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<i>Attorney Docket No.</i>	ALI-001CIP1CIP1
<i>First Inventor</i>	Richard Lee Drysdale
<i>Title</i>	COMPONENT PROTECTIVE OVERMOL...
<i>Express Mail Label No.</i>	EG 551122656 US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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1. ☐ **Fee Transmittal Form (e.g., PTO/SB/17)**
2. ☐ **Applicant claims small entity status.**
See 37 CFR 1.27.
3. ☒ **Specification** [Total Pages 34]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a)).
4. ☒ **Drawing(s) (35 U.S.C. 113)** [Total Sheets 12]
5. **Oath or Declaration** [Total Sheets]
- a. ☐ Newly executed (original or copy)
- b. ☐ A copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☒ **Application Data Sheet.** See 37 CFR 1.76
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Name of Assignee _____

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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 13/158,416

Prior application information: Examiner Unknown Art Unit: Unknown

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This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

APPLICATION FOR UNITED STATES PATENT
COMPONENT PROTECTIVE OVERMOLDING USING
PROTECTIVE EXTERNAL COATINGS

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**COMPONENT PROTECTIVE OVERMOLDING USING
PROTECTIVE EXTERNAL COATINGS**

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. Patent Application No.
5 13/158,416, filed June 11, 2011 (Attorney Docket No.: ALI-001CIP1), entitled
“Component Protective Overmolding,” which is a continuation-in-part of U.S. Patent
Application No. 13/158,372, filed June 10, 2011 (Attorney Docket No.: ALI-001),
entitled “Component Protective Overmolding,” all of which are hereby incorporated by
reference in entirety for all purposes.

10

FIELD

[0002] The present invention relates generally to electrical and electronic hardware,
computer software, wired and wireless network communications, and computing devices.
More specifically, techniques for component protective overmolding using protective
external coatings are described.

15

BACKGROUND

[0003] With the advent of greater computing capabilities in smaller mobile form
factors and an increasing number of applications (i.e., computer and Internet software or
programs) for different uses, consumers (i.e., users) have access to large amounts of data,
personal or otherwise. Information and data are often readily available, but poorly
20 captured using conventional data capture devices. Conventional devices typically lack
capabilities that can record, store, analyze, communicate, or use data in a contextually-
meaningful, comprehensive, and efficient manner. Further, conventional solutions are

often limited to specific individual purposes or uses, demanding that users invest in multiple devices in order to perform different activities (e.g., a sports watch for tracking time and distance, a GPS receiver for monitoring a hike or run, a cyclometer for gathering cycling data, and others). Although a wide range of data and information is
5 available, conventional devices and applications generally fail to provide effective solutions that comprehensively capture data for a given user across numerous disparate activities.

[0004] Some conventional solutions combine a small number of discrete functions. Functionality for data capture, processing, storage, or communication in conventional
10 devices such as a watch or timer with a heart rate monitor or global positioning system ("GPS") receiver are available, but are expensive to manufacture and typically require purchasing multiple, expensive devices. Other conventional solutions for combining data capture facilities often present numerous design and manufacturing problems such as size specifications, materials requirements, lowered tolerances for defects such as pits or holes
15 in coverings for water-resistant or waterproof devices, unreliability, higher failure rates, increased manufacturing time, and expense. Subsequently, conventional devices such as fitness watches, heart rate monitors, GPS-enabled fitness monitors, health monitors (e.g., diabetic blood sugar testing units), digital voice recorders, pedometers, altimeters, and other conventional data capture devices are generally manufactured for conditions that
20 occur in a single or small groupings of activities and, subsequently, are limited in terms of commercial appeal to consumers.

[0005] Generally, if the number of data inputs accessible by conventional data capture devices increases, there is a corresponding rise in design and manufacturing requirements and device size that results in significant consumer expense and/or decreased consumer appeal, which eventually becomes prohibitive to both investment and commercialization. Still further, conventional manufacturing techniques are often limited and ineffective at meeting increased requirements to protect sensitive hardware, circuitry, and other components that are susceptible to damage, but which are required to perform various data capture activities. As a conventional example, sensitive electronic components such as printed circuit board assemblies ("PCBA"), sensors, and computer memory (hereafter "memory") can be significantly damaged or destroyed during manufacturing processes where protective overmoldings or layers of material occurs using techniques such as injection molding, cold molding, and others. Damaged or destroyed items subsequently raises the cost of goods sold and can deter not only investment and commercialization, but also innovation in data capture and analysis technologies, which are highly compelling fields of opportunity.

[0006] Thus, what is needed is a solution for efficiently manufacturing devices without the limitations of conventional techniques.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Various embodiments or examples (“examples”) are disclosed in the following detailed description and the accompanying drawings:

[0008] FIG. 1 illustrates a cross-sectional view of an exemplary process for providing
5 protective material in component protective overmolding;

[0009] FIG. 2 illustrates another cross-sectional view of an exemplary process for providing protective material in component protective overmolding;

[0010] FIG. 3 illustrates a cross-sectional view of an exemplary process for forming an inner molding in component protective overmolding;

10 [0011] FIG. 4 illustrates another cross-sectional view of an exemplary process for forming an outer molding in component protective overmolding;

[0012] FIG. 5A illustrates an exemplary design applied during component protective overmolding;

[0013] FIG. 5B illustrates another exemplary design applied during component
15 protective overmolding;

[0014] FIG. 5C illustrates a further exemplary design applied during component protective overmolding;

[0015] FIG. 6A illustrates an exemplary process for component protective overmolding;

20 [0016] FIG. 6B illustrates an alternative exemplary process for component protective overmolding;

[0017] FIG. 6C illustrates another alternative exemplary process for component protective overmolding;

[0018] FIG. 6D illustrates yet another alternative exemplary process for component protective overmolding;

5 [0019] FIG. 7 illustrates a view of an exemplary data-capable strapband configured to receive overmolding;

[0020] FIG. 8 illustrates a view of an exemplary data-capable strapband having a first molding;

[0021] FIG. 9 illustrates a view of an exemplary data-capable strapband having a
10 second molding;

[0022] FIG. 10 illustrates an exemplary process for component protective overmolding using protective external coatings;

[0023] FIG. 11 illustrates an alternative exemplary process for component protective overmolding using protective external coatings; and

15 [0024] FIG. 12 illustrates another alternative exemplary process for component protective overmolding using protective external coatings.

DETAILED DESCRIPTION

[0025] Various embodiments or examples may be implemented in numerous ways, including as a system, a process, an apparatus, a user interface, or a series of program instructions on a computer readable medium such as a computer readable storage medium or a computer network where the program instructions are sent over optical, electronic, or wireless communication links. In general, operations of disclosed processes may be performed in an arbitrary order, unless otherwise provided in the claims.

[0026] A detailed description of one or more examples is provided below along with accompanying figures. The detailed description is provided in connection with such examples, but is not limited to any particular example. The scope is limited only by the claims and numerous alternatives, modifications, and equivalents are encompassed. Numerous specific details are set forth in the following description in order to provide a thorough understanding. These details are provided for the purpose of example and the described techniques may be practiced according to the claims without some or all of these specific details. For clarity, technical material that is known in the technical fields related to the examples has not been described in detail to avoid unnecessarily obscuring the description.

[0027] FIG. 1 illustrates a cross-sectional view of an exemplary process for providing protective material in data-capable strapband overmolding. Here, device 100 includes framework 102, elements 104-106, and covering 108. In some examples, framework 102 may be referred to interchangeably as a substrate, wafer, board (printed, unprinted, or otherwise), or other surface upon which elements 104-106 may be mounted, placed, or

otherwise fixed. The type and configuration of elements may be varied and are not limited to any given type of electrical, electronic, or mechanical component. For example, element 104 may be implemented as a microvibrator or motor configured to provide a vibratory signal for an alarm or other indicator. Element 104 may also be a
5 printed circuit board assembly ("PCBA"), logic, processor, microprocessor, memory (e.g., solid state, RAM, ROM, DRAM, SDRAM, or others), or other computing element and is not limited to any specific type of component. Further, element 104 may be coupled electrically or electronically to element 106, which may also be an electrical, electronic, or mechanical component that can be placed on framework 102. When placed
10 on framework 102, elements 104-106 may be fixed using various techniques, including adhesives, mechanical fixing structures (e.g., posts and holes), or others, without limitation.

[0028] As shown, covering 108 may be placed over element 104 in order to protect the latter from damage resulting from the application of subsequent layers, coverings,
15 moldings, or other protective material, regardless of environmental conditions (e.g., temperature, pressure, thickness, and others). As shown, element 104 is covered by covering 108 and element 106 is uncovered. However, other protective materials may be used to cover element 106. In still other examples, protective materials such as covering 108 may not be used if elements 104 or 106 are manufactured to resist the formation,
20 deposit, layering, or covering of other protective materials at various temperatures, pressures, or other atmospheric conditions. In other examples, device 100 and the above-described elements may be varied and are not limited to those shown and described.

[0029] FIG. 2 illustrates another cross-sectional view of an exemplary process for providing protective material in data-capable strapband overmolding. Here, device 200 includes framework 102, elements 104-106, covering 108, syringe 202, arrows 204-206, and protective coating 208. In some examples, covering 108 and protective coating 208
5 may be referred to as “protective material” interchangeably and without limitation. As shown, like numbered elements shown in this drawing and others may refer to the same or a substantially similar element previously described.

[0030] In some examples, an applicator (e.g., syringe 202) may be used to selectively apply protective coating 208 to cover as a protective layer over element 106. As used
10 herein, “selectively applying” may refer to the application, placement, positioning, formation, deposition, growth, or the like, of protective material to one, some, all, or none of any underlying elements (e.g., elements 104-106). In some examples, “protective material” may also be used interchangeably with “protective layer,” “covering,” “housing,” or “structure” regardless of the composition of material or matter used,
15 without limitation. In other words, covering 108 and protective coating 208 may each be referred to as “protective material” and used to protect underlying elements (e.g., elements 104-106 (FIG. 1)) as described herein.

[0031] When the plunger of syringe 202 is depressed in the direction of arrow 204, protective coating 208 is forced through applicator tip 210 and applied as a protective
20 layer over element 106. As an example, protective coating 208 may be applied at substantially atmospheric pressure by applying 1-2 psi of pressure to the plunger of syringe 202. When applied, protective coating 208 may be, for example, an ultraviolet

(“UV”) curable adhesive or other material. In other words, when protective coating 208 is applied (i.e., layered over element 106) and exposed to ultraviolet radiation (or other curing conditions) at levels similar to those found in natural sunlight or artificial light, it coalesces and hardens into a covering that prevents the underlying element (e.g., element 5 106) from being damaged when other protective materials or layers are applied such as those shown and described below. Exemplary types of protective coating 208 may include coatings, adhesives, gels, liquids, or any other type of material that hardens to protect, prevent, minimize, or otherwise aid in avoiding damage to a protected element. Examples of UV curable coatings include Loctite® coatings produced by Henkel & Co 10 AG of Dusseldorf, Germany such as, for example, Loctite® 5083 curable coating. Other types of curable coatings, in addition to those that are UV curable, may be used to protect underlying elements without limitation or restriction to any given type.

[0032] In some examples, protective material such as Loctite® or others may be applied selectively to one, some, or all electrical, electronic, mechanical, or other 15 elements. Protective coating 208 may also be applied in different environmental conditions (e.g., atmospheric pressure, under vacuum, in a molding cavity or chamber, within a deposition chamber, or the like) and is not limited to the examples shown and described. As shown, protective coating 208 has been selectively applied to element 106, but not element 104, the latter of which is being protected by covering 108. As an 20 alternative, covering 108 may be used as protective material in the form of an enclosure or physical structure that is used to protect an underlying element. As described herein, protective coating 208 may be selectively applied by determining whether sensitive

components, parts, or other elements ("elements") are susceptible to damage or destruction from subsequent processes, for example, to deposit additional protective layers, such as those described in greater detail below. In other examples, device 200 and the above-described elements may be varied in function, structure, configuration,

5 implementation, or other aspects and are not limited to those provided.

[0033] FIG. 3 illustrates a cross-sectional view of an exemplary process for forming an inner molding in data-capable strapband overmolding. Here, device 300 includes framework 102, elements 104-106, covering 108, syringe 202, arrows 204-206, protective coating 208, mold cavity 302, nozzle 304, arrows 306-310, and inner molding

10 312. In some examples, framework 102 and elements 104-106 having selectively applied protective coating 208 may be placed in mold cavity 302 where another protective layer or coating (e.g., inner molding 312) may be applied from nozzle 304 in the direction of arrows 306-310. Types of materials that may be used for inner molding 312 include plastics, thermoplastics, thermoplastic elastomers, polymers, elastomers, or any other
15 organic or inorganic material that can molded in mold cavity 302. As shown, mold cavity 302 may be implemented using a variety of molding techniques. For example, an injection molding machine may be used to inject a thermoplastic polymer elastomer ("TPE") into mold cavity 302. When injected under temperature (e.g., 400 to 460 degrees Fahrenheit) and pressure (e.g., 200 to 600 psi, but which may be adjusted to
20 higher or lower pressure, without limitation), inner molding 208 forms a protective layer around framework 102, elements 104-106, covering 108, protective coating 208, providing a layer of additional protective material (e.g., inner molding 312), which may

completely or incompletely surround an object (e.g., framework 102). In some examples, inner molding 312 may be formed to provide a watertight or hermetic seal around framework 102 and elements 104-106. Types of materials that may be used as inner molding 312 include TPEs such as Versaflex 9545-1 as manufactured by PolyOne Corporation of McHenry, Illinois. Other types of materials such as epoxies, polymers, elastomers, thermoplastics, thermoplastic polymers, thermoplastic polymer elastomers, and others may be used to form inner molding 312, without limitation to a specific material. In other examples, device 300 and the above-described elements may be varied in function, structure, configuration, implementation, or other aspects and are not limited to those provided.

[0034] FIG. 4 illustrates another cross-sectional view of an exemplary process for forming an outer molding in data-capable strapband overmolding. Here, device 400 includes framework 102, elements 104-106, covering 108, syringe 202, arrows 204-206, protective coating 208, inner molding 312, mold cavity 402, nozzle 404, arrows 406-410, and outer molding 412. In some examples, mold cavity 402 may be the same or different from that described above in connection with FIG. 3. In other words, mold cavity 402 may be the same mold cavity as mold cavity 302, but which is used to injection mold outer molding 412. As shown, framework 102, elements 104-106, protective coating 208, and inner molding 312 are placed in mold cavity 402. Material (e.g., TPE) may be injected through nozzle 404 in the direction of arrows 406-410 into mold cavity 402 in order to form outer molding 412. Once formed, sprue or other extraneous material may be present in inner molding 312 or outer molding 412, which may be removed after

device 400 is taken out of molding cavity 402. A visual inspection, in some examples, may be performed to determine if defects are present in either inner molding 312 or outer molding 412. If defects are found in outer molding 412, then removal may occur and a new outer molding may be formed using mold cavity 402. The inspection and, if defects are found, the removal of outer molding 412 allows for higher quality moldings to be developed at a lower cost without requiring the discarding of sensitive, expensive electronics. Outer molding 412, in some examples, may also be used to provide surface ornamentation to a given object. The use of thermoplastics or TPE material may be used to form outer molding 412 and to provide material in which a surface texture, design, or pattern may be imprinted, contoured, or otherwise formed. In so doing, various types of patterns, designs, or textures may be formed of various types. For example, miniature "hills" and "valleys" may be formed in the protective material of outer molding 412 in order to produce a "denim" feel or texture to a given object. Examples of different patterns for outer molding 412 may be found in FIGs. 5A-5C, as shown by patterns 502, 512, and 522, respectively. Patterns 502, 512, and 522 are provided for purposes of illustration and are neither limiting nor restrictive with regard to the types, patterns, designs, or textures of surface ornamentation that may be applied to outer molding 412, as described herein. Protective material (e.g., TPE) injected into mold cavity 402 may be used to form these patterns. Various types of injection molding processes and equipment may be used and are not limited to any specific type, make, manufacture, model, or other specification.

[0035] Referring back to FIG. 4, the use of the described techniques allows for more precise tolerances in forming moldings that are form-fitting to various types of devices. Still further, the use of the above-described techniques also allows for relatively small devices having sensitive electronics to be subjected to harsh environmental conditions during molding processes in order to form protective layers (e.g., inner molding 312, outer molding 412) over various types of devices. As shown and described, the disclosed techniques may be used on a variety of devices, without limitation or restriction. In other examples, device 400 and the above-described elements may be varied in function, structure, configuration, implementation, or other aspects and are not limited to those provided.

[0036] FIG. 6A illustrates an exemplary process for component protective overmolding. Here, the start of process 600 includes forming a protective layer on, for example, framework 102 (FIG. 1) (602). In some examples, a protective layer may refer to protective material, layers, or covers such as protective material 108 (FIG. 2) or structures that are formed to protect underlying elements (e.g., covering 108 (FIG. 1)). Examples of material that may be used to form a protective layer include UV curable materials such as those described above, including coatings, adhesives, liquids, gels, and others that cure when exposed to ultraviolet radiation in various concentrations and exposure levels without limitation. After forming a protective layer (e.g., protective coating 208), an inner molding (e.g., inner molding 312 (FIG. 3)) is formed (604). After forming an inner molding, a function test is performed to determine whether the inner molding and protective layer have damaged the underlying item (606). In some

examples, a function test may be performed as part of an inspection and include applying an electrical current to an underlying electronic element to identify proper voltage or current flow or other parameters that indicate whether damage has occurred during the formation of a protective layer, an inner molding, or, in other examples, an outer molding. Inspections may be performed at various stages of the manufacturing process in order to identify defects early and reduce costs incurred with re-applying protective layers or moldings. In other examples, a function test may be performed to determine whether the inner molding has sufficiently coated desired underlying items (e.g., electrical, electronic, mechanical, or any structure or elements thereof that are being protected from damage using one or more moldings). In still further examples, the function test may be performed to determine whether the formation of an inner molding damaged underlying items that were previously protected by the formation of protective layer, the latter of which may be performed outside of a mold device or cavity (e.g., mold cavity 302 (FIG. 3) or mold cavity 402 (FIG. 4)) at room temperature and/or atmospheric conditions, including atmospheric or ambient temperatures, pressures, and humidity levels, without limitation.

[0037] In some examples, a determination is made as to whether a function test is passed or failed (608). Here, if an item having a protective layer and an inner molding fails to pass, the item is rejected and the process ends (610). Alternatively, if an item (e.g., framework 102 and elements 106-108 (FIG. 1)) fails to pass a function test due to the presence of one or more defects, the inner molding may be removed and re-applied. In other examples, the underlying item may be rejected (i.e., destroyed, recycled, or

otherwise removed from a lot of items that have successfully passed a function test). If a determination is made that a function test has passed as part of an inspection, then an outer molding is formed over the inner molding and protective layer (612).

[0038] In some examples, the protective layer, inner molding, and outer molding may be selectively, partially, or completely applied to a given item. As described here, an outer molding may also be configured to completely enclose or encase an underlying item in order to protect the inner molding, the protective layer, and any elements from damage. Further, outer molding may be used to form patterns, designs, or other surface features or contours for usable, functional, or aesthetic purposes. As shown here, after an outer molding is formed, a final test is performed to determine whether defects are present or the formation of the outer molding met desired parameters (e.g., did the outer molding fully coat an item, were any underlying items damaged, and the like) (614). In some examples, a final test may also be a function test, as described above. In other examples, a final test may also evaluate an item coated with an outer molding for other purposes. If the final test is not passed, then the item may be rejected and, in some examples, the outer molding may be removed and re-applied (i.e., re-formed) (610). In other example, a failed final test may also result in the item being rejected and destroyed, recycled, or otherwise handled as unacceptable. Finally, after a final test is performed a visual inspection may be performed to determine whether an item has been covered by the formed outer molding as desired (618). In other examples, process 600 may be implemented differently in the order, function, configuration, or other aspects described and is not limited to the examples shown and described above.

[0039] FIG. 6B illustrates an alternative exemplary process for component protective overmolding. Here, process 620 beings be selectively applying protective material (e.g., protective coating 208 (FIG. 2)) to one or more elements (e.g., electrical, electronic, mechanical, structural, or others) (622). In some examples, selectively applying

5 protective material may include manually using an applicator (e.g., syringe 202 (FIG. 2) or any other type of instrument, device, tool, or implement used to apply protective material) to deposit a layer, covering, coating, or the like over a desired element. In other examples, selectively applying may also include the application of protective material to one, some, all, or none of the elements present on a given item. In other words,

10 selectively applying protective material may be performed uniformly or non-uniformly without limitation. Types of protective materials may include curable or non-curable materials such as those described above, including UV-curable coatings that, when exposed to ultraviolet radiation, cure. In other examples, other types of coatings may be used that, when exposed to artificial or man-made conditions, cure. Still further, other

15 types of coatings may be used to form a protective layer (i.e., protective material) over sensitive elements that may require the combination of two or more materials, chemicals, or compounds, such as epoxies, polymers, elastomers, and the like, without limitation.

[0040] Here, after selectively applying protective material an inner molding is formed over a framework, associated elements (i.e., elements coupled to the framework), and the

20 previously, selectively-applied protective material (624). As an example of a framework, a "strapband" or, as used herein, "band" may refer to a wearable device that is configured for various data capture, analysis, communication, and other purposes. In some

examples, a band may refer to a wearable personal data capture device that, when worn, may be used to record and store various types of data associated with a given person's motion, behavior, and physical characteristics (e.g., body temperature, salinity, blood sugar, heart rate, respiration rate, movement, and many others, without limitation). In other examples, a band may be implemented using hardware, software, and firmware, where application-specific programs may be downloaded onto a memory that is included as an element and protected using the described overmolding processes. A band may be implemented as described below in connection with FIGs. 7-9.

[0041] Referring back to FIG. 6B, an outer molding is formed over the inner molding, the framework, its elements, and the protective material (626). After the outer molding is formed, an inspection of the outer molding is performed to determine whether a defect is present (628). As used herein, an inspection may refer to any type of process (e.g., automatic, semi-automatic, manual, robotic, visual, structural, radiological, electrical, or others) that is used to determine whether a defect is present. In some examples, an inspection may include one or more function (i.e., functional) tests to determine whether a coated (i.e., item receiving protective material and protective layers or coatings) has been damaged during the layering process. If a defect (e.g., a damaged item or defective molding) is found, then the outer molding is removed (632) and formed again over the inner molding, framework, elements, and protective material (626). If no defect is found, then the process ends. Examples of materials that may be used for moldings (e.g., inner molding, outer molding) in process 620 include plastics, thermoplastics, thermoplastic elastomers, polymers, thermoplastic polymer elastomers,

epoxies, alloys, metals, or any other type of organic or synthetic material, without limitation. In other examples, process 620 may be implemented differently in the order, function, configuration, or other aspects provided and is not limited to the examples shown and described above.

- 5 [0042] FIG. 6C illustrates another alternative exemplary process for component protective overmolding. Here, an alternative 2-stage process 640 for component protective overmolding may be performed. First, selective application of a securing coating over components placed on, for example, a framework, may be performed (642). As used herein, a securing coating may refer to any type of protective material, layer,
- 10 cover, structure, liquid, gel, solid, or the like that is placed substantially (i.e., partially or entirely) over an item in order to prevent damage from later stages of a manufacturing process (e.g., introduction into mold cavity 302 (FIG. 3) or mold cavity 402 (FIG. 4) in which rigorous temperatures, pressures, or other environmental conditions are created in order to apply other coated materials. Further, due to the size and relatively sensitive
- 15 operating, manufacturing, and performance characteristics of various electrical, electronic, mechanical, or structural features (e.g., microprocessors, solid state computer memories, control logic and circuitry, microvibrators, motors, motor controllers, batteries, battery modules, battery controllers, and the like), the addition of protective material can prevent inadvertent damage and increased costs occurring during the
- 20 manufacturing of finished products. As an example, consumer electronics devices receiving both aesthetic and functional protective overmoldings (i.e., moldings) can be expensive to manufacture because, for each damage underlying electronic component, an

entire unit must be discarded. However, by using the described techniques to protect sensitive and expensive elements by replacing moldings as opposed to entire partially-finished items, manufacturing costs can be significantly reduced, thus increasing profit margins and incentives for individuals and enterprises to commercially invest in

5 manufacturing devices that can advantageously capture, analyze, use, communicate (via wired or wireless data communication facilities (e.g., network interface cards (NICs), wireless radios using various types of wireless data communication protocols for short, medium, and long-range communication (e.g., Bluetooth™, ZigBee, ANT™, WiFi, WiMax, and others), and the like), or otherwise use valuable and abundant personal data.

10 As an example of these types of devices, a strapband or band may be a wearable device that is configured to capture data such as that described above. Sensitive elements of various sizes and shapes may be protected from damage occurring during later stages of protective overmolding (i.e., application of protective layers, covers, molds, or the like) using the described techniques.

15 [0043] Here, after applying a securing coating, another molding may be formed over the securing coating, band, and components (e.g., elements) (644). As described here and above, the application of one or more moldings may be performed to both secure and protect underlying items (e.g., components or elements) of a finished product for various conditions such as use, weather, shock, temperature, or other environmental conditions to
20 which finished products (e.g., band) may be subjected. In other examples, more, fewer, or different steps may be implemented as part of process 620 including, for example, a single-stage process involving the application of one or more protective layers (e.g.,

housings, coverings, securing coatings, coatings, moldings, or the like). The functions, operations, or processes performed during a single or multi-stage or step process may be varied, without limitation, to include more, fewer, or different types of sub-processes apart from those shown and described. Alternatively, more steps in process 620 may be implemented are not limited to any of the examples shown and described. In still other examples, process 620 may be implemented differently in the order, function, configuration, or other aspects provided and is not limited to the examples shown and described above.

[0044] FIG. 6D illustrates yet another alternative exemplary process for component protective overmolding. Here, process 650 begins by placing one or more elements on a framework (652). In some examples, the one or more elements may be placed on a part of a framework (not shown) or other support structure configured to provide a substrate or base support. Once placed, the elements are coated using a curable material (654). As an example of a curable material, Loctite® 5083 UV curable coating may be layered (i.e., deposited, poured, injected, layered, or otherwise covered) over the elements and the framework. The curable material may be comprehensively, universally, uniformly, semi-uniformly, irregularly, or selectively placed so that some elements are covered while others are left uncovered. Reasons for selectively applying the curable coating may include other elements being protected from damage during the molding process using physical structures (e.g., covering 108) and yet others being manufactured to withstand the environmental conditions (e.g., temperature ranges between 400 and 460 degrees

Fahrenheit and injection nozzle pressures of 200 to 600 pounds per square inch (psi)) of molding cavity 302 (FIG. 3) or 402 (FIG. 4) without using protective material.

[0045] After securing elements to a framework using curable material (e.g., UV curable coating, which may also be replaced with other types of curable coating, without
5 limitation or restriction to any specific type), an inspection may be performed to determine whether there are any defects, gaps, openings, or other susceptibilities that can be anticipated before applying the first or inner molding (656). After performing an inspection on the curable coating, one or more moldings may be formed over the curable material (i.e., coating), framework, and elements (658) after which an inspection may be
10 performed to determine whether there are defects in the molding(s) (660). During the inspection, a determination is made as to whether a defect has been found in one or more moldings (662). If a defect is found, the defective molding is removed (664) and another molding may be reformed over the curable material, framework, and elements (666). By enabling a defective molding to be replaced without requiring the discard of a framework
15 and its associated elements (e.g., electrical and electronic components such as microprocessors, processors, data storage and computer memory, sensors (e.g., accelerometers, motion/audio/light sensors, velocimeters, pedometers, altimeters, heart rate monitors, barometers, chemical/protein detectors, and others, without limitation), mechanical and structural features or functionality), substantial costs can be saved thus
20 enabling devices to be produced at lower costs to consumers and business alike. In other examples, process 650 may be implemented differently in the order, function,

configuration, or other aspects provided and is not limited to the examples shown and described above.

[0046] FIG. 7 illustrates a side view of an exemplary data-capable strapband configured to receive overmolding. Here, band 700 includes framework 702, covering 704, flexible circuit 706, covering 708, motor 710, coverings 714-724, analog audio plug 726, accessory 728, control housing 734, control 736, and flexible circuit 738. In some examples, band 700 is shown with various elements (i.e., covering 704, flexible circuit 706, covering 708, motor 710, coverings 714-724, analog audio plug 726, accessory 728, control housing 734, control 736, and flexible circuit 738) coupled to framework 702.

10 Coverings 708, 714-724 and control housing 734 may be configured to protect various types of elements, which may be electrical, electronic, mechanical, structural, or of another type, without limitation. For example, covering 708 may be used to protect a battery and power management module from protective material formed around band 700 during an injection molding operation. As another example, housing 704 may be used to protect a printed circuit board assembly ("PCBA") from similar damage. Further, control housing 734 may be used to protect various types of user interfaces (e.g., switches, buttons, lights, light-emitting diodes, or other control features and functionality) from damage. In other examples, the elements shown may be varied in quantity, type, manufacturer, specification, function, structure, or other aspects in order to provide data capture, communication, analysis, usage, and other capabilities to band 700, which may be worn by a user around a wrist, arm, leg, ankle, neck or other protrusion or aperture, without restriction. Band 700, in some examples, illustrates an initial unlayered device

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that may be protected using the techniques for protective overmolding as described above.

[0047] FIG. 8 illustrates a view of an exemplary data-capable strapband having a first molding. Here, band 800 includes molding 802, analog audio plug (hereafter “plug”) 804, plug housing 806, button 808, framework 810, control housing 812, and indicator light 814. In some examples, a first protective overmolding (i.e., molding 802) has been applied over band 700 (FIG. 7) and the above-described elements (e.g., covering 704, flexible circuit 706, covering 708, motor 710, coverings 714-724, analog audio plug 726, accessory 728, control housing 734, control 736, and flexible circuit 738) leaving some elements partially exposed (e.g., plug 804, plug housing 806, button 808, framework 810, control housing 812, and indicator light 814). However, internal PCBAs, flexible connectors, circuitry, and other sensitive elements have been protectively covered with a first or inner molding that can be configured to further protect band 800 from subsequent moldings formed over band 800 using the above-described techniques. In other examples, the type, configuration, location, shape, design, layout, or other aspects of band 800 may be varied and are not limited to those shown and described. For example, plug 804 may be removed if a wireless communication facility is instead attached to framework 810, thus having a transceiver, logic, and antenna instead being protected by molding 802. As another example, button 808 may be removed and replaced by another control mechanism (e.g., an accelerometer that provides motion data to a processor that, using firmware and/or an application, can identify and resolve different types of motion that band 800 is undergoing), thus enabling molding 802 to be extended more fully, if not

completely, over band 800. In yet other examples, molding 802 may be shaped or formed differently and is not intended to be limited to the specific examples shown and described for purposes of illustration.

[0048] FIG. 9 illustrates a view of an exemplary data-capable strapband having a second molding. Here, band 900 includes molding 902, plug 904, and button 906. As shown another overmolding or protective material has been formed by injection molding, for example, molding 902 over band 900. As another molding or covering layer, molding 902 may also be configured to receive surface designs, raised textures, or patterns, which may be used to add to the commercial appeal of band 900. In some examples, band 900 may be illustrative of a finished data capable strapband (i.e., band 700 (FIG. 7), 800 (FIG. 8) or 900) that may be configured to provide a wide range of electrical, electronic, mechanical, structural, photonic, or other capabilities.

[0049] Here, band 900 may be configured to perform data communication with one or more other data-capable devices (e.g., other bands, computers, networked computers, clients, servers, peers, and the like) using wired or wireless features. For example, a TRRS-type analog audio plug may be used (e.g., plug 904), in connection with firmware and software that allow for the transmission of audio tones to send or receive encoded data, which may be performed using a variety of encoded waveforms and protocols, without limitation. In other examples, plug 904 may be removed and instead replaced with a wireless communication facility that is protected by molding 902. If using a wireless communication facility and protocol, band 900 may communicate with other data-capable devices such as cell phones, smart phones, computers (e.g., desktop, laptop,

notebook, tablet, and the like), computing networks and clouds, and other types of data-capable devices, without limitation. In still other examples, band 900 and the elements described above in connection with FIGs. 1-9, may be varied in type, configuration, function, structure, or other aspects, without limitation to any of the examples shown and
5 described.

[0050] FIG. 10 illustrates an exemplary process for component protective overmolding using protective external coatings. Here, process 1000 includes selectively applying a material (such as those described above) substantially over a framework that is coupled to one or more elements (1002). Selective application of the material, in some
10 examples, may refer to point applications of a material (e.g., an epoxy or other material used to protect an underlying element from being damaged during subsequent deposition, formation, or molding phases of other material). As used herein, a framework may be an internal substrate, wafer, stiffener, or the like, providing both an internal structure for bands 700-900 (FIGs. 7-9) and a structure to which the one or more elements may be
15 mounted or coupled, either directly or indirectly. In some examples, the one or more elements may include any type of electrical, electronic, mechanical, chemical, or other type of device, component, sub-component, mechanism that is configured to receive, transmit, process, or perform a data operation (i.e., "operation") using data gathered from a sensor coupled to bands 700-900. Also, as used herein, "sensory input" may refer to
20 any type, classification, powered or unpowered, of sensor configured to sense data and information regarding the internal or external environment of bands 700-900.

[0051] After selectively applying the material substantially over the framework coupled to one or more elements, a protective layer is molded over the framework, element(s), and selectively-applied material (1004). After molding the protective layer, a coating may be formed over the protective layer (1006). In some examples, the coating is
5 formed to provide a protective property, as described above.

[0052] As used herein, "coating" is to be distinguished from protective coating 208 (FIG. 2) in that the former is used to provide a protective property to the structure to which it is applied. In some examples, the protective property may include protecting bands 700-900 (FIGs. 7-9) from external damage due to shock, wear, immersion (in
10 various types of liquids, including water), temperature, pressure, or other environmental conditions (or lack thereof, including vacuum). In other examples, a protective property may be a characteristic of a coating that, when applied, protects a wearer or users. For example, material used for a coating may include anti-bacterial or medical-grade (i.e., any type of material or combination of materials, synthetic or organic, that have been
15 tested and deemed suitable for biological uses, including those internal and external to organisms or bodies) materials such as TPE, polymers, elastomers, and others. Other protective properties of a coating may include being water-proof, water-resistant, oleophobic, hydrophobic, hardened (i.e., protected from damage due to shock, which may require shock or impact-absorbent materials that distribute kinetic energy when applied
20 via force or pressure), ultraviolet radiation (hereafter "UV")-protective or resistive (i.e., resists color fading), and others, without limitation. Protective properties may refer to any property that protects the framework, elements, material, moldings, coatings, or the

like from either external or internal damage or conditions that could result in damage. In other examples, process 1000 may be implemented differently in the order, function, configuration, or other aspects provided and is not limited to the examples shown and described above.

5 [0053] FIG. 11 illustrates an alternative exemplary process for component protective overmolding using protective external coatings. As an alternative process to those described above, material may be provided (e.g., formed, molded, deposited, sprayed, dipped, applied with a brush (i.e., brushed), or the like) over a structure of a device (1102). In some examples, a device (e.g., bands 700-900 (FIGs. 7-9)) may be configured
10 to perform one or more operations, as described above, using data received from various types and quantities of sensory inputs. As used herein, the material may be applied to secure an element (e.g., a sensor, battery, motor, detector, circuit, or any other type of element, as described above) to a framework or stiffener of a device. Applying material may also refer to the molding of a layer of material over a framework and elements,
15 providing a hermetic or substantially hermetic or waterproof enclosure. In other examples, applying material may refer to the formation of a single or multiple layers of material over a device. After applying the material, a coating is formed over it to provide a protective property, such as those described above (1104). In other examples, process 1100 may be implemented differently in the order, function, configuration, or other
20 aspects described and is not limited to the examples provided above.

[0054] FIG. 12 illustrates another alternative exemplary process for component protective overmolding using protective external coatings. As a further alternative

process to those described above, material is selectively applied over a framework coupled to one or more elements (1202). After applying the material over the framework and coupled element(s), one or more layers (e.g., coatings, such as those described above) are molded to provide a protective property (1204). In other examples, process 1200 may
5 be implemented differently in the order, function, configuration, or other aspects described and is not limited to the examples provided above.

[0055] Although the foregoing examples have been described in some detail for purposes of clarity of understanding, the above-described inventive techniques are not limited to the details provided. There are many alternative ways of implementing the
10 above-described invention techniques. The disclosed examples are illustrative and not restrictive.

What is claimed:

1. A method, comprising:
 - selectively applying a material substantially over a framework configured to
 - 5 be worn and coupled to one or more elements configured to perform an operation using
 - data from one or more sensory inputs;
 - molding a protective layer substantially over the framework and the material,
 - after the material has been selectively applied; and
 - depositing a coating over the protective layer, the coating having a protective
 - 10 property.
2. The method of claim 1, wherein the framework is comprised of a synthetic fiber.
3. The method of claim 1, wherein the framework is formed using carbon fiber.
- 15 4. The method of claim 1, wherein the framework is comprised of one or more
- filaments.
5. The method of claim 1, wherein the framework is formed using a thermoplastic
- 20 elastomer.

6. The method of claim 5, wherein the thermoplastic elastomer comprises polypropylene.

7. The method of claim 1, wherein the coating is anti-bacterial.

5

8. The method of claim 1, wherein the coating is oleophobic

9. The method of claim 1, wherein the coating is configured to protect against ultraviolet radiation.

10

10. The method of claim 1, wherein the coating is hydrophobic.

11. The method of claim 1, wherein the coating is configured to provide a waterproof seal over the framework and the one or more elements.

15

12. A method, comprising:

applying a material over a structure of a device, the device being configured to perform an operation using data from one or more sensory inputs; and

forming a coating over the material, the coating being configured to provide a protective property.

20

13. The method of claim 12, wherein the material is a thermoplastic elastomer.

14. The method of claim 12, wherein the structure is substantially flexible.
15. The method of claim 12, further comprising one or more elements configured to
5 perform the operation using the data from the one or more sensory inputs are mounted on
the structure.
16. The method of claim 12, wherein the protective property is waterproofing.
- 10 17. The method of claim 12, wherein the protective property is water-resisting.
18. The method of claim 12, wherein the protective property is hydrophobic.
19. The method of claim 12, wherein the protective property is oleophobic.
- 15 20. The method of claim 12, wherein the protective property is anti-bacterial.
21. A method, comprising:

selectively applying a material substantially over a framework configured to be worn and to be coupled with one or more elements, the one or more elements being configured to perform an operation using data from one or more sensory inputs; and

molding one or more layers substantially over the framework and the material,
5 after the material has been selectively applied, the one or more layers comprising a coating configured to protect the framework, the one or more elements, and the material and to provide a protective property.

22. The method of claim 21, wherein the material is configured to secure the one or
10 more elements to the framework.

23. The method of claim 21, wherein the material is configured to protect the one or more elements from damage occurring during the molding the one or more layers substantially over the framework.

15

24. The method of claim 21, wherein at least one of the one or more layers is antibacterial.

25. The method of claim 21, wherein at least one of the one or more layers comprises a
20 medical-grade thermoplastic elastomer.

COMPONENT PROTECTIVE OVERMOLDING USING
PROTECTIVE EXTERNAL COATINGS

ABSTRACT

Techniques for component protective overmolding using protective external
5 coatings include applying a material over a structure of a device, the device being
configured to perform an operation using data from one or more sensory inputs, and
forming a coating over the material, the coating being configured to provide a protective
property.

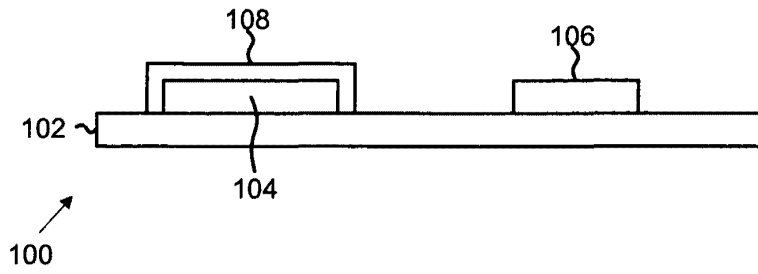


FIG. 1

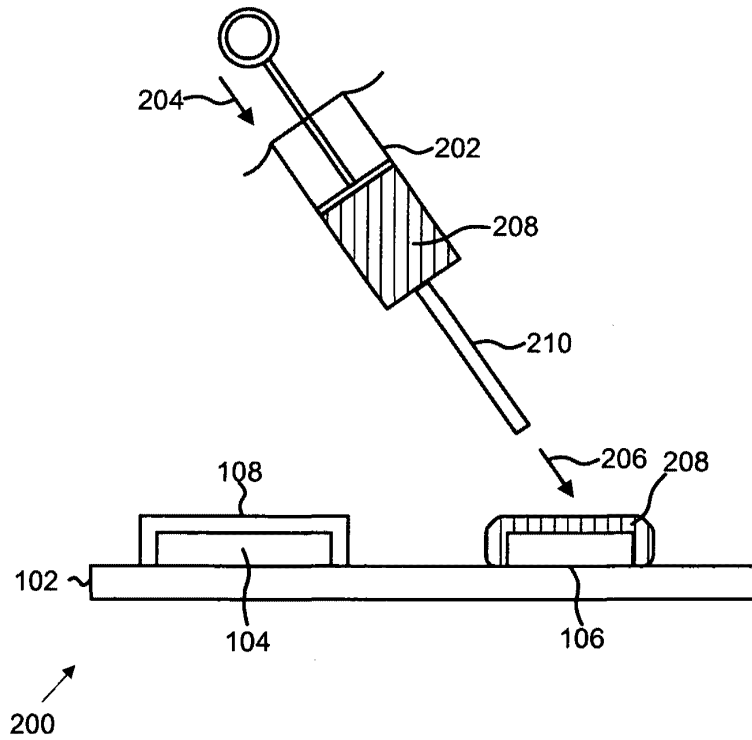


FIG. 2

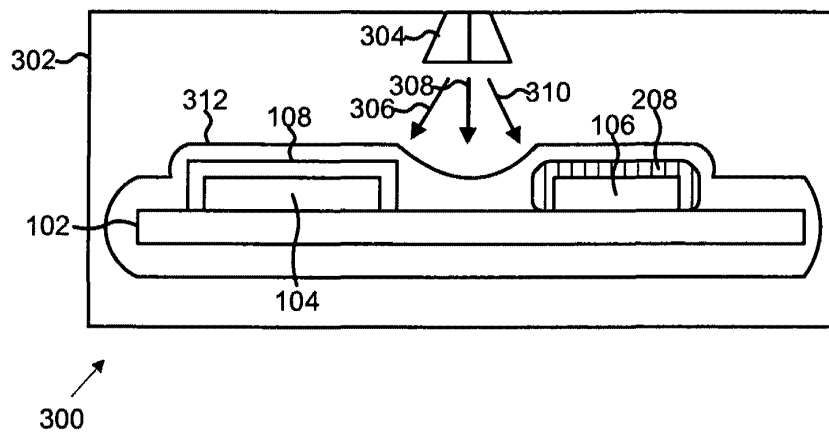


FIG. 3

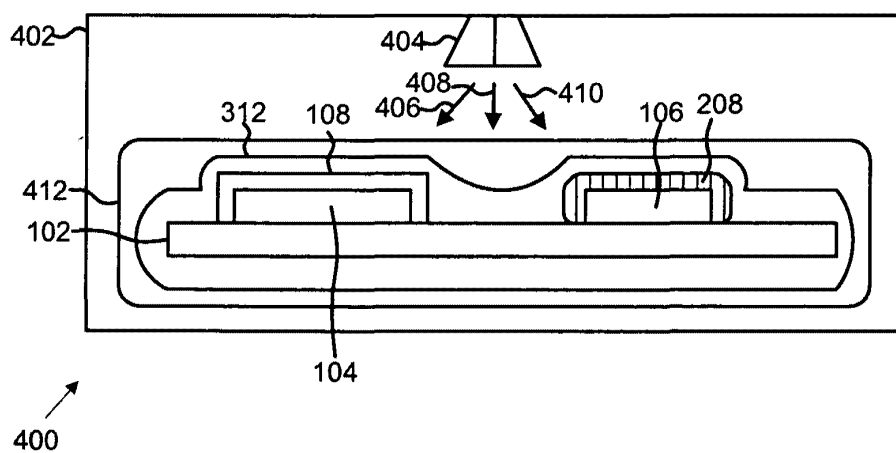


FIG. 4

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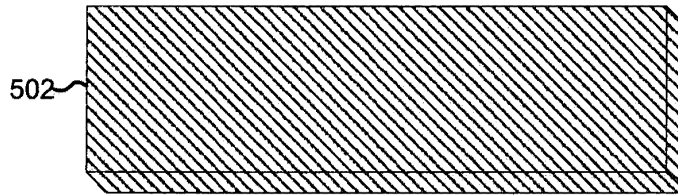


FIG. 5A

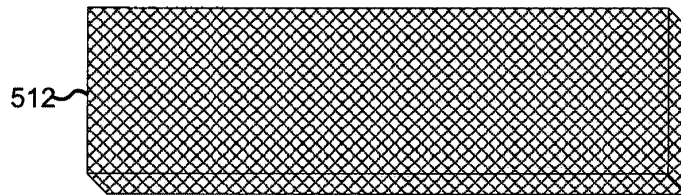


FIG. 5B

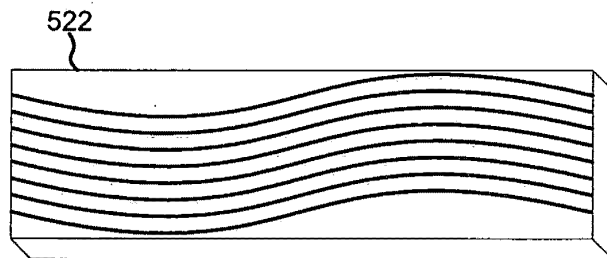
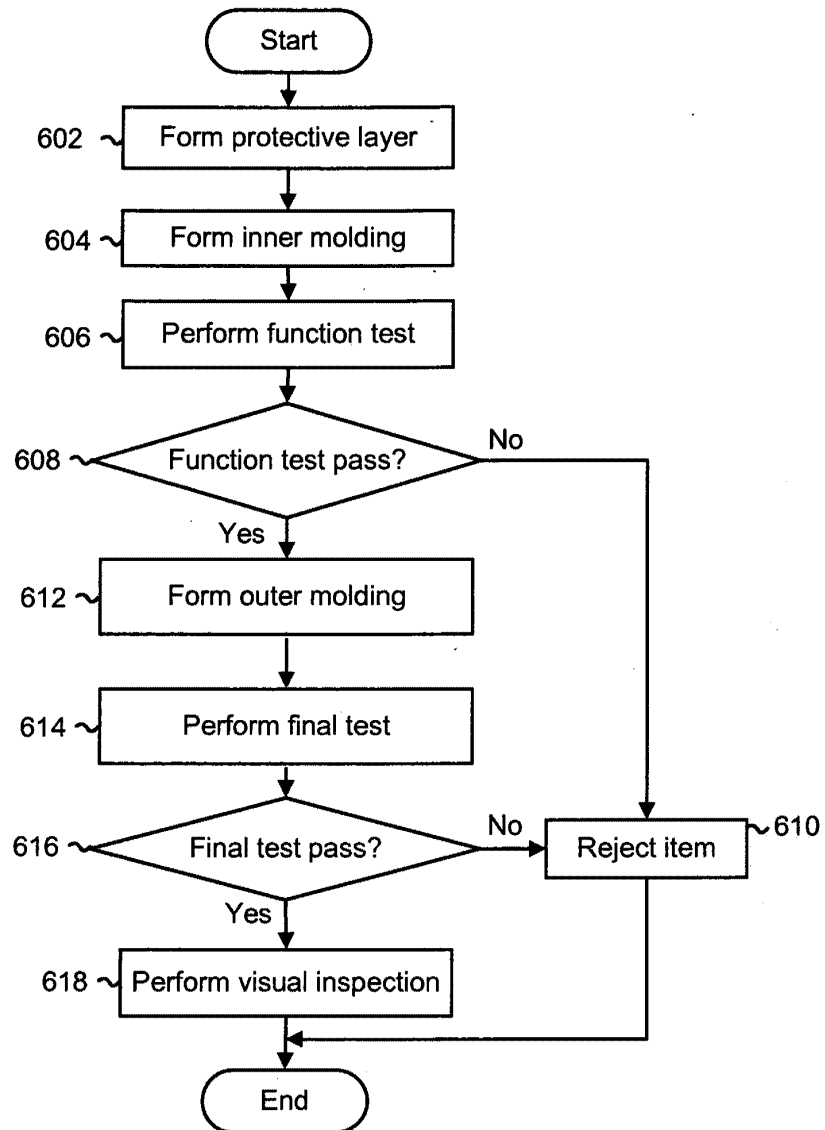
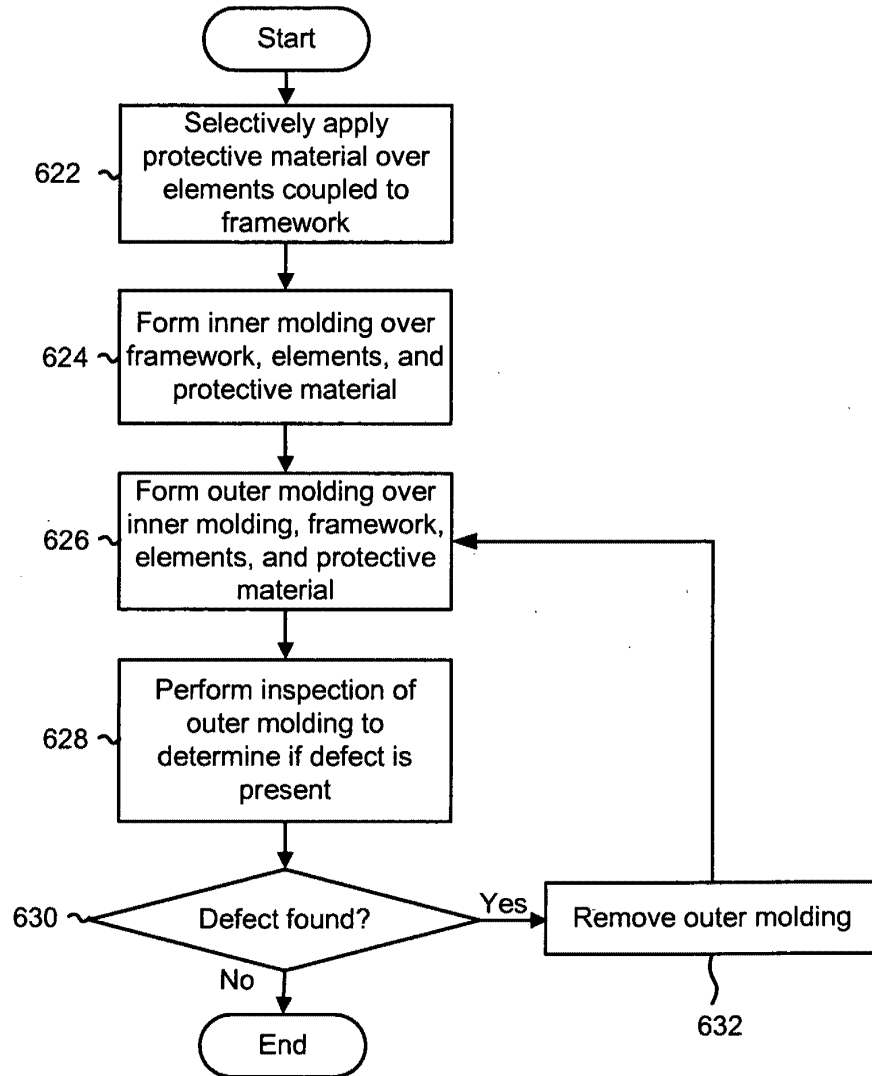


FIG. 5C



600 ↗

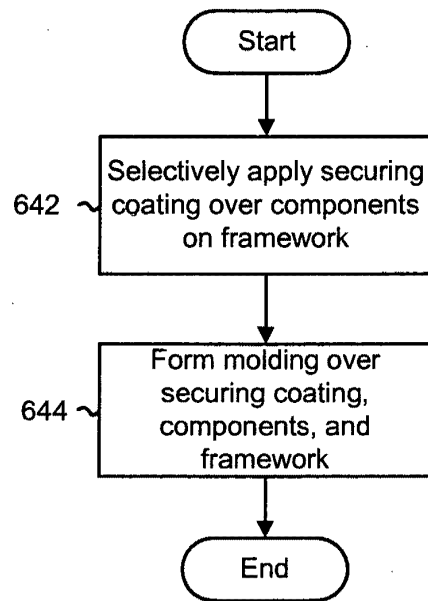
FIG. 6A



620 ↗

FIG. 6B

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640 ↗

FIG. 6C

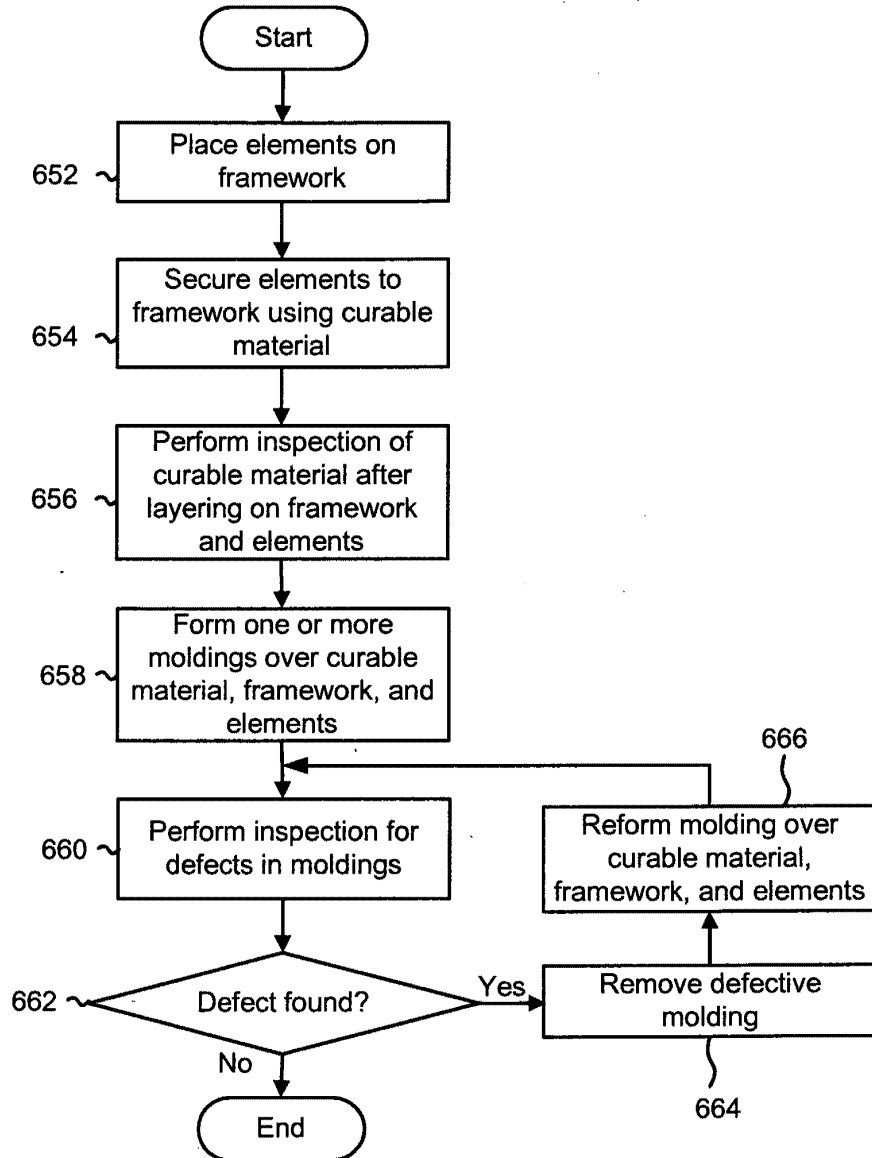


FIG. 6D

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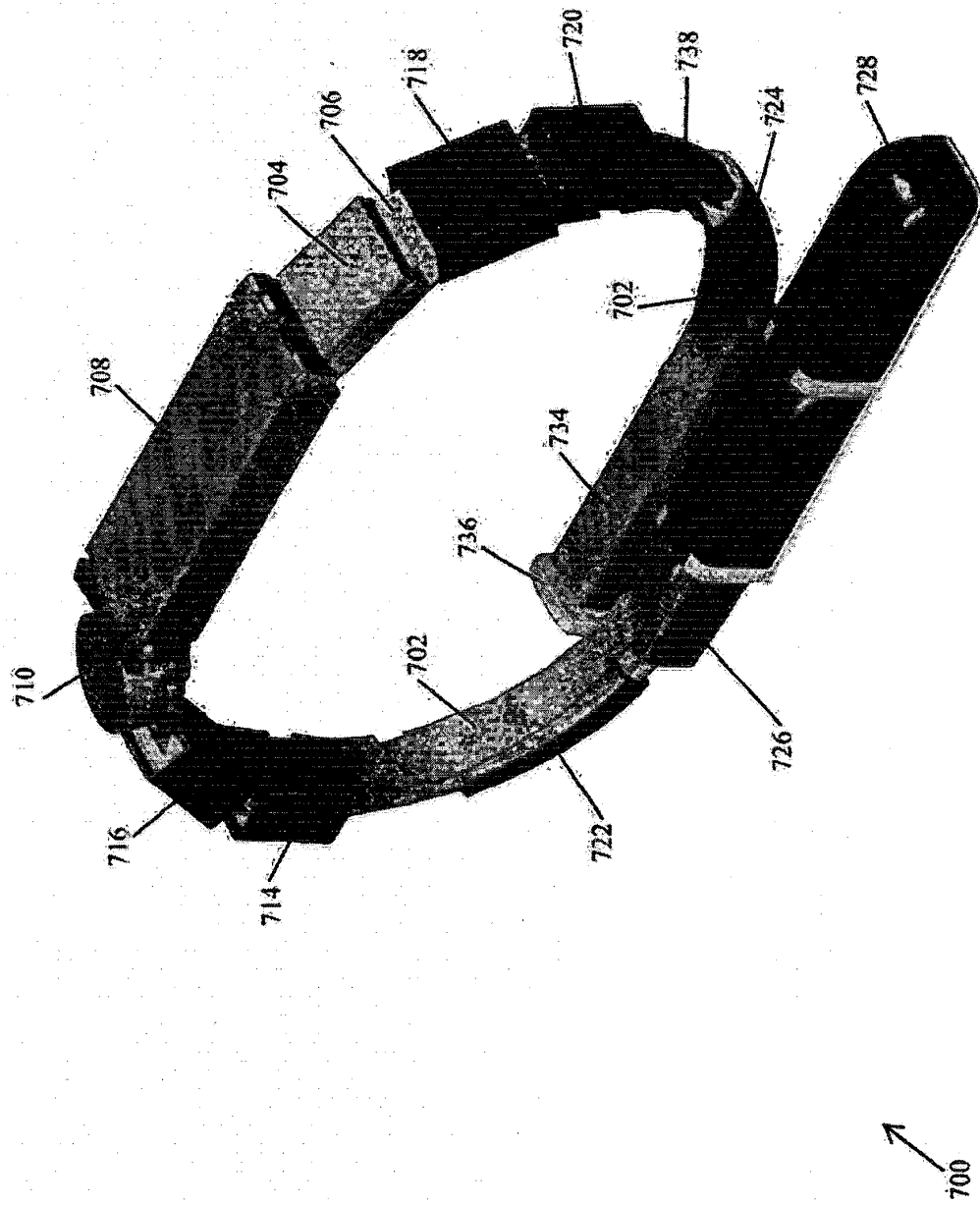


FIG. 7

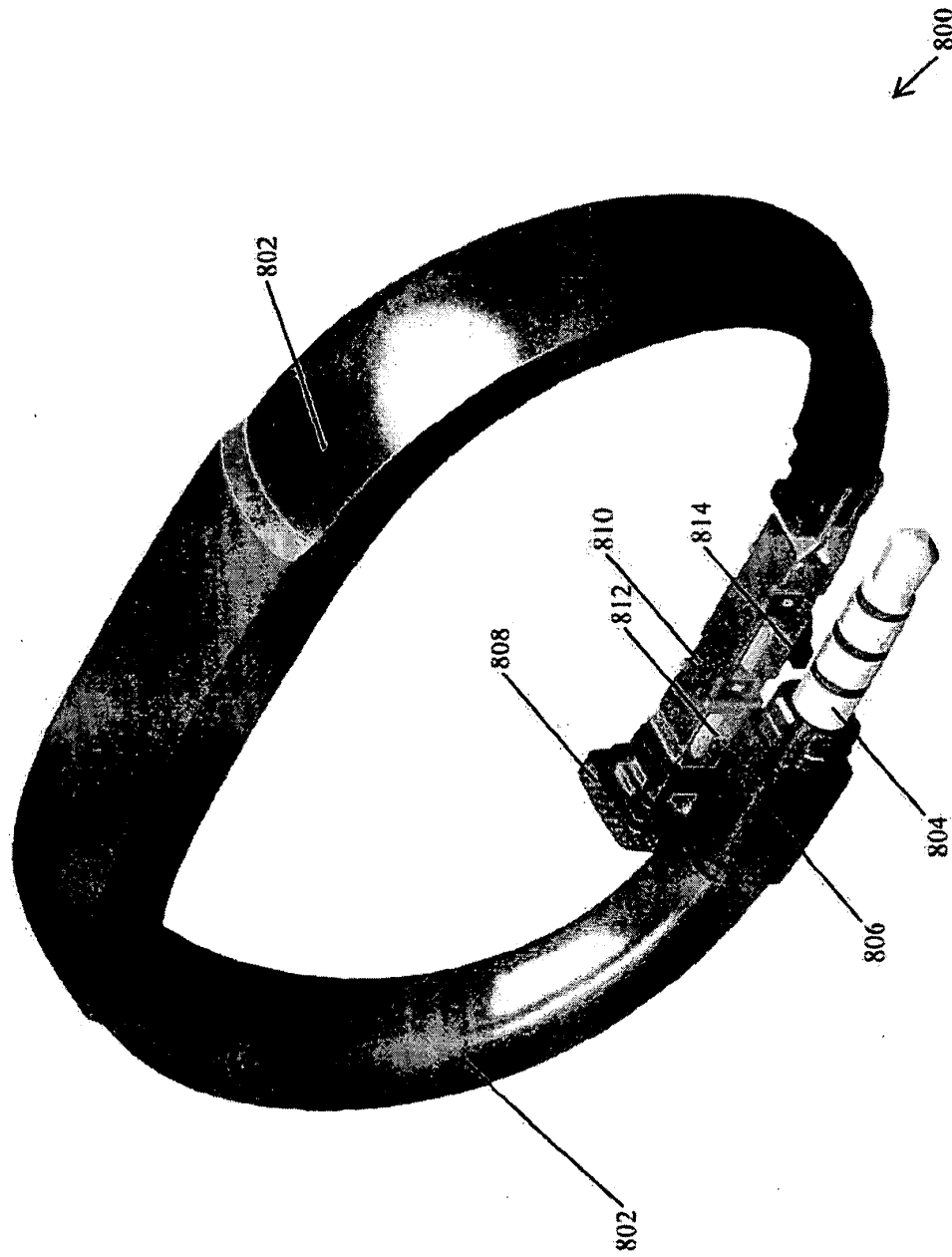


FIG. 8

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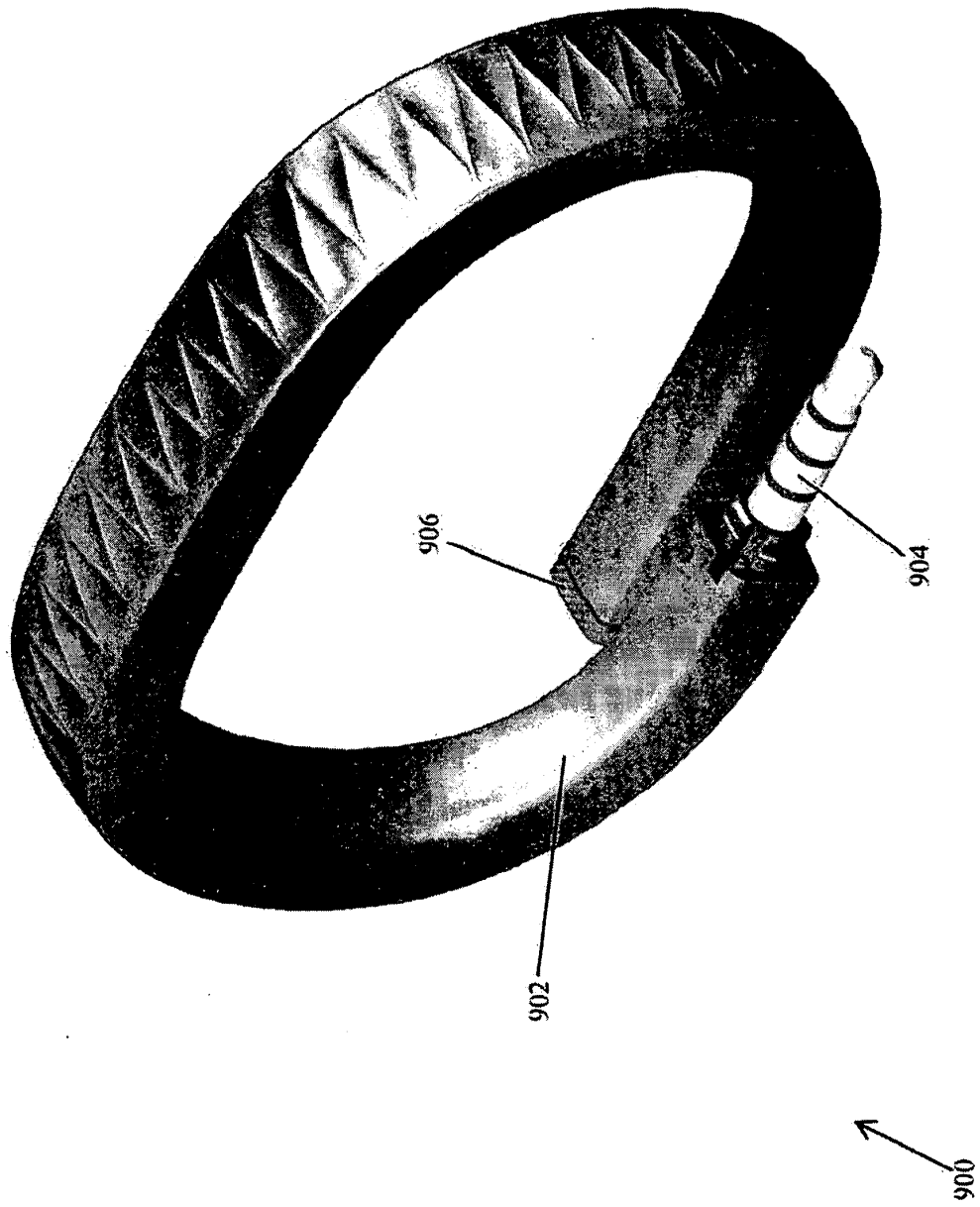


FIG. 9

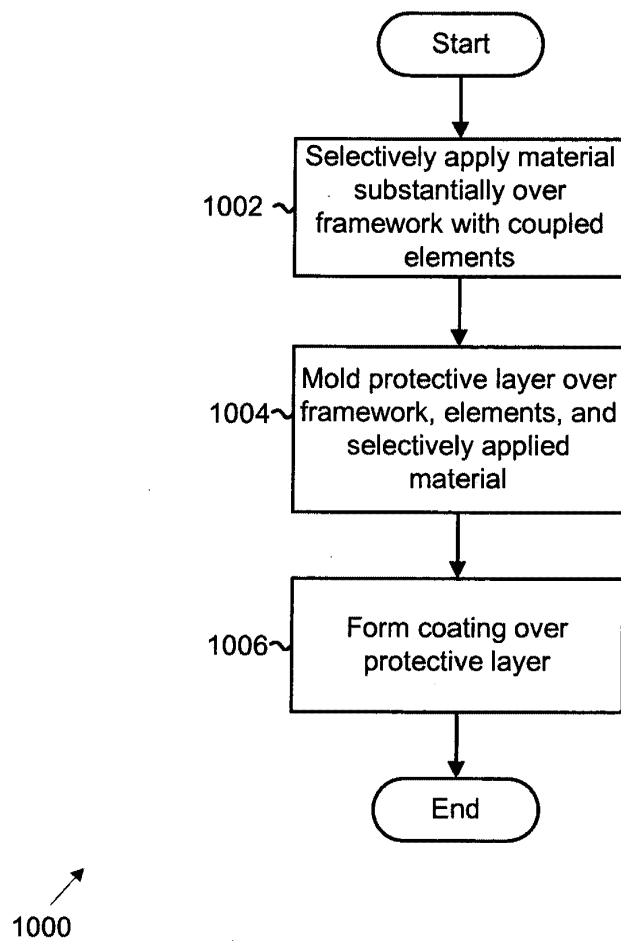


FIG. 10

12/12

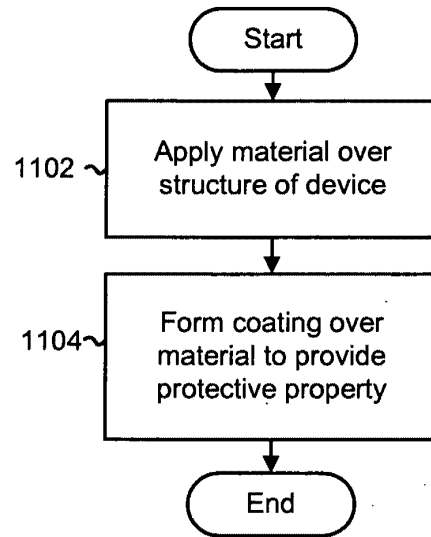


FIG. 11

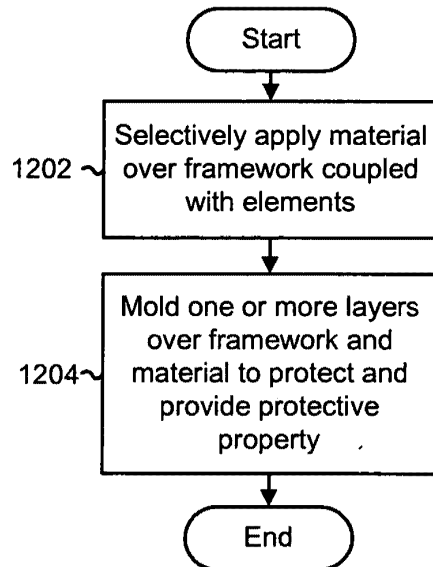


FIG. 12

Application Data Sheet

Cross-Reference to Related Applications

This application is a continuation-in-part of U.S. Patent Application No. 13/158,416, filed June 11, 2011 (Attorney Docket No.: ALI-001CIP1), entitled "Component Protective Overmolding," which is a continuation-in-part of U.S. Patent Application No. 13/158,372, filed June 10, 2011 (Attorney Docket No.: ALI-001), entitled "Component Protective Overmolding," all of which are hereby incorporated by reference in entirety for all purposes.

Application Information

Filing Date::	July 12, 2011
Application Type::	Regular
Subject Matter::	Utility
Suggested Group Art Unit::	None
CD-ROM or CD-R?::	None
Title::	COMPONENT PROTECTIVE OVERMOLDING USING PROTECTIVE EXTERNAL COATINGS
Attorney Docket Number::	ALI-001CIP1CIP1
Request for Early Publication?::	No
Request for Non-Publication?::	No
Suggested Drawing Figure::	2
Total Drawing Sheets::	12
Small Entity::	No

Petition included?:: No

Secrecy Order in Parent Appl.?:: No

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Document Date: **07/12/2011**

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Form Revision Date: December 8, 2006



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1

CONFIRMATION NO. 7731

FORMALITIES LETTER



15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301

Date Mailed: 08/01/2011

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$330 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 7.
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 7-9 are missing and/or blurry.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$260** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- A surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of **\$130** for a non-small entity, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is **\$1480** for a non-small entity

- **\$330** Statutory basic filing fee.
- **\$130** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$540** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$220** to complete the examination fee for a non-small entity.
- Total additional claim fee(s) for this application is **\$260**
 - **\$260** for **5** total claims over 20.

Replies should be mailed to:

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Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://portal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/ebanaybanay/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/135,728	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	330
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	540
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	220
TOTAL CLAIMS (37 CFR 1.16(j))	25	minus 20 = *	5			x 52 =	260
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 220 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$270 (\$135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1350
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/135,728	07/12/2011	3633	0.00	ALI-001CIP1CIP1	25	3

CONFIRMATION NO. 7731

15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301

FILING RECEIPT



OC000000048996552

Date Mailed: 08/01/2011

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Richard Lee Drysdale, Santa Cruz, CA;
Scott Fullam, Palo Alto, CA;
Skip Thomas Orvis, San Jose, CA;
Nora Elam Levinson, Washington, DC;

Assignment For Published Patent Application

AliphCom, San Francisco, CA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/158,416 06/11/2011
which is a CIP of 13/158,372 06/10/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 07/27/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/135,728**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Component protective overmolding using protective external coatings

Preliminary Class

052

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Drysdale et al.

Serial No.: 13/135,728

Filing Date: July 12, 2011

For: COMPONENT PROTECTIVE
OVERMOLDING USING PROTECTIVE
EXTERNAL COATINGS

Confirmation No.: 7731

Examiner: Unknown

Group Art Unit: 3633

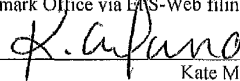
Atty. Docket No.: ALI-001CIP1CIP1

Transmission Date: September 9, 2011

Certificate of Transmission

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via ETS-Web filing on **September 9, 2011**.

Signed: _____



Kate M. Cleland

RESPONSE TO NOTICE TO FILE MISSING PARTS

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

In Response to the Notice to File Missing Parts, mailed August 1, 2011, Applicant hereby provides the missing Declaration for Richard Lee Drysdale, Scott Fullam, Skip Thomas Orvis, and Nora Elam Levinson, as well as the requisite surcharge of \$130 for submission of this paper. Applicant also submits the required application filing, search, examination, and claims fees of \$1,350. A copy of the Notice to File Missing Parts of a Non-Provisional Application is also submitted herewith.

Please contact the undersigned representative below if you should have any further questions or require any additional information.

Respectfully submitted,



Scott S. Kokka
Reg. No. 51,893

KOKKA & BACKUS, PC
703 High Street
Palo Alto, CA 94301
Telephone: (650) 566-9921
Facsimile: (650) 566-9922



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1

CONFIRMATION NO. 7731

FORMALITIES LETTER



0000000048996553

Date Mailed: 08/01/2011

15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.

Applicant must submit \$330 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).

- The oath or declaration is missing.

A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 7.
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 7-9 are missing and/or blurry.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

page 1 of 2

- Additional claim fees of **\$260** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- A surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of **\$130** for a non-small entity, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is **\$1480** for a non-small entity

- **\$330** Statutory basic filing fee.
- **\$130** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$540** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$220** to complete the examination fee for a non-small entity.
- Total additional claim fee(s) for this application is **\$260**
 - **\$260** for 5 total claims over 20.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/ebanaybanay/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As below named inventor,

I hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **COMPONENT PROTECTIVE OVERMOLDING USING PROTECTIVE EXTERNAL COATINGS**, the specification of which

(Check One)

☐ is attached hereto OR

☒ was filed on July 12, 2011 and assigned Application Serial No. 13/135,728.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign applications for patent or inventor's certificate, listed below and so identified, and I have also identified below any foreign application for patent or inventor's certificate on this invention filed by my or my legal representatives or assigns and having a filing date before that of the application on which priority is claimed.

Number	Country	Day/Month/Year Filed	Priority Claimed - Yes or No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial No.	Filing Date	Status
13/158,372	June 10, 2011	Pending
13/158,416	June 11, 2011	Pending

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States provisional application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior provisional application and the filing date of this application.

Provisional Application No.	Filing Date	Status

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint all attorneys associated with

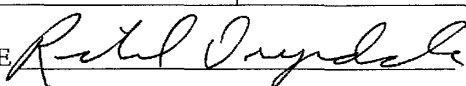
Customer Number 15516

with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith; and

request that all correspondence and telephone calls with respect to this application be directed to

Customer Number 15516

Scott S. Kokka
Kokka & Backus, PC
703 High Street
Palo Alto, CA 94301
Telephone No. (650) 566-9921
Facsimile No. (650) 566-9922

FULL NAME OF INVENTOR	FIRST Name RICHARD	MIDDLE Initial LEE	LAST Name DRYSDALE	
RESIDENCE & CITIZENSHIP	City Santa Cruz	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	235 Isbel Drive	City Santa Cruz	State or Country CA	Zip Code 95060
INVENTOR'S SIGNATURE 			DATE <u>8/29/2011</u>	

FULL NAME OF INVENTOR	FIRST Name SCOTT	MIDDLE Initial	LAST Name FULLAM	
RESIDENCE & CITIZENSHIP	City Palo Alto	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	3982 Sutherland Dr.	City Palo Alto	State or Country CA	Zip Code 94303
INVENTOR'S SIGNATURE _____ DATE _____				

FULL NAME OF INVENTOR	FIRST Name SKIP	MIDDLE Initial THOMAS	LAST Name ORVIS	
RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	6287 Shadelands Drive	City San Jose	State or Country CA	Zip Code 95123
INVENTOR'S SIGNATURE _____ DATE _____				

FULL NAME OF INVENTOR	FIRST Name NORA	MIDDLE Initial ELAM	LAST Name LEVINSON	
RESIDENCE & CITIZENSHIP	City Washington	State or Foreign Country DC	Country of Citizenship USA	
POST OFFICE ADDRESS	3731 Fessenden St. NW	City Washington	State or Country DC	Zip Code 20016
INVENTOR'S SIGNATURE _____ DATE _____				

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FOR PATENT APPLICATION**

As below named inventor,

I hereby declare that my residence, post office address and citizenship are as stated below next to my name.

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Number	Country	Day/Month/Year Filed	Priority Claimed - Yes or No

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Provisional Application No.	Filing Date	Status

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I hereby appoint all attorneys associated with

Customer Number 15516

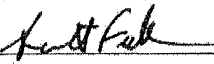
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POST OFFICE ADDRESS	235 Isbel Drive	City Santa Cruz	State or Country CA	Zip Code 95060
INVENTOR'S SIGNATURE _____		DATE _____		

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RESIDENCE & CITIZENSHIP	City Palo Alto	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	3982 Sutherland Dr.	City Palo Alto	State or Country CA	Zip Code 94303
INVENTOR'S SIGNATURE 		DATE <u>8/21/11</u>		

FULL NAME OF INVENTOR	FIRST Name SKIP	MIDDLE Initial THOMAS	LAST Name ORVIS	
RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	6287 Shadelands Drive	City San Jose	State or Country CA	Zip Code 95123
INVENTOR'S SIGNATURE _____		DATE _____		

FULL NAME OF INVENTOR	FIRST Name NORA	MIDDLE Initial ELAM	LAST Name LEVINSON	
RESIDENCE & CITIZENSHIP	City Washington	State or Foreign Country DC	Country of Citizenship USA	
POST OFFICE ADDRESS	3731 Fessenden St. NW	City Washington	State or Country DC	Zip Code 20016
INVENTOR'S SIGNATURE _____		DATE _____		

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Provisional Application No.	Filing Date	Status

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I hereby appoint all attorneys associated with

Customer Number 15516

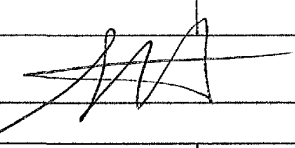
with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith; and

request that all correspondence and telephone calls with respect to this application be directed to

Customer Number 15516

Scott S. Kokka
Kokka & Backus, PC
703 High Street
Palo Alto, CA 94301
Telephone No. (650) 566-9921
Facsimile No. (650) 566-9922

FULL NAME OF INVENTOR	FIRST Name RICHARD	MIDDLE Initial LEE	LAST Name DRYSDALE	
RESIDENCE & CITIZENSHIP	City Santa Cruz	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	235 Isbel Drive	City Santa Cruz	State or Country CA	Zip Code 95060
INVENTOR'S SIGNATURE _____			DATE _____	

FULL NAME OF INVENTOR	FIRST Name SCOTT	MIDDLE Initial	LAST Name FULLAM	
RESIDENCE & CITIZENSHIP	City Palo Alto	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	3982 Sutherland Dr.	City Palo Alto	State or Country CA	Zip Code 94303
INVENTOR'S SIGNATURE _____ DATE _____				
FULL NAME OF INVENTOR	FIRST Name SKIP	MIDDLE Initial THOMAS	LAST Name ORVIS	
RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	6287 Shadelands Drive	City San Jose	State or Country CA	Zip Code 95123
INVENTOR'S SIGNATURE  _____ DATE <u>8/13/11</u>				
FULL NAME OF INVENTOR	FIRST Name NORA	MIDDLE Initial ELAM	LAST Name LEVINSON	
RESIDENCE & CITIZENSHIP	City Washington	State or Foreign Country DC	Country of Citizenship USA	
POST OFFICE ADDRESS	3731 Fessenden St. NW	City Washington	State or Country DC	Zip Code 20016
INVENTOR'S SIGNATURE _____ DATE _____				

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As below named inventor,

I hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **COMPONENT PROTECTIVE OVERMOLDING USING PROTECTIVE EXTERNAL COATINGS**, the specification of which

(Check One) ☐ is attached hereto OR

☒ was filed on July 12, 2011 and assigned Application Serial No. 13/135,728.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign applications for patent or inventor's certificate, listed below and so identified, and I have also identified below any foreign application for patent or inventor's certificate on this invention filed by my or my legal representatives or assigns and having a filing date before that of the application on which priority is claimed.

Number	Country	Day/Month/Year Filed	Priority Claimed - Yes or No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial No.	Filing Date	Status
13/158,372	June 10, 2011	Pending
13/158,416	June 11, 2011	Pending

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States provisional application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior provisional application and the filing date of this application.

Provisional Application No.	Filing Date	Status

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint all attorneys associated with

Customer Number 15516

with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith; and

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Telephone No. (650) 566-9921
Facsimile No. (650) 566-9922

FULL NAME OF INVENTOR	FIRST Name RICHARD	MIDDLE Initial LEE	LAST Name DRYSDALE	
RESIDENCE & CITIZENSHIP	City Santa Cruz	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	235 Isbel Drive	City Santa Cruz	State or Country CA	Zip Code 95060
INVENTOR'S SIGNATURE _____			DATE _____	

FULL NAME OF INVENTOR	FIRST Name SCOTT	MIDDLE Initial	LAST Name FULLAM	
RESIDENCE & CITIZENSHIP	City Palo Alto	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	3982 Sutherland Dr.	City Palo Alto	State or Country CA	Zip Code 94303
INVENTOR'S SIGNATURE _____ DATE _____				

FULL NAME OF INVENTOR	FIRST Name SKIP	MIDDLE Initial THOMAS	LAST Name ORVIS	
RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country CA	Country of Citizenship USA	
POST OFFICE ADDRESS	6287 Shadelands Drive	City San Jose	State or Country CA	Zip Code 95123
INVENTOR'S SIGNATURE _____ DATE _____				

FULL NAME OF INVENTOR	FIRST Name NORA	MIDDLE Initial ELAM	LAST Name LEVINSON	
RESIDENCE & CITIZENSHIP	City Washington	State or Foreign Country DC	Country of Citizenship USA	
POST OFFICE ADDRESS	3731 Fessenden St. NW	City Washington	State or Country DC	Zip Code 20016
INVENTOR'S SIGNATURE <u>Nora E. Elam</u> DATE <u>August 22, 2011</u>				

Electronic Patent Application Fee Transmittal				
Application Number:		13135728		
Filing Date:		12-Jul-2011		
Title of Invention:		Component protective overmolding using protective external coatings		
First Named Inventor/Applicant Name:		Richard Lee Drysdale		
Filer:		Scott Susumu Kokka		
Attorney Docket Number:		ALI-001CIP1CIP1		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	330	330
Utility Search Fee	1111	1	540	540
Utility Examination Fee	1311	1	220	220
Pages:				
Claims:				
Claims in excess of 20	1202	5	52	260
Miscellaneous-Filing:				
Late filing fee for oath or declaration	1051	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1480

Electronic Acknowledgement Receipt	
EFS ID:	10918245
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	09-SEP-2011
Filing Date:	12-JUL-2011
Time Stamp:	19:55:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		ALI-001CIP1CIP1_Response_to _NOMP_asfiled.pdf	2195002 b081f0f2f71f9d12128ccab28941c925cca72a05	yes	15

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	3	
	Oath or Declaration filed		4	15	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37834	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			2232836		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Patent Application Fee Transmittal				
Application Number:		13135728		
Filing Date:		12-Jul-2011		
Title of Invention:		Component protective overmolding using protective external coatings		
First Named Inventor/Applicant Name:		Richard Lee Drysdale		
Filer:		Scott Susumu Kokka/Kate Cleland		
Attorney Docket Number:		ALI-001CIP1CIP1		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	330	330
Utility Search Fee	1111	1	540	540
Utility Examination Fee	1311	1	220	220
Pages:				
Claims:				
Claims in excess of 20	1202	5	52	260
Miscellaneous-Filing:				
Late filing fee for oath or declaration	1051	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1480

Electronic Acknowledgement Receipt	
EFS ID:	10935301
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	14-SEP-2011
Filing Date:	12-JUL-2011
Time Stamp:	21:29:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1480
RAM confirmation Number	13126
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Fee Worksheet (SB06)	fee-info.pdf	37880	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):				37880	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1

CONFIRMATION NO. 7731

FORMALITIES LETTER

15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301



Date Mailed: 09/19/2011

NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 09/09/2011 to the Notice to File Missing Parts (Notice) mailed 08/01/2011 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

Applicant is given **TWO MONTHS** from the date of the Notice to File Missing Parts (Notice) mailed 08/01/2011 within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

Items Required to Avoid Abandonment:

The required items noted below SHOULD be filed along with any items required above. The filing date of this nonprovisional application will be the date of receipt of the items required above.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 7.
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 7-9 are missing and/or blurry.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/skiflemariam/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/135,728				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	330			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	540			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	220			
TOTAL CLAIMS (37 CFR 1.16(i))	25	minus 20 = *	5			x 52 =	260			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 220 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$270 (\$135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1350			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE								TOTAL ADD'L FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE								TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1

CONFIRMATION NO. 7731

FORMALITIES LETTER



OC000000049873259

15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301

Date Mailed: 09/19/2011

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 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 7.
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 7-9 are missing and/or blurry.

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Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://portal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/skiflemariam/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

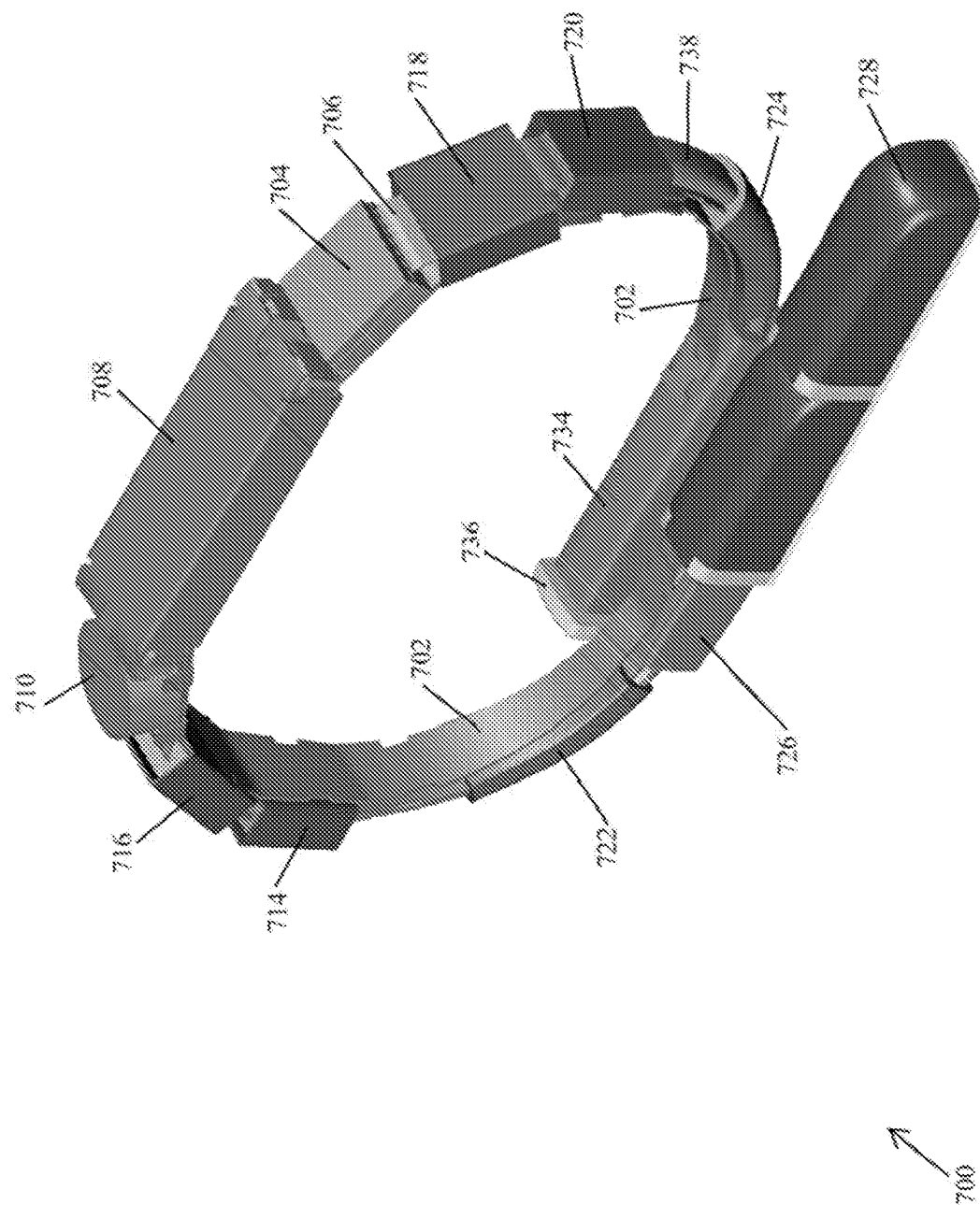


FIG. 7

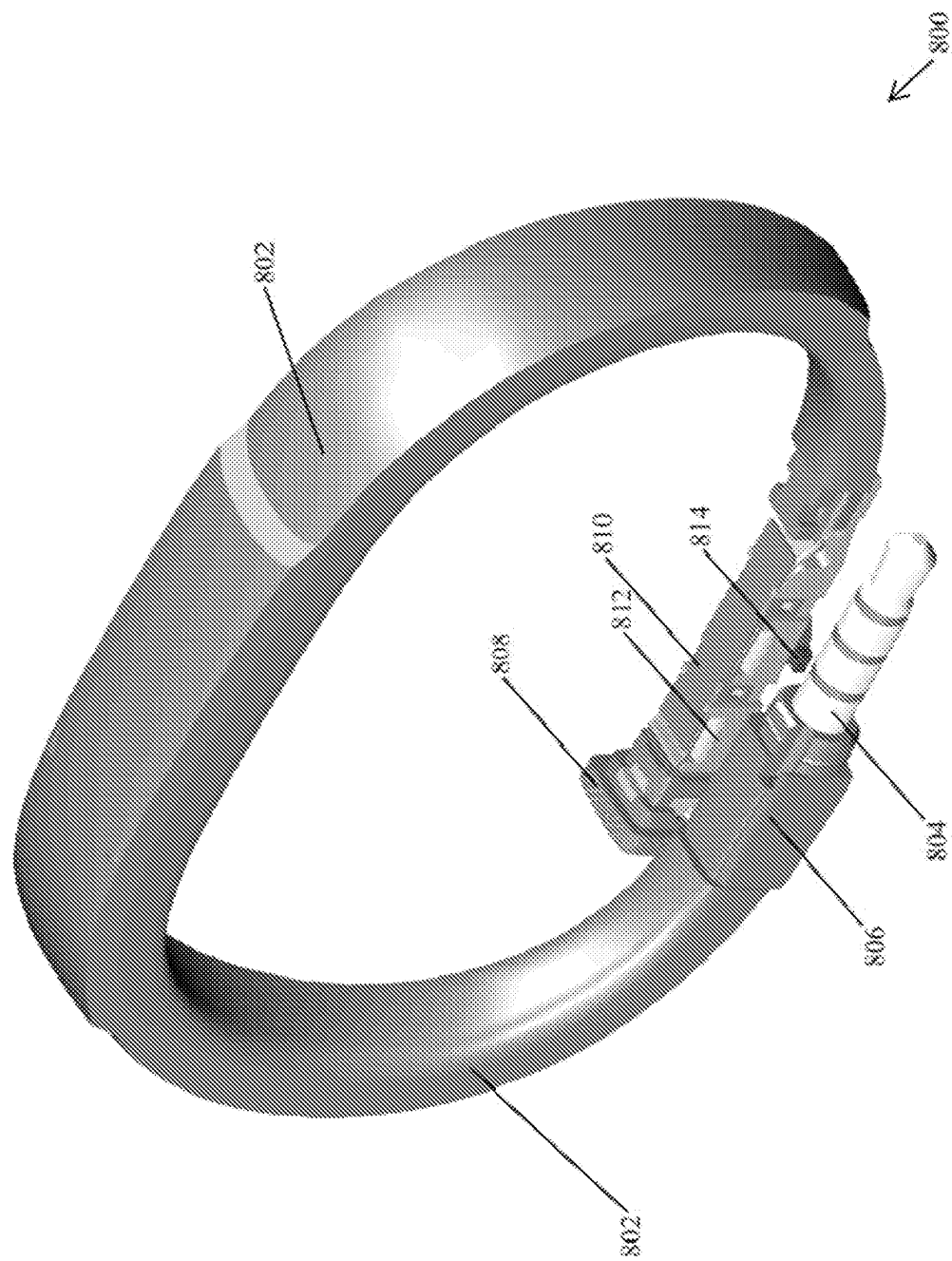


FIG. 8

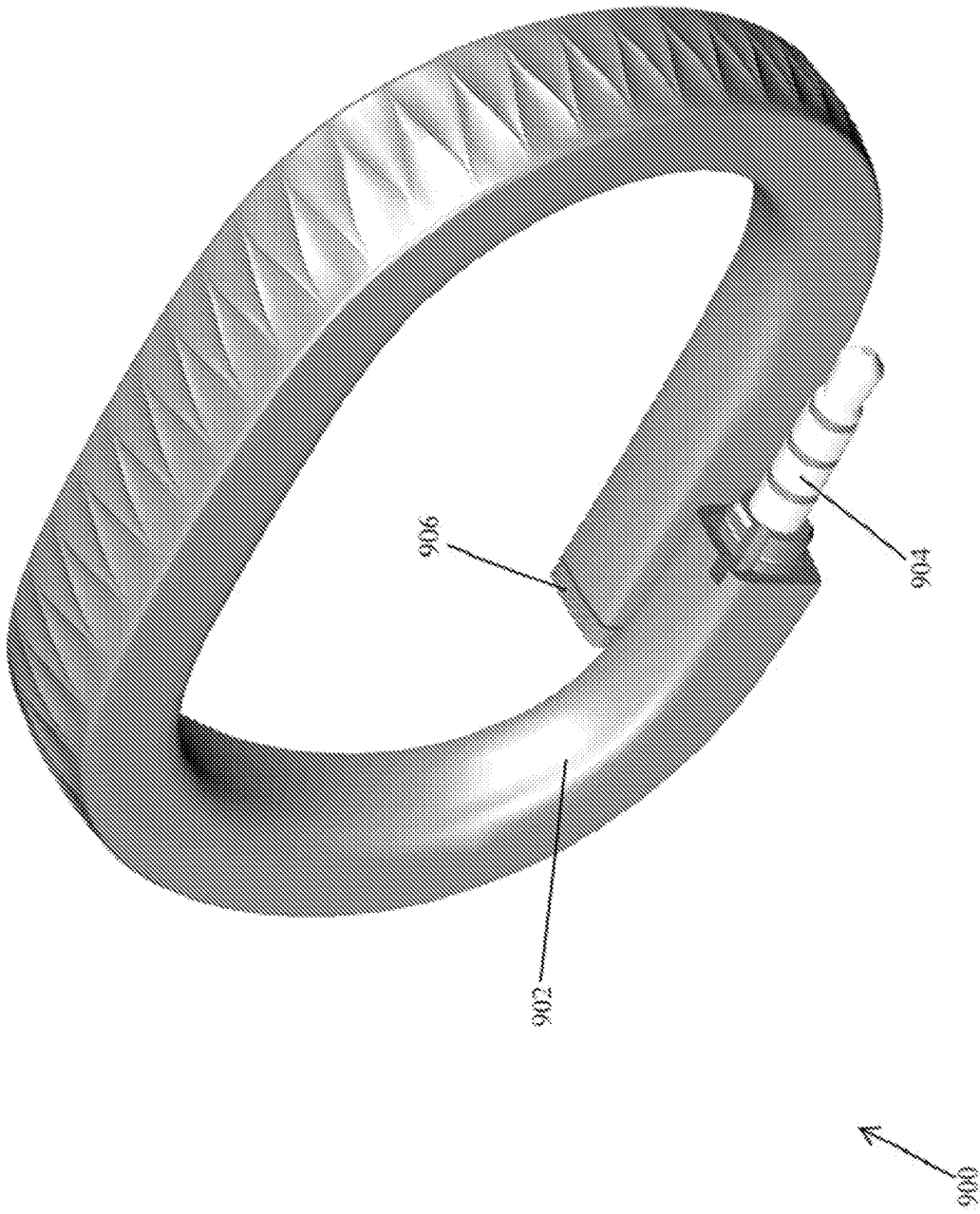


FIG. 9

Electronic Acknowledgement Receipt	
EFS ID:	11053810
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	26-SEP-2011
Filing Date:	12-JUL-2011
Time Stamp:	20:57:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		ALI-001CIP1CIP1_Response_to _Notice_of_Incomplete_Reply_ asfiled.pdf	463863 c73c03d470f02be3f96231b6a533a4e017e17d22	yes	6

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Transmittal Letter	1	1
	Miscellaneous Incoming Letter	2	3
	New or Additional Drawings	4	6
Warnings:			
Information:			
Total Files Size (in bytes):		463863	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Drysdale et al.

Serial No.: 13/135,728

Filing Date: July 12, 2011

For: COMPONENT PROTECTIVE
OVERMOLDING USING PROTECTIVE
EXTERNAL COATINGS

Confirmation No.: 7731

Examiner: Unknown

Group Art Unit: 3633

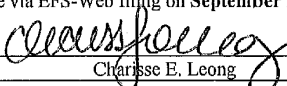
Atty. Docket No.: ALI-001CIP1CIP1

Transmission Date: September 26, 2011

Certificate of Transmission

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via EFS-Web filing on September 26, 2011.

Signed: _____


Charisse E. Leong

RESPONSE TO NOTICE OF INCOMPLETE REPLY

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

In Response to the Notice of Incomplete Reply, mailed September 19, 2011, Applicant submits herewith the requested corrected drawings (3 replacement sheets), including FIGs. 7-9, in compliance with 37 CFR § 1.84 and 37 CFR § 1.121(d). A copy of the Notice of Incomplete Reply is also submitted herewith.

Please contact the undersigned representative below if you should have any further questions or require any additional information.

Respectfully submitted,



Scott S. Kokka
Reg. No. 51,893

KOKKA & BACKUS, PC
703 High Street
Palo Alto, CA 94301
Telephone: (650) 566-9921
Facsimile: (650) 566-9922

SCORE Placeholder Sheet for IFW Content

Application Number: 13135728

Document Date: 9/26/2011

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/135,728	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	380
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	620
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	250
TOTAL CLAIMS (37 CFR 1.16(j))	25	minus 20 = *	5			x 60 =	300
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 250 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1550
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		OTHER THAN SMALL ENTITY	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/135,728	07/12/2011	3633	1480	ALI-001CIP1CIP1	25	3

CONFIRMATION NO. 7731

UPDATED FILING RECEIPT



0000000050168194

15516
Kokka & Backus, PC
703 Hight Street
Palo Alto, CA 94301

Date Mailed: 10/05/2011

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Richard Lee Drysdale, Santa Cruz, CA;
Scott Fullam, Palo Alto, CA;
Skip Thomas Orvis, San Jose, CA;
Nora Elam Levinson, Washington, DC;

Assignment For Published Patent Application

AliphCom, San Francisco, CA

Power of Attorney: The patent practitioners associated with Customer Number 15516

Domestic Priority data as claimed by applicant

This application is a CIP of 13/158,416 06/11/2011
which is a CIP of 13/158,372 06/10/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 07/27/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/135,728**

Projected Publication Date: 12/13/2012

Non-Publication Request: No

Early Publication Request: No

Title

Component protective overmolding using protective external coatings

Preliminary Class

052

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 8049614	09-23-2010	Kahn et al.	
		US- 7987070	09-17-2009	Kahn et al.	
		US- 8040382	07-09-2009	Kahn et al.	
		US- 7647196	02-12-2009	Kahn et al.	
		US- 7917768	07-24-2008	Kahn et al.	
		US- 7705723	10-04-2007	Kahn et al.	
		US- 7839279	02-01-2007	Kahn et al.	
		US- 8064759		Kahn et al.	
		US- 7982770		Kahn et al.	
		US- 7970586		Kahn et al.	
		US- 7907901		Kahn et al.	
		US- 7881902		Kahn et al.	
		US- 7849184		Kahn et al.	
		US- 7841967		Kahn et al.	
		US- 7800044		Kahn et al.	
		US- 7788059		Kahn et al.	
		US- 7753861		Kahn et al.	
		US- 7747735		Kahn et al.	
		US- 7690556		Kahn et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		PCT/US04/26187	02-24-2005	Teller et al.		
		PCT/US01/20014	01-03-2002	Teller et al.		
		PCT/US02/24552	02-20-2003	Teller et al.		
		PCT/US05/09476	10-06-2005	Teller et al.		
		PCT/US09/06234	06-10-2010	Teller et al.		
		PCT/US03/26261	03-04-2004	Teller et al.		

Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 9**Complete if Known**

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 7662065		Kahn et al.	
		US- 7653508		Kahn et al.	
		US- 7647195		Kahn et al.	
		US- 7457719		Kahn et al.	
		US- 7343260		Kahn et al.	
		US- 6527711		Stivoric et al.	
		US- 6595929	12-05-2002	Stivoric et al.	
		US- 6605038		Teller et al.	
		US- 7020508	02-26-2004	Stivoric et al.	
		US- 7153262	04-03-2003	Stivoric et al.	
		US- 7261690	02-14-2002	Teller et al.	
		US- 7285090	08-05-2004	Stivoric et al.	
		US- 7502643	05-26-2005	Farrington et al.	
		US- 7689437		Teller et al.	
		US- 7959567	11-06-2008	Stivoric et al.	
		US- 8073707	02-09-2006	Teller et al.	
		US- D439981		Kasabach et al.	
		US- D451604		Kasabach et al.	
		US- D460971		Sica et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		PCT/US08/54312	08-21-2008	Stivoric et al.		
		PCT/US02/09972	10-10-2002	Stivoric et al.		
		PCT/US01/40958	12-20-2001	Teller et al.		
		CA-2413220		Teller et al.		
		EP-2001944698		Teller et al.		
		IL-153478		Teller et al.		

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- D631552		Kasabach et al.	
		US- D632396		Kasabach et al.	
		US- 61516479		Fish et al.	
		US- 61404379		Fish et al.	
		US- 61516480		Fish et al.	
		US- 61404381		Ram David Adva Fish	
		US- D645968		Kasabach et al.	
		US- 12684881	07-14-2011	Kahn et al.	
		US- 12472361	12-02-2010	Kahn et al.	
		US- 12247950	04-08-2010	Kahn et al.	
		US- 12202206	03-04-2010	Kahn et al.	
		US- 12469633	11-26-2009	Kahn et al.	
		US- 12113110	11-05-2009	Kahn et al.	
		US- 11871151	04-16-2009	Kahn et al.	
		US- 12490304	12-24-2009	Kahn et al.	
		US- 11582896	05-03-2007	Stivoric et al.	
		US- 10638588	02-19-2004	Teller et al.	
		US- 10682293	07-08-2004	Teller et al.	
		US- 10940214	05-26-2005	Pacione et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		JP-200251105		Teller et al.		
		KR-1020027017160		Teller et al.		
		CA-2413148		Teller et al.		
		EP-2001948636		Teller et al.		
		IL-153516		Teller et al.		
		JP-2002504897		Teller et al.		

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
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Sheet 4

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 11088002	11-03-2005	Slivoric et al.	
		US- 11239748	11-23-2006	Slivoric et al.	
		US- 11322010	06-08-2006	Teller et al.	
		US- 11434949	10-05-2006	Teller et al.	
		US- 11481147	02-15-2007	Slivoric et al.	
		US- 11724373	07-26-2007	Teller et al.	
		US- 11925906	07-31-2008	Teller et al.	
		US- 11925965	07-17-2008	Slivoric et al.	
		US- 11928039	07-10-2008	Slivoric et al.	
		US- 11928302	07-31-2008	Farrington et al.	
		US- 11930036	07-10-2008	Teller et al.	
		US- 11930053	07-10-2008	Teller et al.	
		US- 11930081	07-03-2008	Teller et al.	
		US- 11930091	07-03-2008	Teller et al.	
		US- 11930092	07-17-2008	Teller et al.	
		US- 11930094	07-17-2008	Teller et al.	
		US- 12033728	01-01-2009	Slivoric et al.	
		US- 12033722	01-01-2009	Slivoric et al.	
		US- 12033731	12-25-2008	Slivoric et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		KR-1020027017525		Teller et al.		
		CA-2454655		Teller et al.		
		EP-2002768402		Teller et al.		
		IL-160079		Teller et al.		
		JP-2003519861		Teller et al.		
		KR-102004001744		Teller et al.		

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 12033737	12-25-2008	Stivoric et al.	
		US- 12033741	12-25-2008	Stivoric et al.	
		US- 12033746	12-25-2008	Stivoric et al.	
		US- 12033751	12-25-2008	Stivoric et al.	
		US- 12033753	12-25-2008	Stivoric et al.	
		US- 12033760	12-25-2008	Stivoric et al.	
		US- 12033766	12-25-2008	Stivoric et al.	
		US- 12217299	07-09-2009	Stivoric et al.	
		US- 12840109	11-11-2010	Farrington et al.	
		US- 10682293	07-08-2004	Teller et al.	
		US- 60729663		Donald G. Stein	
		US- 60727357		Pacione et al.	
		US- 60555280		Pacione et al.	
		US- 60502746		Bucher et al.	
		US- 60417163		Andre et al.	
		US- 60729683		Stivoric et al.	
		US- 60958516		Andre et al.	
		US- 60510013		Farrington et al.	
		US- 60502764		Stivoric et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		CA-2560323		Stivoric et al.		
		IL-178183		Stivoric et al.		
		JP-200750091		Stivoric et al.		
		EP-2005732135		Stivoric et al.		
		EP-2009830687		Ward et al.		
		CA-2496579		Stivoric et al.		

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Sheet 6

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 60901952		Slivoric et al.	
		US- 11925902	05-07-2009	Teller et al.	
		US- 11925903	07-31-2008	Teller et al.	
		US- 11925908	07-17-2008	Teller et al.	
		US- 11876601		Slivoric et al.	
		US- 11930405	07-24-2008	Teller et al.	
		US- 11928059	09-04-2008	Slivoric et al.	
		US- 11928027	07-03-2008	Slivoric et al.	
		US- 11928051	07-10-2008	Slivoric et al.	
		US- 11930100	07-17-2008	Teller et al.	
		US- 11930048	07-10-2008	Teller et al.	
		US- 11930101	07-10-2008	Teller et al.	
		US- 11927365	11-20-2008	Slivoric et al.	
		US- 11927276	11-20-2008	Slivoric et al.	
		US- 8047966	09-03-2009	Dorogusker et al.	
		US- 8083643	04-28-2011	Carl Ng et al.	
		US- 6356940		Brian Robert Short	
		US- 5974262		Fuller et al.	
		US- 13253000		Ram David Adva Fish	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		EP-2003793253		Stivoric et al.		
		IL-167045		Stivoric et al.		
		JP-2004529813		Stivoric et al.		
		KR-1020057003029		Stivoric et al.		
		MX-PA/a/2005/002024		Telier et al.		
		EP-2008730171		Stivoric et al.		

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Sheet 7

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Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 13182352	01-05-2012	Nazarian et al.	
		US- 7993276	04-20-2006	Nazarian et al.	
		US- 12560069	08-26-2010	Nadkarni et al.	
		US- 12621099	09-30-2010	Nadkarni et al.	
		US- 12823280	01-06-2011	Bentley et al.	
		US- 12883304	03-17-2011	Jangle et al.	
		US- 12891108	03-17-2011	Jangle et al.	
		US- 13204658	11-24-2011	Jangle et al.	
		US- 61210821		Ram David Adva Fish	
		US- 61210862		Ram David Adva Fish	
		US- 12730194	09-23-2010	Ram David Adva Fish	
		US- 12730199	09-23-2010	Ram David Adva Fish	
		US- 61630064		Ram David Adva Fish	
		US- 61627891		Ram David Adva Fish	
		US- 61516478		Fish et al.	
		US- 61516477		Ram David Adva Fish	
		US- 6714859		Jones, Marlin Kelly	
		US- 6952645		Jones, Marlin Kelly	
		US- 7030781		Jones, Marlin Kelly	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		CA-2441962		Stivorc et al.		
		EP-2002733920		Stivorc et al.		
		IL-158067		Stivorc et al.		
		JP-2002576812		Stivorc et al.		
		KR-1020037012845		Stivorc et al.		

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Sheet 8

of 9

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Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

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		Number-Kind Code ² (if known)			
		US- 7400970		Jones, Martin Kelly	
		US- 6904359		Jones, Martin Kelly	
		US- 6486801		Jones, Martin Kelly	
		US- 13405241		Rahman et al.	
		US- 13158372		Fullam et al.	
		US- 13158416		Drysdale et al.	
		US- 61495995		Drysdale et al.	
		US- 13180320		Rahman et al.	
		US- 61495994		Drysdale et al.	
		US- 13181512		Rahman et al.	
		US- 61495997		Drysdale et al.	
		US- 61495996		Drysdale et al.	
		US- 61511541		Jeffery Miao	
		US- 13247975		Sashittal et al.	
		US- 13180000		Rahman et al.	
		US- 61507091		Rahman et al.	
		US- 61572204		Rahman et al.	
		US- 61572206		Rahman et al.	
		US- 13181495		Rahman et al.	

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		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				

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Sheet 9 of 9**Complete if Known**

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
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		US- 13181511		Rahman et al.	
		US- 13181486		Rahman et al.	
		US- 13181500		Rahman et al.	
		US- 13181498		Rahman et al.	
		US- 13181513		Rahman et al.	
		US- 13361919		Rahman et al.	
		US- 13405240	02-25-2012	Drysdale et al.	
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Electronic Acknowledgement Receipt	
EFS ID:	12184619
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	29-FEB-2012
Filing Date:	12-JUL-2011
Time Stamp:	16:53:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no				
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	1.pdf	1998491 98dab964f1f078924b68bc3350eb3f96ef1e8222	no	68
Warnings:					
Information:					

2	Foreign Reference	2.pdf	3079500	no	77
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Warnings:					
Information:					
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Warnings:					
Information:					
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Information:					
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Warnings:					
Information:					
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Information:					

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Information:					
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Information:					
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Warnings:					
Information:					
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Warnings:					
Information:					
16	Information Disclosure Statement (IDS) Form (SB08)	ALI-001CIP1CIP1PTOSB08a.pdf	3009161	no	9
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Total Files Size (in bytes):			284662511		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Drysdale et al.

Application Serial No.: 13/135,728

Filing Date: July 12, 2011

For: COMPONENT PROTECTIVE
OVERMOLDING USING PROTECTIVE
EXTERNAL COATINGS

Confirmation No.: 7731

Examiner: Unassigned

Group Art Unit: 1712

Date: February 29, 2012

Atty. Docket No.: ALI-001CIP1CIP1

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being deposited via EFS-Web to the United States Patent and Trademark Office on February 29, 2012.



Signed: _____
Scott S. Rokka

INFORMATION DISCLOSURE STATEMENT

Sir or Madam:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement (IDS) are being brought to the attention of the Office. The items are listed on the attached forms PTO/SB/08a. The Examiner is requested to make these documents of record.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicants is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicants as such.

1. Timing of the Information Disclosure Statement:

☒ This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) with the new patent application submitted herein (37 CFR § 1.97(a)); or (2) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d) or (3) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (4) before the

mailing of a first Office action on the merits; or (5) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

- ☐ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable.
- ☒ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
- ☐ This IDS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office Action on the merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311.
- ☐ The fee due under 37 CFR § 1.17(p) is submitted herewith.
- ☐ A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not mailed before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d).
- ☐ This IDS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement under 37 CFR § 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted herewith.

STATEMENT UNDER 37 CFR § 1.97(e):

- ☐ Non-Patent Literature Document Cite No. X contained in the IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS.
- ☒ No item contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this IDS.

2. Copies of the Cited Items:

- ☐ Copies of all items listed on the attached form PTO/SB/08a are enclosed.
- ☒ Copies of all Foreign Patent Documents listed on form PTO/SB/08a are enclosed as required by 37 CFR § 1.98(a)(2).

☐ Copies of the following documents listed in PTO/SB/08a (Item Nos. X) are not supplied as they were previously cited by the Office or submitted in Information Disclosure Statements in related applications (Application No. X, filed X) and relied upon in this application for an earlier filing date under 35 USC § 120. See 37 CFR § 1.98(d). The Examiner is requested to make these documents of record.

☐ Copies of the following items listed on the attached forms PTO/SB/08a (Non-Patent Literature Documents Item Nos. 1) were cited in a foreign examination report in a related case. A copy of the search report is attached hereto.

3. Concise Explanation of Relevance:

☒ A concise explanation of relevance of the items listed on forms PTO/SB/08a is not given.

☐ A concise explanation of relevance of [some of] the items listed on forms PTO/SB/08a is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

4. Related Applications:

☒ Applicant(s) bring to the Office's attention the following related application(s): U.S. Patent; Application No. 13/158,372 filed June 10, 2011, Attorney Docket No. ALI-001; Application No. 13/158,416 filed June 11, 2011, Attorney Docket No. ALI-001CIP1; Application No. 61/495,995 filed June 11, 2011, Attorney Docket No. ALI-002P; Application No. 13/180,320 filed July 11, 2011, Attorney Docket No. ALI-002; Application No. 13/405,240 file February 25, 2012, Attorney Docket No. ALI-002CON1; Application No. 61/495,994 filed June 11, 2011, Attorney Docket No. ALI-003P; Application No. 13/181,512 filed July 12, 2011, Attorney Docket No. ALI-003; Application No. 61/495,997 filed June 11, 2011, Attorney Docket No. ALI-004P; Application No. 61/495,996 filed June 11, 2011, Attorney Docket No. ALI-005P; Application No. 61/511,541 filed July 25, 2011, Attorney Docket No. ALI-006P; Application No. 13/247,975 filed September 28, 2011, Attorney Docket No. ALI-006; Application No. 13/180,000 filed July 11, 2011, Attorney Docket No. ALI-007; Application No. 61/507,091 filed July 12, 2011, Attorney Docket No. ALI-010P; Application No. 61/572,204 filed July 12, 2011, Attorney Docket No. ALI-011P;

Application No. 61/572,206 filed July 12, 2011, Attorney Docket No. ALI-012P;
Application No. 13/181,495 filed July 12, 2011, Attorney Docket No. ALI-013;
Application No. 13/361,919 filed January 30, 2012, Attorney Docket No. ALI-013CON1;
Application No. 13/181,511 filed July 12, 2011, Attorney Docket No. ALI-014;
Application No. 13/181,486 filed July 12, 2011, Attorney Docket No. ALI-015;
Application No. 13/181,500 filed July 12, 2011, Attorney Docket No. ALI-016;
Application No. 13/181,498 filed July 12, 2011, Attorney Docket No. ALI-018;
Application No. 13/405,241 filed February 25, 2012, Attorney Docket No. ALI-018CON1;
Application No. 13/181,513 filed July 12, 2011, Attorney Docket No. ALI-019.

5. Conclusion:

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; and
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached forms PTO/SB/08a with initials or other appropriate marks. In the unlikely event that the transmittal letter is separated from this document and the U.S. Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,



Dated: February 29, 2012

By: _____
Scott S. Kokka
Registration No. 51,893



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1

CONFIRMATION NO. 7731

PUBLICATION NOTICE

15516
Kokka & Backus, PC
703 High Street
Palo Alto, CA 94301



OC000000058143020

Title:Component protective overmolding using protective external coatings

Publication No.US-2012-0315382-A1

Publication Date:12/13/2012

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1	7731
15516	7590	10/09/2013	EXAMINER	
Kokka & Backus, PC 703 High Street Palo Alto, CA 94301			MURATA, AUSTIN	
			ART UNIT	PAPER NUMBER
			1712	
			MAIL DATE	DELIVERY MODE
			10/09/2013	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/135,728	Applicant(s) DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 7/12/2011.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-25 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-25 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some * c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 2/29/2012.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 4) ☐ Other: ____.

DETAILED ACTION

The present application is being examined under the pre-AIA first to invent provisions.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under pre-AIA 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of pre-AIA 35 U.S.C. 103(c) and potential pre-AIA 35 U.S.C. 102(e), (f) or (g) prior art under pre-AIA 35 U.S.C. 103(a).

Claims 1, 11, 12, 14-17, and 21-23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225).

Regarding claims 1, 12, 14, 15, and 21-23,

SURVE teaches a method of forming electronic circuits on fibers that are incorporated into wearable products **abstract**. The method includes applying the electronic component to the substrate followed by encapsulation (securing) by protective layer **225** which can individually cover each of the electrodes **223A-C**, **[0027]**. The circuitry can include electronic sensors **[0005]**. The electronic sensors will at least transmit the sensed data (performing an operation using the data). The reference further teaches applying an additional protective shielding layer **227** but does not teach forming two layers of protecting material by molding.

However, BERNSTEIN teaches that when encapsulating integrated circuits it is known to use one or more low pressure molding processes (protective inner molding, "molding a protective layer" and outer molding, "a coating over the protective layer") to protect sensitive components from subsequent thermal over-molding **[0299]**. The integrated circuits are for wearable sensor electronics **[0071]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to

provide additional the protective molding layers of BERSTEIN to help shield sensitive components from a later thermal overmolding process.

Regarding claims 11 and 16,

SURVE teaches the protective layer can be used to protect from harmful substances such as water (waterproof and water resistant) [0026].

Claims 2, 4, 5, 13 and 25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of PARK et al. (US 2010/0279086): claim 25 is evidenced by COTE et al. (US 2001/0042850).

Regarding claim 2,

SURVE teaches forming an electronic circuit over a fiber to be woven or knitted [0016] but does not teach synthetic fibers. However, PARK teaches that when depositing circuitry and protective layer for a wearable device, it is known in the art to perform deposition on a fabric of fibers rather than individual fibers [0016]. The reference further teaches the fabric can be any type of woven or knitted fabric, non-woven fabric, and fiber web, and further specifically notes the use of synthetic fibers [0072]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the fibrous fabric of PARK as the substrate when forming a wearable conductive circuit as a simple substitution of substrates used in wearable circuits.

Regarding claim 4,

Each fiber of the fabric in PARK is considered a "filament".

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Regarding claims 5 and 13,

The synthetic fibers of PARK include polyester and polyamide [0072] which are thermoplastic elastomers.

Regarding claim 25,

Polyester is a known medical grade material, see for example COTE, US 2001/0042850.

Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of LEE et al. (US 2010/0100997).

Regarding claim 3,

The references teach fabricating wearable circuits but do not teach using carbon fiber cloths. However, LEE teaches it is known in the art to use carbon fiber cloths in wearable computers to provide EMI/RFI shielding [0078]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use carbon fiber cloth to add EMI/RFI shielding to the circuitry of SURVE.

Claims 5 and 6 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of CRAIN et al. (US 2011/0042813).

Regarding claim 5 and 6,

The references teach forming a wearable circuit but do not teach using a substrate of polypropylene. However, CRAIN teaches a printed circuit that can be used in wearable electronics [0051] that can use polypropylene as a substrate because it is

inexpensive. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use a substrate of polypropylene as a simple substitution of known substrates used in wearable and further because it is inexpensive.

Claims 7-10, 18-20 and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of YOUNG et al. (US 2011/0217544)

Regarding claims 7, 20 and 24,

The references teach molding protective layers over the wearable flexible circuit but does not teach an anti-bacterial property. However, YOUNG teaches it is known in the art to incorporate additives in a molding process to impart various benefits **abstract** and **[0082]**. One of impregnated particles can be anti-bacterial agents **[0085]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the molding agents of YOUNG with the molding process of SURVE to impart beneficial properties to the molded layer.

Regarding claims 8, 10, 18 and 19,

YOUNG further discloses incorporating wetting agents **[0085]**. The "wetting" refers to both hydrophobic and oleophobic properties **[0123]**.

Regarding claim 9,

YOUNG further discloses incorporating UV-resistant agents **[0085]**.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AUSTIN MURATA whose telephone number is

Art Unit: 1712

(571)270-5596. The examiner can normally be reached on Monday through Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL CLEVELAND can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AUSTIN MURATA/
Examiner, Art Unit 1712

Notice of References Cited	Application/Control No. 13/135,728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2011/0061150	03-2011	Surve, Swatee N.	2/243.1
*	B	US-2011/0213225	09-2011	Bernstein et al.	600/309
*	C	US-2010/0279086	11-2010	Park et al.	428/201
*	D	US-2001/0042850	11-2001	COTE et al.	251/149.1
*	E	US-2010/0100997	04-2010	Lee et al.	2/69
*	F	US-2011/0042813	02-2011	Crain et al.	257/746
*	G	US-2011/0217544	09-2011	Young et al.	428/327
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Receipt date: 02/29/2012

13135728 - GAU: 1712

PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 8049614	09-23-2010	Kahn et al.	
		US- 7987070	09-17-2009	Kahn et al.	
		US- 8040382	07-09-2009	Kahn et al.	
		US- 7647196	02-12-2009	Kahn et al.	
		US- 7917768	07-24-2008	Kahn et al.	
		US- 7705723	10-04-2007	Kahn et al.	
		US- 7839279	02-01-2007	Kahn et al.	
		US- 8064759		Kahn et al.	
		US- 7982770		Kahn et al.	
		US- 7970586		Kahn et al.	
		US- 7907901		Kahn et al.	
		US- 7881902		Kahn et al.	
		US- 7849184		Kahn et al.	
		US- 7841967		Kahn et al.	
		US- 7800044		Kahn et al.	
		US- 7788059		Kahn et al.	
		US- 7753861		Kahn et al.	
		US- 7747735		Kahn et al.	
		US- 7690556		Kahn et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		PCT/US04/26187	02-24-2005	Teller et al.		
		PCT/US01/20014	01-03-2002	Teller et al.		
		PCT/US02/24552	02-20-2003	Teller et al.		
		PCT/US05/09476	10-06-2005	Teller et al.		
		PCT/US09/06234	06-10-2010	Teller et al.		
		PCT/US03/26261	03-04-2004	Teller et al.		

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 02/29/2012

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**INFORMATION DISCLOSURE
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Sheet 2

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 7662065		Kahn et al.	
		US- 7653508		Kahn et al.	
		US- 7647195		Kahn et al.	
		US- 7457719		Kahn et al.	
		US- 7343260		Kahn et al.	
		US- 6527711		Stivoric et al.	
		US- 6595929	12-05-2002	Stivoric et al.	
		US- 6605038		Teller et al.	
		US- 7020508	02-26-2004	Stivoric et al.	
		US- 7153262	04-03-2003	Stivoric et al.	
		US- 7261690	02-14-2002	Teller et al.	
		US- 7285090	08-05-2004	Stivoric et al.	
		US- 7502643	05-26-2005	Farrington et al.	
		US- 7689437		Teller et al.	
		US- 7959567	11-06-2008	Stivoric et al.	
		US- 8073707	02-09-2006	Teller et al.	
		US- D439981		Kasabach et al.	
		US- D451604		Kasabach et al.	
		US- D460971		Sica et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		PCT/US08/54312	08-21-2008	Stivoric et al.		
		PCT/US02/09972	10-10-2002	Stivoric et al.		
		PCT/US01/40958	12-20-2001	Teller et al.		
		CA-2413220		Teller et al.		
		EP-2001944698		Teller et al.		
		IL -153478		Teller et al.		

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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Sheet 3

of 9

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Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

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		US- D631552		Kasabach et al.	
		US- D632396		Kasabach et al.	
		US- 61516479		Fish et al.	
		US- 61404379		Fish et al.	
		US- 61516480		Fish et al.	
		US- 61404381		Ram David Adva Fish	
		US- D645968		Kasabach et al.	
		US- 12684881	07-14-2011	Kahn et al.	
		US- 12472361	12-02-2010	Kahn et al.	
		US- 12247950	04-08-2010	Kahn et al.	
		US- 12202206	03-04-2010	Kahn et al.	
		US- 12469633	11-26-2009	Kahn et al.	
		US- 12113110	11-05-2009	Kahn et al.	
		US- 11871151	04-16-2009	Kahn et al.	
		US- 12490304	12-24-2009	Kahn et al.	
		US- 11582896	05-03-2007	Stivoric et al.	
		US- 10638588	02-19-2004	Teller et al.	
		US- 10682293	07-08-2004	Teller et al.	
		US- 10940214	05-26-2005	Pacione et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
		JP-200251105		Teller et al.	
		KR-1020027017160		Teller et al.	
		CA-2413148		Teller et al.	
		EP-2001948636		Teller et al.	
		IL-153516		Teller et al.	
		JP-2002504897		Teller et al.	

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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Sheet 4 of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

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		Number-Kind Code ² (if known)			
		US- 11088002	11-03-2005	Slivoric et al.	
		US- 11239748	11-23-2006	Slivoric et al.	
		US- 11322010	06-08-2006	Teller et al.	
		US- 11434949	10-05-2006	Teller et al.	
		US- 11481147	02-15-2007	Slivoric et al.	
		US- 11724373	07-26-2007	Teller et al.	
		US- 11925906	07-31-2008	Teller et al.	
		US- 11925965	07-17-2008	Slivoric et al.	
		US- 11928039	07-10-2008	Slivoric et al.	
		US- 11928302	07-31-2008	Farrington et al.	
		US- 11930036	07-10-2008	Teller et al.	
		US- 11930053	07-10-2008	Teller et al.	
		US- 11930081	07-03-2008	Teller et al.	
		US- 11930091	07-03-2008	Teller et al.	
		US- 11930092	07-17-2008	Teller et al.	
		US- 11930094	07-17-2008	Teller et al.	
		US- 12033728	01-01-2009	Slivoric et al.	
		US- 12033722	01-01-2009	Slivoric et al.	
		US- 12033731	12-25-2008	Slivoric et al.	

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		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		KR-1020027017525		Teller et al.		
		CA-2454655		Teller et al.		
		EP-2002768402		Teller et al.		
		IL-160079		Teller et al.		
		JP-2003519861		Teller et al.		
		KR-102004001744		Teller et al.		

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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Sheet 5 of 9

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Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

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		US- 12033737	12-25-2008	Stivoric et al.	
		US- 12033741	12-25-2008	Stivoric et al.	
		US- 12033746	12-25-2008	Stivoric et al.	
		US- 12033751	12-25-2008	Stivoric et al.	
		US- 12033753	12-25-2008	Stivoric et al.	
		US- 12033760	12-25-2008	Stivoric et al.	
		US- 12033766	12-25-2008	Stivoric et al.	
		US- 12217299	07-09-2009	Stivoric et al.	
		US- 12840109	11-11-2010	Farrington et al.	
		US- 10682293	07-08-2004	Teller et al.	
		US- 60729663		Donald G. Stein	
		US- 60727357		Pacione et al.	
		US- 60555280		Pacione et al.	
		US- 60502746		Bucher et al.	
		US- 60417163		Andre et al.	
		US- 60729683		Stivoric et al.	
		US- 60958516		Andre et al.	
		US- 60510013		Farrington et al.	
		US- 60502764		Stivoric et al.	

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		CA-2560323		Stivoric et al.	
		IL-178183		Stivoric et al.	
		JP-200750091		Stivoric et al.	
		EP-2005732135		Stivoric et al.	
		EP-2009830687		Ward et al.	
		CA-2496579		Stivoric et al.	

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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Sheet 6 of 9

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Application Number	13/135,728
Filing Date	7-12-2011
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Attorney Docket Number	ALI-001CIP1CIP1

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		US- 60901952		Slivoric et al.	
		US- 11925902	05-07-2009	Teller et al.	
		US- 11925903	07-31-2008	Teller et al.	
		US- 11925908	07-17-2008	Teller et al.	
		US- 11876601		Slivoric et al.	
		US- 11930405	07-24-2008	Teller et al.	
		US- 11928059	09-04-2008	Slivoric et al.	
		US- 11928027	07-03-2008	Slivoric et al.	
		US- 11928051	07-10-2008	Slivoric et al.	
		US- 11930100	07-17-2008	Teller et al.	
		US- 11930048	07-10-2008	Teller et al.	
		US- 11930101	07-10-2008	Teller et al.	
		US- 11927365	11-20-2008	Slivoric et al.	
		US- 11927276	11-20-2008	Slivoric et al.	
		US- 8047966	09-03-2009	Dorogusker et al.	
		US- 8083643	04-28-2011	Carl Ng et al.	
		US- 6356940		Brian Robert Short	
		US- 5974262		Fuller et al.	
		US- 13253000		Ram David Adva Fish	

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		EP-2003793253		Slivoric et al.	
		IL-167045		Slivoric et al.	
		JP-2004529813		Slivoric et al.	
		KR-1020057003029		Slivoric et al.	
		MX-PA/a/2005/002024		Teller et al.	
		EP-2008730171		Slivoric et al.	

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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		US- 12621099	09-30-2010	Nadkarni et al.	
		US- 12823280	01-06-2011	Bentley et al.	
		US- 12883304	03-17-2011	Jangle et al.	
		US- 12891108	03-17-2011	Jangle et al.	
		US- 13204658	11-24-2011	Jangle et al.	
		US- 61210821		Ram David Adva Fish	
		US- 61210862		Ram David Adva Fish	
		US- 12730194	09-23-2010	Ram David Adva Fish	
		US- 12730199	09-23-2010	Ram David Adva Fish	
		US- 61630064		Ram David Adva Fish	
		US- 61627891		Ram David Adva Fish	
		US- 61516478		Fish et al.	
		US- 61516477		Ram David Adva Fish	
		US- 6714859		Jones, Marlin Kelly	
		US- 6952645		Jones, Marlin Kelly	
		US- 7030781		Jones, Marlin Kelly	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁵ Kind Code ⁶ (if known)				
		CA-2441962		Stivoric et al.		
		EP-2002733920		Stivoric et al.		
		IL-158067		Stivoric et al.		
		JP-2002576812		Stivoric et al.		
		KR-1020037012845		Stivoric et al.		

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.M./

Receipt date: 02/29/2012

13135728 - GAU: 1712

PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 8

of 9

Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 7400970		Jones, Martin Kelly	
		US- 6904359		Jones, Martin Kelly	
		US- 6486801		Jones, Martin Kelly	
		US- 13405241		Rahman et al.	
		US- 13158372		Fullam et al.	
		US- 13158416		Drysdale et al.	
		US- 61495995		Drysdale et al.	
		US- 13180320		Rahman et al.	
		US- 61495994		Drysdale et al.	
		US- 13181512		Rahman et al.	
		US- 61495997		Drysdale et al.	
		US- 61495996		Drysdale et al.	
		US- 61511541		Jeffery Miao	
		US- 13247975		Sashittal et al.	
		US- 13180000		Rahman et al.	
		US- 61507091		Rahman et al.	
		US- 61572204		Rahman et al.	
		US- 61572206		Rahman et al.	
		US- 13181495		Rahman et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ²
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	/Austin Murata/	Date Considered	10/05/2013
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13135728 - GAU: 1712

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Sheet	9	of	9
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Complete if Known

Application Number	13/135,728
Filing Date	7-12-2011
First Named Inventor	Richard Lee Drysdale
Art Unit	1712
Examiner Name	MURATA, Austin
Attorney Docket Number	ALI-001CIP1CIP1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

/Austin Murata/

Date	Cons
11/1/20	10/1/20
11/2/20	10/2/20
11/3/20	10/3/20
11/4/20	10/4/20
11/5/20	10/5/20
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11/28/20	10/28/20
11/29/20	10/29/20
11/30/20	10/30/20
12/1/20	10/31/20

10/05/2013

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3060	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 11:52
L2	3	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with syringe	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 11:53
L3	451	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with (pattern\$3 or select\$5)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 11:57
L4	751	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3 or secur\$3) with (pattern\$3 or select\$5)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 11:57
L5	197	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with (pattern\$3 or select\$5) with (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:05
L6	134	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) near2 (coat\$3 or layer) with (pattern\$3 or select\$5)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:05
L7	52	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with (multilayer or multiple layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:13
L8	4687	flexible near2 (circuit or wir\$3) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:15
L9	573	flexible near2 (circuit or wir\$3) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with mold\$3 with (second or multiple)	US-PGPUB; USPAT; USOCR;	ADJ	ON	2013/10/05 12:16

			DERWENT			
L10	36	flexible near2 (circuit or wir\$3) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) with (sensitive) with (subsequent or later\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:26
L11	1	flexible near2 (circuit or wir\$3) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) near2 (sensitive) with (subsequent or later\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:26
L12	1	(flexible near2 (circuit or wir\$3) or wearable) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) near2 (sensitive) with (subsequent or later\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:26
L13	911	(flexible near2 (circuit or wir\$3) or wearable) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) near2 (sensitive)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:27
L14	3	(flexible near2 (circuit or wir\$3) or wearable) and @ay<="2011" and (protect\$3 or encapsulat\$3 or insulat\$3) near2 (sensitive) with selectively	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:27
L15	84	427/96.2.ccls. and @ay<="2011" and flexible	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:29
L16	84	427/96.2.ccls. and @ay<="2011" and (flexible or wearable)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:29
L17	20	427/96.2.ccls. and @ay<="2011" and (flexible or wearable) and mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:51
L18	11433	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:54
L19	1572	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and mold\$3 with (protect\$3 or shield\$3 or encapsulat\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:55
L20	249	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and mold\$3 with (protect\$3 or shield\$3 or encapsulat\$3) and (anti-bacterial or medical)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 12:55
L21	0	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and	US-PGPUB; USPAT;	ADJ	ON	2013/10/05 13:15

		(overmold\$3 or over-mold\$3 or over mold\$3) with (antibacterial or anti-bacterial)	USOCR; DERWENT			
L22	6	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (overmold\$3 or over-mold\$3 or over mold\$3 or mold\$3) with (antibacterial or anti-bacterial)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 13:15
L23	145	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (antibacterial or anti-bacterial)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 13:37
L24	70	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (antibacterial or anti-bacterial) and (mold\$3 or overmold\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 13:38
L25	4	((("20110213225") or ("20110061150")).PN.	US- PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/05 13:48
L26	3831	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:09
L27	601	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene) with (fabric or substrate or support)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:10
L28	45	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene) with (fabric or substrate or support)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:12
L29	0	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber and polypropylene) with (fabric or substrate or support)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:15
L30	12	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber) with (fabric or substrate or support)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:15
L31	33	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (polypropylene) with (fabric or substrate or support)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:20
L32	2	"US 20120315382"	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/05 14:46
L33	667	@ay<="2011" and (polyester or	US-	ADJ	ON	2013/10/05

		polypropylen) with medical grade	PGPUB; USPAT; USOCR; DERWENT			14:47
S1	2	"US 20120315382"	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 12:10
S2	171951	(strapband or band) with (sens\$3 or detect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 12:47
S3	156492	(strapband or band) with (sens\$3 or detect\$3) and @ay<="2011"	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 12:48
S4	4127	(strapband or band) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011"	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 12:48
S5	1080	(strapband or band) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 12:49
S6	69	(strapband or band) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3 or form\$3 or coat\$3) with (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:03
S7	2	(strapband) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3 or form\$3 or coat\$3) with (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:06
S8	61	(strapband or wristband or headband or wearable) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3 or form\$3 or coat\$3) with (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:07
S9	28	(wearable) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3) with (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:12
S10	3	(wearable) with ((sens\$3 or detect\$3) near2 biologic\$2 or biosensor) and @ay<="2011" and (mold\$3 or overmold\$3) with (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:14
S11	47	(wearable) with ((sens\$3 or detect\$3) near2 biologic\$2 or biosensor or	US- PGPUB;	ADJ	ON	2013/10/04 13:24

		electronic) and @ay<="2011" and (mold\$3 or overmold\$3) with (protect\$3)	USPAT; USOCR; DERWENT			
S12	2407	(wearable) with ((sens\$3 or detect\$3) near2 biologic\$2 or biosensor or electronic) and @ay<="2011" and (protect\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:27
S13	6318	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011"	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:32
S14	47	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (mold\$3 or overmold\$3) with protect\$3	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:32
S15	490	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (mold\$3 or overmold\$3 or form\$3 or coat\$3) with protect\$3	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 13:33
S16	5503	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (mold\$3 or overmold\$3 or form\$3 or coat\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 14:47
S17	890	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (mold\$3 or overmold\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 14:47
S18	136	(wearable) with ((sens\$3 or detect\$3) near2 (biologic\$2 or medical) or biosensor or electronic) and @ay<="2011" and (mold\$3 or overmold\$3) with (protect\$3 or encapsulat\$3 or insulat\$3)	US- PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2013/10/04 15:01

EAST Search History (Interference)

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10/ 5/ 2013 3:05:13 PM**C:\ Users\ amurata\ Documents\ EAST\ Workspaces\ 13135728.wsp**



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BIB DATA SHEET

CONFIRMATION NO. 7731

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/135,728	07/12/2011	427	1712	ALI-001CIP1CIP1		
APPLICANTS Richard Lee Drysdale, Santa Cruz, CA; Scott Fullam, Palo Alto, CA; Skip Thomas Orvis, San Jose, CA; Nora Elam Levinson, Washington, DC;						
** CONTINUING DATA ***** This application is a CIP of 13/158,416 06/11/2011 which is a CIP of 13/158,372 06/10/2011						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 07/27/2011						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /AUSTIN MURATA/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 12	TOTAL CLAIMS 25	INDEPENDENT CLAIMS 3
ADDRESS Kokka & Backus, PC 703 High Street Palo Alto, CA 94301 UNITED STATES						
TITLE Component protective overmolding using protective external coatings						
FILING FEE RECEIVED 1480	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Search Notes 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
427	96.2	10/5/2013	am

SEARCH NOTES		
Search Notes	Date	Examiner
inv name search	10/5/2013	am
ids considered	10/5/2013	am
keyword search	10/5/2013	am

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/AUSTIN MURATA/ Examiner.Art Unit 1712	
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<i>Index of Claims</i> 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	10/05/2013								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								
	22	✓								
	23	✓								
	24	✓								
	25	✓								

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Drysdale et al.

Application Serial No.: 13/135,728

Filing Date: July 12, 2011

For: COMPONENT PROTECTIVE
OVERMOLDING USING PROTECTIVE
EXTERNAL COATINGS

Examiner: MURATA, Austin

Confirmation No.: 7731

Group Art Unit: 1712

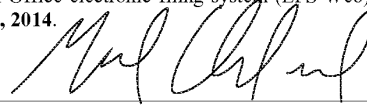
Transmission Date: January 9, 2014

Atty. Docket No.: ALI-001CIP1CIP1

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted via the U.S. Patent and Trademark Office electronic filing system (EFS-Web) to the USPTO on **January 9, 2014**.

Signed: _____



Mark C. Cleland

AMENDMENT A

Dear Sir or Madam:

Please find enclosed a complete, updated claim listing and remarks in response to the Office Action mailed October 9, 2013.

CLAIM LISTING

Please amend claims 1, 12 and 21 as indicated below.

1. (Currently amended) A method, comprising:

selectively applying a material substantially over a framework configured to be worn and coupled to one or more elements configured to perform an operation using data from one or more sensory inputs;

molding a protective layer substantially over the framework and the material, after the material has been selectively applied, the protective layer being removable; and

depositing a coating over the protective layer, the coating having a protective property.
2. (Original) The method of claim 1, wherein the framework is comprised of a synthetic fiber.
3. (Original) The method of claim 1, wherein the framework is formed using carbon fiber.
4. (Original) The method of claim 1, wherein the framework is comprised of one or more filaments.
5. (Original) The method of claim 1, wherein the framework is formed using a thermoplastic elastomer.

6. (Original) The method of claim 5, wherein the thermoplastic elastomer comprises polypropylene.
7. (Original) The method of claim 1, wherein the coating is anti-bacterial.
8. (Original) The method of claim 1, wherein the coating is oleophobic
9. (Original) The method of claim 1, wherein the coating is configured to protect against ultraviolet radiation.
10. (Original) The method of claim 1, wherein the coating is hydrophobic.
11. (Original) The method of claim 1, wherein the coating is configured to provide a waterproof seal over the framework and the one or more elements.
12. (Currently amended) A method, comprising:
applying a material over a structure of a device, the device being configured to perform an operation using data from one or more sensory inputs, the material being removable; and
forming a coating over the material, the coating being configured to provide a protective property.
13. (Original) The method of claim 12, wherein the material is a thermoplastic elastomer.

14. (Original) The method of claim 12, wherein the structure is substantially flexible.
15. (Original) The method of claim 12, further comprising one or more elements configured to perform the operation using the data from the one or more sensory inputs are mounted on the structure.
16. (Original) The method of claim 12, wherein the protective property is waterproofing.
17. (Original) The method of claim 12, wherein the protective property is water-resisting.
18. (Original) The method of claim 12, wherein the protective property is hydrophobic.
19. (Original) The method of claim 12, wherein the protective property is oleophobic.
20. (Original) The method of claim 12, wherein the protective property is anti-bacterial.

21. (Currently amended) A method, comprising:

selectively applying a material substantially over a framework configured to be worn and to be coupled with one or more elements, the one or more elements being configured to perform an operation using data from one or more sensory inputs; and

molding one or more layers substantially over the framework and the material, after the material has been selectively applied, the one or more layers comprising a coating configured to protect the framework, the one or more elements, and the material and to provide a protective property, and at least one of the one or more layers being removable.

22. (Original) The method of claim 21, wherein the material is configured to secure the one or more elements to the framework.

23. (Original) The method of claim 21, wherein the material is configured to protect the one or more elements from damage occurring during the molding the one or more layers substantially over the framework.

24. (Original) The method of claim 21, wherein at least one of the one or more layers is antibacterial.

25. (Original) The method of claim 21, wherein at least one of the one or more layers comprises a medical-grade thermoplastic elastomer.

REMARKS

Claims 1, 12 and 21 have been amended. Claims 1-25 remain pending.

The Examiner has rejected claims 1, 11, 12, 14-17 and 21-23 under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2011/0061150 to Surve (“Surve”) in view of U.S. Patent Application Publication No. 2011/0213225 to Bernstein et al. (“Bernstein”). The Examiner has rejected claims 2, 4, 5, 13 and 25 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0279086 to Park et al. (“Park”), and for claim 25, in further view of U.S. Patent Application Publication No. 2001/0042850 to Cote et al. (“Cote”). The Examiner has rejected claim 3 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0100997 to Lee et al. (“Lee”). The Examiner has rejected claims 5 and 6 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0042813 to Crain et al. (“Crain”). The Examiner has rejected claims 7-10, 18-20 and 24 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0217544 to Young et al. (“Young”).

The rejections are respectfully traversed. As amended, claim 1 recites “...molding a protective layer substantially over the framework and the material, after the material has been selectively applied, the protective layer being removable....” Neither Surve, Bernstein, Park, Cote, Lee, Crain nor Young describe, disclose, teach, suggest, or motivate “...molding a protective layer substantially over the framework and the material, after the material has been

selectively applied, the protective layer being removable....” Thus, Applicants submit that claim 1 is allowable for the reasons stated above.

Claims 12 and 21 have been similarly amended and are believed to be allowable for the same reasons as those stated for claim 1.

Claims 2-13, 14-20 and 22-25 depend from claims 1, 12 and 21 respectively and are believed to be allowable for the same reasons described above.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,



Daisy S. Yau
Reg. No. 58691

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Electronic Acknowledgement Receipt	
EFS ID:	17868439
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Daisy S. Yau
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	09-JAN-2014
Filing Date:	12-JUL-2011
Time Stamp:	20:53:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	ALI-001CIP1CIP1_Amendment_A_asfiled.pdf	82453 cd37472e739ede0a728e080c0c8526e951b651ed	no	7

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 13/135,728		Filing Date 07/12/2011		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO										
APPLICATION AS FILED – PART I										
(Column 1)		(Column 2)								
FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A						
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A						
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A						
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*		X \$ =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =						
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL						
APPLICATION AS AMENDED – PART II										
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	01/09/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 25	Minus	** 25	= 0	X \$80 =		0		
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		0		
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =				
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1	7731
15516 7590 Kokka & Backus, PC 703 High Street Palo Alto, CA 94301			EXAMINER MURATA, AUSTIN	
			ART UNIT 1712	PAPER NUMBER
			MAIL DATE 02/04/2014	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/135,728	Applicant(s) DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 1/9/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-25 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-25 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☐ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413) |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) | Paper No(s)/Mail Date. ____. |
| Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Amendment

The amendments filed 1/9/2014 have been entered and fully considered.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under pre-AIA 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of pre-AIA 35 U.S.C. 103(c) and potential pre-AIA 35 U.S.C. 102(e), (f) or (g) prior art under pre-AIA 35 U.S.C. 103(a).

Claims 1, 11, 12, 14-17, and 21-23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225).

Regarding claims 1, 12, 14, 15, and 21-23,

SURVE teaches a method of forming electronic circuits on fibers that are incorporated into wearable products **abstract**. The method includes applying the electronic component to the substrate followed by encapsulation (securing) by protective layer **225** which can individually cover each of the electrodes **223A-C**, **[0027]**. The circuitry can include electronic sensors **[0005]**. The electronic sensors will at least transmit the sensed data (performing an operation using the data). The reference further teaches applying an additional protective shielding layer **227** but does not teach forming two layers of protecting material by molding.

However, BERNSTEIN teaches that when encapsulating integrated circuits it is known to use one or more low pressure molding processes (protective inner molding, "molding a protective layer" and outer molding, "a coating over the protective layer") to protect sensitive components from subsequent thermal over-molding **[0299]**. The integrated circuits are for wearable sensor electronics **[0071]**. At the time of the

invention it would have been prima facie obvious to one of ordinary skill in the art to provide additional the protective molding layers of BERSTEIN to help shield sensitive components from a later thermal overmolding process.

The examiner notes that the claim does not positively require a step for removing the protective layer and that all materials are “removable” by some process (ablation, etching, abrasion, etc.).

Regarding claims 11, 16 and 17,

SURVE teaches the protective layer can be used to protect from harmful substances such as water (waterproof and water resistant) [0026].

Claims 2, 4, 5, 13 and 25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of PARK et al. (US 2010/0279086): claim 25 is evidenced by COTE et al. (US 2001/0042850).

Regarding claim 2,

SURVE teaches forming an electronic circuit over a fiber to be woven or knitted [0016] but does not teach synthetic fibers. However, PARK teaches that when depositing circuitry and protective layer for a wearable device, it is known in the art to perform deposition on a fabric of fibers rather than individual fibers [0016]. The reference further teaches the fabric can be any type of woven or knitted fabric, non-woven fabric, and fiber web, and further specifically notes the use of synthetic fibers [0072]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the fibrous fabric of PARK as the substrate when forming

Art Unit: 1712

a wearable conductive circuit as a simple substitution of substrates used in wearable circuits.

Regarding claim 4,

Each fiber of the fabric in PARK is considered a “filament”.

Regarding claims 5,

The synthetic fibers of PARK include polyester and polyamide [0072] which are thermoplastic elastomers.

Regarding claim 13,

The SURVE reference teaches applying a protective coating of resistive plastic resin [0027] but does not expressly teach using thermoplastic elastomer. However, PARK teaches when forming wiring patterns with wearable clothing, the conductive traces are encased in protective/insulating material that can be polyester [0027].

Regarding claim 25,

Polyester is a known medical grade material, see for example COTE, US 2001/0042850.

Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of LEE et al. (US 2010/0100997).

Regarding claim 3,

The references teach fabricating wearable circuits but do not teach using carbon fiber cloths. However, LEE teaches it is known in the art to use carbon fiber cloths in wearable computers to provide EMI/RFI shielding [0078]. At the time of the invention it

would have been prima facie obvious to one of ordinary skill in the art to use carbon fiber cloth to add EMI/RFI shielding to the circuitry of SURVE.

Claims 5 and 6 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of CRAIN et al. (US 2011/0042813).

Regarding claim 5 and 6,

The references teach forming a wearable circuit but do not teach using a substrate of polypropylene. However, CRAIN teaches a printed circuit that can be used in wearable electronics [0051] that can use polypropylene as a substrate because it is inexpensive. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use a substrate of polypropylene as a simple substitution of known substrates used in wearable and further because it is inexpensive.

Claims 7-10, 18-20 and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of YOUNG et al. (US 2011/0217544)

Regarding claims 7, 20 and 24,

The references teach molding protective layers over the wearable flexible circuit but does not teach an anti-bacterial property. However, YOUNG teaches it is known in the art to incorporate additives in a molding process to impart various benefits **abstract** and [0082]. One of impregnated particles can be anti-bacterial agents [0085]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in

the art to use the molding agents of YOUNG with the molding process of SURVE to impart beneficial properties to the molded layer.

Regarding claims 8, 10, 18 and 19,

YOUNG further discloses incorporating wetting agents [0085]. The "wetting" refers to both hydrophobic and oleophobic properties [0123].

Regarding claim 9,

SURVE teaches is could be desired to shield a deposited transistor from electromagnetic radiation (e.g. UV light) [0028]. YOUNG further discloses incorporating UV-resistant agents [0085]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to incorporated the UV resistant agents of YOUNG to impart UV resistance protection to the electronic.

Response to Arguments

The amended limitations do not positively require the protective layer to be removed. The examiner notes that all materials are technically "removable" either by some form of ablation, etching, abrasion, etc. Therefore the rejection is maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AUSTIN MURATA whose telephone number is (571)270-5596. The examiner can normally be reached on Monday through Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL CLEVELAND can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 13/135,728
Art Unit: 1712

Page 9

/AUSTIN MURATA/
Examiner, Art Unit 1712

/MICHAEL CLEVELAND/

Supervisory Patent Examiner, Art Unit 1712

<i>Index of Claims</i> 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☐ T.D.				☐ R.1.47			
CLAIM		DATE													
Final	Original	10/05/2013	01/23/2014												
	1	✓	✓												
	2	✓	✓												
	3	✓	✓												
	4	✓	✓												
	5	✓	✓												
	6	✓	✓												
	7	✓	✓												
	8	✓	✓												
	9	✓	✓												
	10	✓	✓												
	11	✓	✓												
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	22	✓	✓												
	23	✓	✓												
	24	✓	✓												
	25	✓	✓												

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3909	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L2	608	@ay<="2011" and (flexible or wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene) with (fabric or substrate or support)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L3	46	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (carbon fiber or polypropylene) with (fabric or substrate or support)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L4	34	@ay<="2011" and (wearable) near (sensor or biosensor or circuit or wiring or computer or electronic) and (polypropylene) with (fabric or substrate or support)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L5	672	@ay<="2011" and (polyester or polypropylene) with medical grade	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L6	62	(strapband or wristband or headband or wearable) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3 or form\$3 or coat\$3) with (protect\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
L7	28	(wearable) with (sens\$3 or detect\$3) with (person\$3 or individual\$3) and @ay<="2011" and (secur\$3 or attach\$3) with (sens\$3 or detect\$3) and (mold\$3 or overmold\$3) with (protect\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/01/23 14:43
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1/23/2014 3:17:23 PM

C:\Users\amurata\Documents\EAST\Workspaces\13135728.wsp

Search Notes 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
427	96.2	10/5/2013	am

SEARCH NOTES		
Search Notes	Date	Examiner
inv name search	10/5/2013	am
ids considered	10/5/2013	am
keyword search	10/5/2013	am
updated search	1/23/2014	am

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/AUSTIN MURATA/ Examiner.Art Unit 1712	
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Electronic Patent Application Fee Transmittal				
Application Number:		13135728		
Filing Date:		12-Jul-2011		
Title of Invention:		Component protective overmolding using protective external coatings		
First Named Inventor/Applicant Name:		Richard Lee Drysdale		
Filer:		Scott Susumu Kokka		
Attorney Docket Number:		ALI-001CIP1CIP1		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	200	200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
Total in USD (\$)				1400

Electronic Acknowledgement Receipt	
EFS ID:	19203407
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	03-JUN-2014
Filing Date:	12-JUL-2011
Time Stamp:	22:30:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1400
RAM confirmation Number	6670
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Fee Worksheet (SB06)	fee-info.pdf	31550 742072e61181fadd8da2c74dd23056501b28a5ff	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				31550	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL **(Submitted Only via EFS-Web)**

Application Number	13/135,728	Filing Date	2011-07-12	Docket Number (if applicable)	ALI-001CIP1CIP1	Art Unit	1712
First Named Inventor	Richard Lee Drysdale			Examiner Name	MURATA, Austin		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☐ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Doc code: RCEX

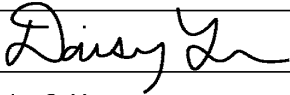
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature		Date (YYYY-MM-DD)	2014-06-03
Name	Daisy S. Yau	Registration Number	58691

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Drysdale et al.

Application Serial No.: 13/135,728

Filing Date: July 12, 2011

For: COMPONENT PROTECTIVE
OVERMOLDING USING PROTECTIVE
EXTERNAL COATINGS

Examiner: MURATA, Austin

Confirmation No.: 7731

Group Art Unit: 1712

Transmission Date: June 3, 2014

Atty. Docket No.: ALI-001CIP1CIP1

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted via the U.S. Patent and Trademark Office electronic filing system (EFS-Web) to the USPTO on **June 3, 2014**.

Signed: _____



Kate M. Cleland

AMENDMENT B

Dear Sir or Madam:

Please find enclosed a complete, updated claim listing and remarks in response to the Office Action mailed February 4, 2014.

INTERVIEW SUMMARY UNDER 37 CFR §1.133 AND MPEP §713.04

A telephonic interview in the above-referenced case was conducted on June 3, 2014 between Examiner Murata and the Applicants' undersigned representative. The Office Action mailed on February 4, 2014 was discussed. Specifically, the rejections of claims 1, 11, 12, 14-17 and 21-23 under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2011/0061150 to Surve ("Surve") in view of U.S. Patent Application Publication No. 2011/0213225 to Bernstein et al. ("Bernstein"), claims 2, 4, 5, 13 and 25 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0279086 to Park et al. ("Park") (and for claim 25, in further view of U.S. Patent Application Publication No. 2001/0042850 to Cote et al. ("Cote")), claim 3 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0100997 to Lee et al. ("Lee"), claims 5 and 6 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0042813 to Crain et al. ("Crain"), and claims 7-10, 18-20 and 24 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0217544 to Young et al. ("Young"), and the proposed amendments set forth herein were discussed with the intent to place the claims in better condition for allowance or appeal. The Applicants wish to thank the Examiner for his time and attention in this case.

CLAIM LISTING

Please amend claims 1, 12, and 21 as indicated below.

1. (Currently amended) A method, comprising:
selectively applying a material substantially over a framework configured to be worn and coupled to one or more elements configured to perform an operation using data from one or more sensory inputs;
molding a protective layer substantially over the framework and the material, after the material has been selectively applied, the protective layer being removable; ~~and~~
removing the protective layer if a defect is detected;
molding another protective layer substantially over the framework and the material, after the protective layer has been removed if the defect is detected; and
depositing a coating over the another protective layer, the coating having a protective property.
2. (Original) The method of claim 1, wherein the framework is comprised of a synthetic fiber.
3. (Original) The method of claim 1, wherein the framework is formed using carbon fiber.
4. (Original) The method of claim 1, wherein the framework is comprised of one or more filaments.

5. (Original) The method of claim 1, wherein the framework is formed using a thermoplastic elastomer.
6. (Original) The method of claim 5, wherein the thermoplastic elastomer comprises polypropylene.
7. (Original) The method of claim 1, wherein the coating is anti-bacterial.
8. (Original) The method of claim 1, wherein the coating is oleophobic
9. (Original) The method of claim 1, wherein the coating is configured to protect against ultraviolet radiation.
10. (Original) The method of claim 1, wherein the coating is hydrophobic.
11. (Original) The method of claim 1, wherein the coating is configured to provide a waterproof seal over the framework and the one or more elements.

12. (Currently amended) A method, comprising:
- applying a material over a structure of a device, the device being configured to perform an operation using data from one or more sensory inputs, the material being removable; ~~and~~
- removing the material if a defect is detected;
- applying another material over the structure of the device, after the material has been removed if the defect is detected; and
- forming a coating over the another material, the coating being configured to provide a protective property.
13. (Original) The method of claim 12, wherein the material is a thermoplastic elastomer.
14. (Original) The method of claim 12, wherein the structure is substantially flexible.
15. (Original) The method of claim 12, further comprising one or more elements configured to perform the operation using the data from the one or more sensory inputs are mounted on the structure.
16. (Original) The method of claim 12, wherein the protective property is waterproofing.
17. (Original) The method of claim 12, wherein the protective property is water-resisting.
18. (Original) The method of claim 12, wherein the protective property is hydrophobic.

19. (Original) The method of claim 12, wherein the protective property is oleophobic.
20. (Original) The method of claim 12, wherein the protective property is anti-bacterial.
21. (Currently amended) A method, comprising:
selectively applying a material substantially over a framework configured to be worn and to be coupled with one or more elements, the one or more elements being configured to perform an operation using data from one or more sensory inputs; ~~and~~
molding one or more layers substantially over the framework and the material, after the material has been selectively applied, the one or more layers comprising a coating configured to protect the framework, the one or more elements, and the material and to provide a protective property, and at least one of the one or more layers being removable;
removing the at least one of the one or more layers if a defect is detected; and
molding one or more other layers substantially over the framework and the material, after the at least one of the one or more layers has been removed if the defect is detected.
22. (Original) The method of claim 21, wherein the material is configured to secure the one or more elements to the framework.
23. (Original) The method of claim 21, wherein the material is configured to protect the one or more elements from damage occurring during the molding the one or more layers substantially over the framework.

24. (Original) The method of claim 21, wherein at least one of the one or more layers is antibacterial.

25. (Original) The method of claim 21, wherein at least one of the one or more layers comprises a medical-grade thermoplastic elastomer.

REMARKS

Claims 1, 12, and 21 have been amended. Claims 1-25 remain pending.

The Examiner has rejected claims 1, 11, 12, 14-17 and 21-23 under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2011/0061150 to Surve (“Surve”) in view of U.S. Patent Application Publication No. 2011/0213225 to Bernstein et al. (“Bernstein”). The Examiner has rejected claims 2, 4, 5, 13 and 25 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0279086 to Park et al. (“Park”), and for claim 25, in further view of U.S. Patent Application Publication No. 2001/0042850 to Cote et al. (“Cote”). The Examiner has rejected claim 3 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2010/0100997 to Lee et al. (“Lee”). The Examiner has rejected claims 5 and 6 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0042813 to Crain et al. (“Crain”). The Examiner has rejected claims 7-10, 18-20 and 24 under 35 U.S.C. § 103 as being unpatentable over Surve in view of Bernstein and U.S. Patent Application Publication No. 2011/0217544 to Young et al. (“Young”).

The rejections are respectfully traversed. As amended, claim 1 recites “... removing the protective layer if a defect is detected; molding another protective layer substantially over the framework and the material, after the protective layer has been removed if the defect is detected; and depositing a coating over the another protective layer, the coating having a protective property.” Neither Surve, Bernstein, Park, Cote, Lee, Crain nor Young describe, disclose, teach, suggest, or motivate “... removing the protective layer if a defect is detected; molding another

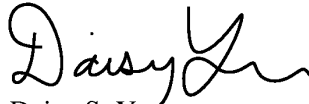
protective layer substantially over the framework and the material, after the protective layer has been removed if the defect is detected; and depositing a coating over the another protective layer, the coating having a protective property.” Thus, Applicants submit that claim 1 is allowable for the reasons stated above.

Claims 12 and 21 have been similarly amended and are believed to be allowable for the same reasons described above.

Claims 2-11, 13-20, and 22-25 depend from claims 1, 12, and 21, respectively, and are believed to be allowable for the same reasons described above.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Daisy Yau", with a stylized flourish at the end.

Daisy S. Yau
Reg. No. 58,691

KOKKA & BACKUS, PC
703 High Street
Palo Alto, CA 94301-2447
Tel: (650) 566-9916
Fax: (650) 566-9922

Electronic Patent Application Fee Transmittal				
Application Number:	13135728			
Filing Date:	12-Jul-2011			
Title of Invention:	Component protective overmolding using protective external coatings			
First Named Inventor/Applicant Name:	Richard Lee Drysdale			
Filer:	Daisy S. Yau/Kate Cleland			
Attorney Docket Number:	ALI-001CIP1CIP1			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	200	200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
Total in USD (\$)				1400

Electronic Acknowledgement Receipt	
EFS ID:	19203315
Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Daisy S. Yau
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	03-JUN-2014
Filing Date:	12-JUL-2011
Time Stamp:	22:55:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		ALI-001CIP1CIP1_Amendment_B_and_RCE_asfiled.pdf	130349 b02aff9aadcdcb64f99d0775b0dee7dccdd2deb76	yes	11

	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Request for Continued Examination (RCE)		1	2					
	Amendment Submitted/Entered with Filing of CPA/RCE		3	11					
Warnings:									
Information:									
2	Fee Worksheet (SB06)	fee-info.pdf	31627	no	2				
			5b4a32b57d5694b1de81c967f64e7938dad66418						
Warnings:									
Information:									
Total Files Size (in bytes):			161976						
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.									

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/135,728		Filing Date 07/12/2011		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)			
☒ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A		330			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		X \$ =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL		330	
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	06/03/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 25	Minus	** 25	= 0	X \$80 =		0	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

LIE
/KIMBERLY D. JONES/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1	7731
15516	7590	06/05/2014	EXAMINER	
Kokka & Backus, PC 703 High Street Palo Alto, CA 94301			MURATA, AUSTIN	
			ART UNIT	PAPER NUMBER
			1712	
			MAIL DATE	DELIVERY MODE
			06/05/2014	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/135,728	Applicant(s) DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	

All participants (applicant, applicant's representative, PTO personnel):

(1) AUSTIN MURATA. (3) ____.

(2) DAISY YAU. (4) ____.

Date of Interview: 03 June 2014.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: ____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed other possible language concerning the "removable" limitation..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/AUSTIN MURATA/ Examiner, Art Unit 1712	
--	--

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1	7731
15516	7590	10/22/2014	EXAMINER	
Kokka & Backus, PC 703 High Street Palo Alto, CA 94301			MURATA, AUSTIN	
			ART UNIT	PAPER NUMBER
			1712	
			MAIL DATE	DELIVERY MODE
			10/22/2014	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/135,728	Applicant(s) DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 6/3/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-23 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-23 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) ☒ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____ | 4) ☐ Other: ____ |

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/3/2014 has been entered.

Response to Amendment

The amendment filed 6/3/2014 has been entered and fully considered.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under pre-AIA 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of pre-AIA 35 U.S.C. 103(c) and potential pre-AIA 35 U.S.C. 102(e), (f) or (g) prior art under pre-AIA 35 U.S.C. 103(a).

Claims 1, 11, 12, 14-17, and 21-23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225).

Regarding claims 1, 12, 14, 15, and 21-23,

SURVE teaches a method of forming electronic circuits on fibers that are incorporated into wearable products **abstract**. The method includes applying the electronic component to the substrate followed by encapsulation (securing) by protective layer **225** which can individually cover each of the electrodes **223A-C**, **[0027]**. The circuitry can include electronic sensors **[0005]**. The electronic sensors will at least transmit the sensed data (performing an operation using the data). The reference

further teaches applying an additional protective shielding layer **227** but does not teach forming two layers of protecting material by molding.

However, BERSTEIN teaches that when encapsulating integrated circuits it is known to use one or more low pressure molding processes (protective inner molding, "molding a protective layer" and outer molding, "a coating over the protective layer") to protect sensitive components from subsequent thermal over-molding **[0299]**. The integrated circuits are for wearable sensor electronics **[0071]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to provide additional the protective molding layers of BERSTEIN to help shield sensitive components from a later thermal overmolding process.

The examiner notes that the claim does not positively require a step for removing the protective layer and that all materials are "removable" by some process (ablation, etching, abrasion, etc.).

Regarding claims 11, 16 and 17,

SURVE teaches the protective layer can be used to protect from harmful substances such as water (waterproof and water resistant) **[0026]**.

Claims 2, 4, 5, 13 and 25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of PARK et al. (US 2010/0279086): claim 25 is evidenced by COTE et al. (US 2001/0042850).

Regarding claim 2,

SURVE teaches forming an electronic circuit over a fiber to be woven or knitted **[0016]** but does not teach synthetic fibers. However, PARK teaches that when depositing circuitry and protective layer for a wearable device, it is known in the art to perform deposition on a fabric of fibers rather than individual fibers **[0016]**. The reference further teaches the fabric can be any type of woven or knitted fabric, non-woven fabric, and fiber web, and further specifically notes the use of synthetic fibers **[0072]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the fibrous fabric of PARK as the substrate when forming a wearable conductive circuit as a simple substitution of substrates used in wearable circuits.

Regarding claim 4,

Each fiber of the fabric in PARK is considered a "filament".

Regarding claims 5,

The synthetic fibers of PARK include polyester and polyamide **[0072]** which are thermoplastic elastomers.

Regarding claim 13,

The SURVE reference teaches applying a protective coating of resistive plastic resin **[0027]** but does not expressly teach using thermoplastic elastomer. However, PARK teaches when forming wiring patterns with wearable clothing, the conductive traces are encased in protective/insulating material that can be polyester **[0027]**.

Regarding claim 25,

Polyester is a known medical grade material, see for example COTE, US 2001/0042850.

Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of LEE et al. (US 2010/0100997).

Regarding claim 3,

The references teach fabricating wearable circuits but do not teach using carbon fiber cloths. However, LEE teaches it is known in the art to use carbon fiber cloths in wearable computers to provide EMI/RFI shielding [0078]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use carbon fiber cloth to add EMI/RFI shielding to the circuitry of SURVE.

Claims 5 and 6 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of CRAIN et al. (US 2011/0042813).

Regarding claim 5 and 6,

The references teach forming a wearable circuit but do not teach using a substrate of polypropylene. However, CRAIN teaches a printed circuit that can be used in wearable electronics [0051] that can use polypropylene as a substrate because it is inexpensive. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use a substrate of polypropylene as a simple substitution of known substrates used in wearable and further because it is inexpensive.

Claims 7-10, 18-20 and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of YOUNG et al. (US 2011/0217544)

Regarding claims 7, 20 and 24,

The references teach molding protective layers over the wearable flexible circuit but does not teach an anti-bacterial property. However, YOUNG teaches it is known in the art to incorporate additives in a molding process to impart various benefits **abstract** and **[0082]**. One of impregnated particles can be anti-bacterial agents **[0085]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the molding agents of YOUNG with the molding process of SURVE to impart beneficial properties to the molded layer.

Regarding claims 8, 10, 18 and 19,

YOUNG further discloses incorporating wetting agents **[0085]**. The "wetting" refers to both hydrophobic and oleophobic properties **[0123]**.

Regarding claim 9,

SURVE teaches is could be desired to shield a deposited transistor from electromagnetic radiation (e.g. UV light) **[0028]**. YOUNG further discloses incorporating UV-resistant agents **[0085]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to incorporated the UV resistant agents of YOUNG to impart UV resistance protection to the electronic.

Response to Arguments

Applicant argues the new limitations are not taught in the art. However, the examiner notes that the new limitations are not positively required steps. The new limitations are only performed "if a defect is detected". Therefore, when there is no defect, (more specifically defect is detected) the previous rejection applied performs all the required steps. Therefore the previous art rejection is still applicable.

For the sake of compact prosecution the examiner notes that the additional reference TOYODA et al. (US 2010/0178834) could be used to teach correction of defects by removing a protective coating and part, fixing a defect and reapplying the protective part **abstract**. The same idea of removing/reapplying the protective molding of BERNSTEIN to correct defects in the SURVE device for the benefit of repairing defected devices.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AUSTIN MURATA whose telephone number is (571)270-5596. The examiner can normally be reached on Monday through Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL CLEVELAND can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1712

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AUSTIN MURATA/
Examiner, Art Unit 1712

Notice of References Cited	Application/Control No. 13/135,728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2010/0178834	07-2010	Toyoda et al.	445/24
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L28	3	"US 20100178834"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:25
L27	5	@ay<="2011" and detect\$3 near2 defect with remov\$3 near2 (protect\$3 or encapsulat\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:22
L26	5	@ay<="2011" and detect\$3 near2 defect with remov\$3 near2 protect\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:22
L25	0	@ay<="2011" and detect\$3 near2 defect with re\$1mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:22
L24	0	@ay<="2011" and detect\$3 near2 defect with re\$1encapsulat\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:21
L23	1	@ay<="2011" and decapsulat\$3 with detect\$3 near2 defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:20
L22	1	("7326305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/20 14:10
L21	25	@ay<="2011" and ((second or again or repeat\$3) near2 (mold\$3 or over\$1mold\$3) or re\$1mold\$3) with protect\$3 near2 (coat\$3 or layer) and defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:06
L20	143	@ay<="2011" and ((second or again or repeat\$3) near2 (mold\$3 or over\$1mold\$3) or re\$1mold\$3) with protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:05
L19	143	@ay<="2011" and ((second or again or repeat\$3) near2 (mold\$3 or overmold\$3) or re\$1mold\$3) with protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:04

L18	143	@ay<="2011" and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) with protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 14:00
S93	6	@ay<="2011" and defect\$3 near2 (coat\$3 or layer) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:50
S92	0	@ay<="2011" and (remov\$3 or replac\$3 or repair\$3) near2 defect\$3 near2 (coat\$3 or layer) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:49
S91	19	@ay<="2011" and protect\$3 near2 (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:44
S90	180	@ay<="2011" and (mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:39
S89	1035	@ay<="2011" and (mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:37
S87	14	@ay<="2011" and defect\$3 with (mold\$3) near2 (coat\$3 or layer) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:35
S86	459	@ay<="2011" and defect\$3 with (protect\$3 or mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:33
S85	12	@ay<="2011" and detect\$3 with defect\$3 with (protect\$3 or mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:31
S84	67	@ay<="2011" and detect\$3 with defect\$3 with (protect\$3 or mold\$3) and (remov\$3 or replac\$3 or repair\$3) with (mold\$3 or protect\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:08
S83	2	S82 not S79	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 12:06
S82	67	@ay<="2011" and detect\$3 with defect\$3 with (protect\$3 or mold\$3) and (remov\$3 or replac\$3 or repair\$3) with (mold\$3 or protect\$3) and (second or again or	US-PGPUB; USPAT; USOCR;	ADJ	ON	2014/10/20 12:06

		repeat\$3) near2 mold\$3	DERWENT			
S81	1	("20040093115").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/20 11:56
S80	0	("2004093115").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/20 11:56
S79	65	@ay<="2011" and defect\$3 with defect\$3 with (protect\$3 or mold\$3) and (remov\$3 or replac\$3) with (mold\$3 or protect\$3) and (second or again or repeat\$3) near2 mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:51
S78	424	@ay<="2011" and defect\$3 with defect\$3 with (protect\$3 or mold\$3) and (remov\$3 or replac\$3) with (mold\$3 or protect\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:47
S77	12	@ay<="2011" and defect\$3 near2 (remov\$3 or replac\$3) with mold\$3 and mold\$3 near2 protect\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:45
S76	84	@ay<="2011" and defect\$3 near2 (remov\$3 or replac\$3) and mold\$3 near2 protect\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:44
S75	1	@ay<="2011" and defect\$3 with mold\$3 and 427/154.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:43
S74	0	@ay<="2011" and defective near2 (replac\$3 or remov\$3) and 427/154.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:43
S73	0	@ay<="2011" and defective near2 (replac\$3 or remov\$3) near2 protect\$3 and protect\$3 near2 mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:42
S72	6	@ay<="2011" and defective near2 (replac\$3 or remov\$3) and protect\$3 near2 mold\$3 and (mold\$3 or protect\$3 or re\$1mold\$3) with defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:41
S71	49	@ay<="2011" and defective near2 (replac\$3 or remov\$3) and protect\$3 near2 mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:38
S70	116	@ay<="2011" and defective near2 (replac\$3 or remov\$3) with (re\$1mold\$3 or mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:34

S69	329	@ay<="2011" and defect\$3 near2 (replac\$3 or remov\$3) with (re\$1mold\$3 or mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:17
S68	0	@ay<="2011" and defect\$3 near2 (replac\$3 or remov\$3) with re\$1mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:17
S67	32	@ay<="2011" and defect\$3 with defect with (replac\$3 or remov\$3) with mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:15
S66	1	("20110213225").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/10/20 11:13
S65	1	(wearable) with (biologic\$2 or biosensor or electronic) and @ay<="2011" and protect\$3 with defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:12
S64	0	(wearable) with (biologic\$2 or biosensor or electronic) and @ay<="2011" and mold\$3 with defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:12
S63	11	(wearable) with (biologic\$2 or biosensor or electronic) and @ay<="2011" and (replac\$3 or remov\$3) with mold\$3 and defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:10
S62	62	(wearable) with (biologic\$2 or biosensor or electronic) and @ay<="2011" and (replac\$3 or remov\$3) with mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:09
S61	0	(wearable) with (biologic\$2 or biosensor or electronic) and @ay<="2011" and defect with (replac\$3 or remov\$3) with mold\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2014/10/20 11:08

EAST Search History (Interference)

<This search history is empty>

10/ 20/ 2014 2:37:42 PM**C:\ Users\ amurata\ Documents\ EAST\ Workspaces\ 13135728.wsp**

<i>Index of Claims</i> 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant										☐ CPA										☐ T.D.										☐ R.1.47									
CLAIM		DATE																																					
Final	Original	10/05/2013	01/23/2014	10/20/2014																																			
	1	✓	✓	✓																																			
	2	✓	✓	✓																																			
	3	✓	✓	✓																																			
	4	✓	✓	✓																																			
	5	✓	✓	✓																																			
	6	✓	✓	✓																																			
	7	✓	✓	✓																																			
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Search Notes 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
427	96.2	10/5/2013	am

SEARCH NOTES		
Search Notes	Date	Examiner
inv name search	10/5/2013	am
ids considered	10/5/2013	am
keyword search	10/5/2013	am
updated search	1/23/2014	am
updated search	10/20/2014	am

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/AUSTIN MURATA/ Examiner.Art Unit 1712	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Drysdale et al.**

Application Serial No.: **13/135,728**

Filing Date: **July 12, 2011**

For: **Component Protective Overmolding
Using Protective External Coatings**

Examiner: **MURATA, Austin**

Confirmation No.: **7731**

Group Art Unit: **1712**

Transmission Date: **April 22, 2015**

Atty. Docket No.: **ALI-001CIP1CIP1**

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted via the U.S. Patent and Trademark Office electronic filing system (**EFS-Web**) to the USPTO on **April 22, 2015**.

Signed: _____


Kate M. Cleland

AMENDMENT C

Dear Sir or Madam:

Please find enclosed a complete, updated claim listing and remarks in response to the **Non-Final Office Action** mailed **October 22, 2014**.

AMENDMENTS TO THE CLAIMS: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method, comprising:

selectively applying a material substantially over a framework configured to be worn and coupled to one or more elements configured to perform an operation using data from one or more sensory inputs;

molding a protective layer substantially over the framework and the material, after the material has been selectively applied, the protective layer being removable;

detecting a defect in the protective layer;

removing the protective layer ~~if a~~ after the defect is detected;

molding another protective layer substantially over the framework and the material, after the protective layer has been removed ~~if the defect is detected~~ ; and

depositing a coating over the another protective layer, the coating having a protective property.

2. (Original) The method of claim 1, wherein the framework is comprised of a synthetic fiber.

3. (Original) The method of claim 1, wherein the framework is formed using carbon fiber.
4. (Original) The method of claim 1, wherein the framework is comprised of one or more filaments.
5. (Original) The method of claim 1, wherein the framework is formed using a thermoplastic elastomer.
6. (Original) The method of claim 5, wherein the thermoplastic elastomer comprises polypropylene.
7. (Original) The method of claim 1, wherein the coating is anti-bacterial.
8. (Original) The method of claim 1, wherein the coating is oleophobic
9. (Original) The method of claim 1, wherein the coating is configured to protect against ultraviolet radiation.
10. (Original) The method of claim 1, wherein the coating is hydrophobic.
11. (Original) The method of claim 1, wherein the coating is configured to provide a waterproof seal over the framework and the one or more elements.

12. **(Currently Amended)** A method, comprising:

applying a material over a structure of a device, the device being configured to perform an operation using data from one or more sensory inputs, the material being removable;

detecting a defect in the material;

removing the material ~~if a~~ **after the** defect is detected;

applying another material over the structure of the device, after the material has been removed ~~if the defect is detected~~ ; and

forming a coating over the another material, the coating being configured to provide a protective property.

13. (Original) The method of claim 12, wherein the material is a thermoplastic elastomer.

14. (Original) The method of claim 12, wherein the structure is substantially flexible.

15. (Original) The method of claim 12, further comprising one or more elements configured to perform the operation using the data from the one or more sensory inputs are mounted on the structure.
16. (Original) The method of claim 12, wherein the protective property is waterproofing.
17. (Original) The method of claim 12, wherein the protective property is water-resisting.
18. (Original) The method of claim 12, wherein the protective property is hydrophobic.
19. (Original) The method of claim 12, wherein the protective property is oleophobic.
20. (Original) The method of claim 12, wherein the protective property is anti-bacterial.

21. **(Currently Amended)** A method, comprising:

selectively applying a material substantially over a framework configured to be worn and to be coupled with one or more elements, the one or more elements being configured to perform an operation using data from one or more sensory inputs;

molding one or more layers substantially over the framework and the material, after the material has been selectively applied, the one or more layers comprising a coating configured to protect the framework, the one or more elements, and the material and to provide a protective property, and at least one of the one or more layers being removable;

detecting a defect in at least one of the one or more layers;

removing the at least one of the one or more layers ~~if a~~ **after the** defect is detected; and

molding one or more other layers substantially over the framework and the material, after the at least one of the one or more layers has been removed ~~if the defect is detected~~ .

22. (Original) The method of claim 21, wherein the material is configured to secure the one or more elements to the framework.

23. (Original) The method of claim 21, wherein the material is configured to protect the one or more elements from damage occurring during the molding the one or more layers substantially over the framework.
24. (Original) The method of claim 21, wherein at least one of the one or more layers is antibacterial.
25. (Original) The method of claim 21, wherein at least one of the one or more layers comprises a medical-grade thermoplastic elastomer.

REMARKS

The status of the claims is as follows: **Claims 1 – 25** are **Pending**; and **Claims 1, 12** and **21** have been **Amended** herein.

Support for the amendments can at least be found in **FIGS. 6A – 6D** of the **Drawings**, in the **Claims**, and in Paragraphs **[0034] – [0044]** of the **Detailed Description** of the present application as originally filed.

Claims 1, 11, 12, 14 – 17 and **21 – 23** are rejected under **pre-AIA 35 U.S.C. §103(a)** as being unpatentable in view of the cited sections of U.S. Published Patent Application No. **2011/0061150** to *Surve* and in view of the cited sections of U.S. Published Patent Application No. **2011/0213225** to *Bernstein*.

Claims 2, 4, 5, 13 and **25** are rejected under **pre-AIA 35 U.S.C. §103(a)** as being unpatentable in view of the cited sections of *Surve*, *Bernstein* and in view of the cited sections of U.S. Published Patent Application No. **2010/0279086** to *Park* and in view of the cited sections of U.S. Published Patent Application No. **2001/0042850** to *Cote*.

Claim 3 is rejected under **pre-AIA 35 U.S.C. §103(a)** as being unpatentable in view of the cited sections of *Surve*, *Bernstein* and in view of the cited sections of U.S. Published Patent Application No. **2010/0100997** to *Lee*.

Claims 5 and 6 are rejected under **pre-AIA 35 U.S.C. §103(a)** as being unpatentable in view of the cited sections of *Surve*, *Bernstein* and in view of the cited sections of U.S. Published Patent Application No. **2011/0042813** to *Crain*.

Claims 7 – 10, 18 – 20 and 24 are rejected under **pre-AIA 35 U.S.C. §103(a)** as being unpatentable in view of the cited sections of *Surve*, *Bernstein* and in view of the cited sections of U.S. Published Patent Application No. **2011/0217544** to *Young*.

The rejections are respectfully traversed.

Independent **Claims 1, 12, 21** and their respective dependent claims are not **pre-AIA 35 U.S.C. §103(a)** unpatentable in view of the cited sections of *Surve* and *Bernstein* because each and every element of the claimed invention is not disclosed, described, taught, suggested, motivated, or shown in the cited sections of *Surve* and *Bernstein* considered individually or in combination.

Accordingly, **Claims 1, 11, 12, 14 – 17 and 21 – 23** are patentably distinct, are non-obvious and are not anticipated by the cited sections of *Surve* and *Bernstein* and the **pre-AIA 35 U.S.C. §103(a)** rejections of **Claims 1, 11, 12, 14 – 17 and 21 – 23** ought to now be withdrawn and **Claims 1, 11, 12, 14 – 17 and 21 – 23** ought to now be allowed.

Claims 2, 4, 5, 13 and 25 depend from their respective base **Claims 1, 12 and 21** and are not **pre-AIA 35 U.S.C. §103(a)** unpatentable in view of the cited sections of *Surve*, *Bernstein*, *Park* and *Cote* for at least the same reasons as argued above.

Accordingly, **Claims 2, 4, 5, 13 and 25** are patentably distinct, are non-obvious and are not anticipated by the cited sections of *Surve*, *Bernstein*, *Park* and *Cote* and the **pre-AIA 35 U.S.C. §103(a)** rejections of **Claims 2, 4, 5, 13 and 25** ought to now be withdrawn and **Claims 2, 4, 5, 13 and 25** ought to now be allowed.

For at least the same reasons as argued above, **Claim 3** depends from **Claim 1** and is patentably distinct, is non-obvious and is not anticipated by the cited sections of *Surve*, *Bernstein* and *Lee*.

Accordingly, the **pre-AIA 35 U.S.C. §103(a)** rejection of **Claim 3** ought to now be withdrawn and **Claim 3** ought to now be allowed.

For at least the same reasons as argued above, **Claims 5 and 6** depend from **Claim 1** and are patentably distinct, are non-obvious and are not anticipated by the cited sections of *Surve*, *Bernstein* and *Crain*.

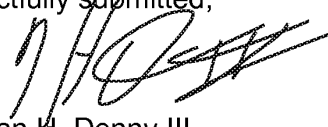
Accordingly, the **pre-AIA 35 U.S.C. §103(a)** rejections of **Claims 5 and 6** ought to now be withdrawn and **Claims 5 and 6** ought to now be allowed.

For at least the same reasons as argued above, **Claims 7 – 10, 18 – 20 and 24** depend from their respective base **Claims 1, 12 and 21** and are patentably distinct, are non-obvious and are not anticipated by the cited sections of *Surve*, *Bernstein* and *Young*.

Accordingly, the **pre-AIA 35 U.S.C. §103(a)** rejections of **Claims 7 – 10, 18 – 20 and 24** ought to now be withdrawn and **Claims 7 – 10, 18 – 20 and 24** ought to now be allowed.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'T. H. Denny III', written over a horizontal line.

Trueman H. Denny III
Reg. No. **44,652**

KOKKA & BACKUS, PC
703 High Street
Palo Alto, CA 94301-2447
Tel: (650) 566-9917
Fax: (650) 566-9922

Electronic Patent Application Fee Transmittal				
Application Number:		13135728		
Filing Date:		12-Jul-2011		
Title of Invention:		Component protective overmolding using protective external coatings		
First Named Inventor/Applicant Name:		Richard Lee Drysdale		
Filer:		Trueman Homer Denny/Kate Cleland		
Attorney Docket Number:		ALI-001CIP1CIP1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	1253	1	1400	1400
Miscellaneous:				
Total in USD (\$)				1400

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Application Number:	13135728
International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Trueman Homer Denny
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	22-APR-2015
Filing Date:	12-JUL-2011
Time Stamp:	23:54:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	ALI-001CIP1CIP1_Amendment_C_asfiled.pdf	149854 518d955c31b1a2414c600b2fc6743c5d2770753c	no	11

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30130 fbbed15ae2f072727782f9c1c3ca2cf56105a fd6	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				179984	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Patent Application Fee Transmittal				
Application Number:		13135728		
Filing Date:		12-Jul-2011		
Title of Invention:		Component protective overmolding using protective external coatings		
First Named Inventor/Applicant Name:		Richard Lee Drysdale		
Filer:		Scott Susumu Kokka		
Attorney Docket Number:		ALI-001CIP1CIP1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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Miscellaneous:				
Total in USD (\$)				1400

Electronic Acknowledgement Receipt	
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International Application Number:	
Confirmation Number:	7731
Title of Invention:	Component protective overmolding using protective external coatings
First Named Inventor/Applicant Name:	Richard Lee Drysdale
Customer Number:	15516
Filer:	Scott Susumu Kokka
Filer Authorized By:	
Attorney Docket Number:	ALI-001CIP1CIP1
Receipt Date:	22-APR-2015
Filing Date:	12-JUL-2011
Time Stamp:	23:55:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1400
RAM confirmation Number	9127
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	30176	no	2
			f64610fb7b2f6090e289ab230bfedbf4f72bf5da		
Warnings:					
Information:					
Total Files Size (in bytes):			30176		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 13/135,728		Filing Date 07/12/2011		☒ To be Mailed	
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ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO							
APPLICATION AS FILED – PART I							
(Column 1)		(Column 2)					

FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))			If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).		
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED – PART II							
(Column 1)		(Column 2)		(Column 3)			

AMENDMENT	04/22/2015	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 25	Minus	** 25	= 0	X \$80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

(Column 1)		(Column 2)		(Column 3)			
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AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/ANGELA JOHNSON/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/135,728	07/12/2011	Richard Lee Drysdale	ALI-001CIP1CIP1	7731
15516	7590	07/16/2015	EXAMINER	
Kokka & Backus, PC 703 High Street Palo Alto, CA 94301			MURATA, AUSTIN	
			ART UNIT	PAPER NUMBER
			1712	
			MAIL DATE	DELIVERY MODE
			07/16/2015	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/135,728	Applicant(s) DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/22/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-25 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-25 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 4) ☐ Other: ____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Amendment

The amendment filed 4/22/2015 has been entered and fully considered.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 11, 12, 14-17, and 21-23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of NAGAYAMA (US 2008/0237872), MCPHERSON et al. (US 3,791,858) and TSUJIMURA et al. (US 2010/0002401).

Regarding claims 1, 12, 14, 15, and 21-23,

SURVE teaches a method of forming electronic circuits on fibers that are incorporated into wearable products **abstract**. The method includes applying the electronic component to the substrate followed by encapsulation (securing) by protective layer **225** which can individually cover each of the electrodes **223A-C**, **[0027]**. The circuitry can include electronic sensors **[0005]**. The electronic sensors will at least transmit the sensed data (performing an operation using the data). The reference further teaches applying an additional protective shielding layer **227** but does not teach forming two layers of protecting material by molding.

However, BERSTEIN teaches that when encapsulating integrated circuits it is known to use one or more low pressure molding processes (protective inner molding, "molding a protective layer" and outer molding, "a coating over the protective layer") to protect sensitive components from subsequent thermal over-molding [0299]. The integrated circuits are for wearable sensor electronics [0071]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to provide additional the protective molding layers of BERSTEIN to help shield sensitive components from a later thermal overmolding process.

The combination teaches encapsulating circuits for wearable electronics but do not teach detection of defects or replacing a protective layer when a defect is detected. However, protective layers are used for a reason and when there are cracks (defects) in the protective layer it causes exposure of the underlying electronic devices, which is a bad thing, see for example NAGAYAMA which described degradation due to moisture and oxygen [0002]. Although NAGAYAMA teaches a complicated detection method, the reference also notes that detection can be performed by visual inspection or image processing [0004]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to detect defects in a protective layer according to NAGAYAMA to ensure the integrity of the protective layer that is used to prevent degradation of the underlying electronic device.

NAGAYAMA teaches repairing the protective layer of an electrical device but does not teach removing the protective layer and depositing another protective layer. However, when performing quality testing on an electrical device, repair and

replacement are known options for fixing faults, see MCPHERSON **column 5 lines 3-9**.

At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to replace a defective part rather than repair the defective part as a known method of correcting faults. Furthermore, easy replacement of protective layers are known in the art according to TSUJIMURA **abstract** and **[0008]**. TSUJIMURA **Fig. 1** teaches a protective layer **10** can have a first layer and second layer **1** and **2** (depositing a coating over the another protective layer). At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to repair defective defects by replacement as a known mechanism for "repair". In addition, at the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the replacement process of TSUJIMURA to make the replacement easier.

Regarding claims 11, 16 and 17,

SURVE teaches the protective layer can be used to protect from harmful substances such as water (waterproof and water resistant) **[0026]**. Similarly, the protective layer of TRUJIMURA is moisture-proof **abstract**.

Claims 2, 4, 5, 13 and 25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of NAGAYAMA (US 2008/0237872), MCPHERSON et al. (US 3,791,858) and TSUJIMURA et al. (US 2010/0002401) in further view of PARK et al. (US 2010/0279086): claim 25 is evidenced by COTE et al. (US 2001/0042850).

Regarding claim 2,

SURVE teaches forming an electronic circuit over a fiber to be woven or knitted **[0016]** but does not teach synthetic fibers. However, PARK teaches that when depositing circuitry and protective layer for a wearable device, it is known in the art to perform deposition on a fabric of fibers rather than individual fibers **[0016]**. The reference further teaches the fabric can be any type of woven or knitted fabric, non-woven fabric, and fiber web, and further specifically notes the use of synthetic fibers **[0072]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the fibrous fabric of PARK as the substrate when forming a wearable conductive circuit as a simple substitution of substrates used in wearable circuits.

Regarding claim 4,

Each fiber of the fabric in PARK is considered a "filament".

Regarding claims 5,

The synthetic fibers of PARK include polyester and polyamide **[0072]** which are thermoplastic elastomers.

Regarding claim 13,

The SURVE reference teaches applying a protective coating of resistive plastic resin **[0027]** but does not expressly teach using thermoplastic elastomer. However, PARK teaches when forming wiring patterns with wearable clothing, the conductive traces are encased in protective/insulating material that can be polyester **[0027]**.

Regarding claim 25,

Polyester is a known medical grade material, see for example COTE, US 2001/0042850.

Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of LEE et al. (US 2010/0100997).

Regarding claim 3,

The references teach fabricating wearable circuits but do not teach using carbon fiber cloths. However, LEE teaches it is known in the art to use carbon fiber cloths in wearable computers to provide EMI/RFI shielding [0078]. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use carbon fiber cloth to add EMI/RFI shielding to the circuitry of SURVE.

Claims 5 and 6 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of NAGAYAMA (US 2008/0237872), MCPHERSON et al. (US 3,791,858) and TSUJIMURA et al. (US 2010/0002401) in further view of CRAIN et al. (US 2011/0042813).

Regarding claim 5 and 6,

The references teach forming a wearable circuit but do not teach using a substrate of polypropylene. However, CRAIN teaches a printed circuit that can be used in wearable electronics [0051] that can use polypropylene as a substrate because it is inexpensive. At the time of the invention it would have been prima facie obvious to one

of ordinary skill in the art to use a substrate of polypropylene as a simple substitution of known substrates used in wearable and further because it is inexpensive.

Claims 7-10, 18-20 and 24 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over SURVE (US 2011/0061150) in view of BERNSTEIN et al. (US 2011/0213225) in further view of NAGAYAMA (US 2008/0237872), MCPHERSON et al. (US 3,791,858) and TSUJIMURA et al. (US 2010/0002401) in further view of YOUNG et al. (US 2011/0217544)

Regarding claims 7, 20 and 24,

The references teach molding protective layers over the wearable flexible circuit but does not teach an anti-bacterial property. However, YOUNG teaches it is known in the art to incorporate additives in a molding process to impart various benefits **abstract** and **[0082]**. One of impregnated particles can be anti-bacterial agents **[0085]**. At the time of the invention it would have been prima facie obvious to one of ordinary skill in the art to use the molding agents of YOUNG with the molding process of SURVE to impart beneficial properties to the molded layer.

Regarding claims 8, 10, 18 and 19,

YOUNG further discloses incorporating wetting agents **[0085]**. The "wetting" refers to both hydrophobic and oleophobic properties **[0123]**.

Regarding claim 9,

SURVE teaches is could be desired to shield a deposited transistor from electromagnetic radiation (e.g. UV light) **[0028]**. YOUNG further discloses incorporating UV-resistant agents **[0085]**. At the time of the invention it would have been prima facie

obvious to one of ordinary skill in the art to incorporate the UV resistant agents of YOUNG to impart UV resistance protection to the electronic.

Response to Arguments

In view of the amendments, the claims now require a step of detecting a defect and consequently replacing a protective layer with another protective layer that is further coated. The examiner has provided an additional reference to teach detection of defects in the protective layer to improve lifetime of the devices. The examiner provided an additional reference to teach "repairing" of a defect includes replacement of the defective part. The examiner provided a third additional reference to teach easy replacement of a protective layer.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AUSTIN MURATA whose telephone number is (571)270-5596. The examiner can normally be reached on Monday through Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL CLEVELAND can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AUSTIN MURATA/
Primary Examiner, Art Unit 1712

Application/Control Number: 13/135,728
Art Unit: 1712

Page 10

Notice of References Cited	Application/Control No. 13/135,728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.	
	Examiner AUSTIN MURATA	Art Unit 1712	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2008/0237872	10-2008	Nagayama, Kenichi	257/773
*	B	US-3,791,858	02-1974	McPherson et al.	430/314
*	C	US-2010/0002401	01-2010	TSUJIMURA et al.	361/748
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
427	96.2	10/5/2013	am

SEARCH NOTES		
Search Notes	Date	Examiner
inv name search	10/5/2013	am
ids considered	10/5/2013	am
keyword search	10/5/2013	am
updated search	1/23/2014	am
updated search	10/20/2014	am
updated search	7/12/2015	am

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/AUSTIN MURATA/ Primary Examiner.Art Unit 1712
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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	67	@ay<="2011" and detect\$3 with defect\$3 with (protect\$3 or mold\$3) and (remov\$3 or replac\$3 or repair\$3) with (mold\$3 or protect\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:27
L2	1	@ay<="2011" and decapsulat\$3 with detect\$3 near2 defect	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:27
L3	462	@ay<="2011" and defect\$3 with (protect\$3 or mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:27
L4	182	@ay<="2011" and (mold\$3) with (remov\$3 or replac\$3 or repair\$3) and ((second or again or repeat\$3) near2 mold\$3 or re\$1mold\$3) and mold\$3 near2 protect\$3 near2 (coat\$3 or layer)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:28
L5	4	427/96.2.ccls. and (replac\$3 or \$3deposit\$3 or \$3coat\$3) with repair\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:28
L6	5	@ay<="2011" and detect\$3 near2 defect with remov\$3 near2 protect\$3	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/07/13 10:28

EAST Search History (Interference)

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7/ 13/ 2015 10:29:26 AM**C:\ Users\ amurata\ Documents\ EAST\ Workspaces\ 13135728.wsp**

<i>Index of Claims</i> 	Application/Control No. 13135728	Applicant(s)/Patent Under Reexamination DRYSDALE ET AL.
	Examiner AUSTIN MURATA	Art Unit 1712

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant						☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE									
Final	Original	10/05/2013	01/23/2014	10/20/2014	07/12/2015						
	1	✓	✓	✓	✓						
	2	✓	✓	✓	✓						
	3	✓	✓	✓	✓						
	4	✓	✓	✓	✓						
	5	✓	✓	✓	✓						
	6	✓	✓	✓	✓						
	7	✓	✓	✓	✓						
	8	✓	✓	✓	✓						
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	12	✓	✓	✓	✓						
	13	✓	✓	✓	✓						
	14	✓	✓	✓	✓						
	15	✓	✓	✓	✓						
	16	✓	✓	✓	✓						
	17	✓	✓	✓	✓						
	18	✓	✓	✓	✓						
	19	✓	✓	✓	✓						
	20	✓	✓	✓	✓						
	21	✓	✓	✓	✓						
	22	✓	✓	✓	✓						
	23	✓	✓	✓	✓						
	24	✓	✓	✓	✓						
	25	✓	✓	✓	✓						

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3502102

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
ALIPHCOM	08/26/2015
MACGYVER ACQUISITION LLC	08/26/2015
ALIPH, INC.	08/26/2015
BODYMEDIA, INC.	08/26/2015
PROJECT PARIS ACQUISITION LLC	08/26/2015
RECEIVING PARTY DATA	
Name:	BLACKROCK ADVISORS, LLC
Street Address:	1 UNIVERSITY SQUARE DRIVE
Internal Address:	C/O GLOBAL ALLOCATION GROUP
City:	PRINCETON
State/Country:	NEW JERSEY
Postal Code:	08540
PROPERTY NUMBERS Total: 604	
Property Type	Number
Application Number:	10159770
Application Number:	13069244
Application Number:	13069264
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Application Number:	13753441
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Application Number:	29516016
Application Number:	29516017
Application Number:	29517054
Application Number:	29517056

CORRESPONDENCE DATA

Fax Number: (617)235-9802

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6179517860

Email: ronald.duvernay@ropesgray.com

Correspondent Name: JOSHUA S. JACKSON

Address Line 1: PRUDENTIAL TOWER, 800 BOYLSTON STREET

Address Line 2: ROPES & GRAY LLP

Address Line 4: BOSTON, MASSACHUSETTS 02199-3600

ATTORNEY DOCKET NUMBER:	MFOG-652
NAME OF SUBMITTER:	JOSHUA S. JACKSON
SIGNATURE:	/j jackson/
DATE SIGNED:	08/27/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 32

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AMENDED AND RESTATED PATENT SECURITY AGREEMENT

THIS AMENDED AND RESTATED PATENT SECURITY AGREEMENT (as it may be amended, restated or otherwise modified from time to time, the “Patent Security Agreement”) is entered into as of August 26, 2015 by and among (i) AliphCom, a California corporation (the “Company”), MacGyver Acquisition LLC, a Delaware limited liability company, Aliph, Inc., a Delaware Corporation, BodyMedia, Inc., a Delaware corporation, and Project Paris Acquisition LLC, a Delaware limited liability company (each, a “Grantor”, and collectively, the “Grantors”), and (ii) BlackRock Advisors, LLC, a Delaware limited liability company (the “Agent”).

W I T N E S S E T H:

WHEREAS, each of the Grantors, the Purchasers identified therein and the Agent are entering into the Note Purchase Agreement, dated as of April 28, 2015, as amended by the First Amendment to Note Purchase Agreement; Omnibus Amendment to Secured Convertible Promissory Notes and Limited Consent, dated as of July 22, 2015 (as amended, restated, supplemented, or otherwise modified from time to time, the “Existing Note Purchase Agreement”), pursuant to which the Company issued certain secured convertible promissory notes (the “Notes”) and the other Grantors agreed to Guarantee the Obligations;

WHEREAS, each of the Grantors and the Agent entered into the original Security Agreement, dated as of April 28, 2015 (as amended, restated, supplemented, or otherwise modified from time to time, the “Original Security Agreement”), in order to induce the Purchasers to purchase the Notes and to secure the Secured Obligations; and

WHEREAS, pursuant to the Original Security Agreement, each of the Grantors is required to execute and deliver to Agent the original Patent Security Agreement, dated as of April 28, 2015 (the “Original Patent Security Agreement”);

WHEREAS, each of the Grantors, the Purchasers identified therein and the Agent entered into the Note Purchase Agreement, dated as of July 21, 2015 (as amended, restated, supplemented, or otherwise modified from time to time, the “July 2015 Note Purchase Agreement”), pursuant to which the Company issued certain additional Notes and the other Grantors agreed to Guarantee the Secured Obligations;

WHEREAS, each of the Grantors and the Agent entered into the Amended and Restated Security Agreement, dated as of July 22, 2015 (as amended, restated, supplemented, or otherwise modified from time to time, the “Security Agreement”), in order to induce the Purchasers to purchase the additional Notes and to secure the Secured Obligations; and

WHEREAS, the parties to the Original Patent Security Agreement wish to amend and restate the Original Patent Security Agreement in its entirety;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

1. **DEFINED TERMS.** All initially capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement, and this Patent Security Agreement shall be subject to the rules of construction set forth in the Security Agreement, which rules of construction are incorporated herein by this reference, *mutatis mutandis*.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Each Grantor does hereby unconditionally grant, assign, and pledge to Agent, and agrees to unconditionally grant, assign, and pledge to Agent, for its benefit and the benefit of each of the Noteholders, to secure the Secured Obligations, as applicable, a continuing security interest (referred to in this Patent Security Agreement as the “Security Interest”) in all of such Grantor’s entire right, title and interest in and to the following, whether now owned or hereafter acquired or arising (collectively, the “Patent Collateral”):

(a) all of such Grantor’s Patents and Patent Intellectual Property Licenses to which it is a party including those referred to on Schedule I;

(b) all applications, improvements, divisionals, continuations, continuations-in-part, reissues, reexaminations, or extensions of the foregoing, foreign counterparts, and the inventions covered thereby;

(c) all files and records relating to the prosecution, exploitation, and defense of any of the foregoing, and all rights of action pertaining to the Grantor’s Patents; and

(d) all products and proceeds of the foregoing, including any claim by such Grantor against third parties for past, present or future infringement of any Patent or any Patent exclusively licensed under any Intellectual Property License, including the right to receive damages, or right to receive license fees, royalties, and other compensation under any Patent Intellectual Property License.

3. SECURITY FOR SECURED OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by Grantors, or any of them, to Agent, or the Noteholders, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving any Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interests granted to Agent, for its benefit and the benefit of the Noteholders, pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Security Agreement, the Security Agreement shall control.

5. AUTHORIZATION TO SUPPLEMENT. If any Grantor shall obtain rights to any new patent application or issued patent or become entitled to the benefit of any patent application or patent for any improvement, divisional, continuation, continuation-in-part, reissue, or reexamination of any existing patent or patent application, or any inventions covered thereby, the provisions of this Patent Security Agreement shall automatically apply thereto. Grantors hereby authorize Agent unilaterally to modify this Patent Security Agreement by amending Schedule I to include any such new patent rights of each Grantor. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend Schedule I shall in any way affect, invalidate or detract from Agent’s continuing security interest in all Collateral, whether or not listed on Schedule I.

6. COUNTERPARTS. This Patent Security Agreement is a Note Document. This Patent Security Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Patent Security Agreement. Delivery

of an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Patent Security Agreement. Any party delivering an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart of this Patent Security Agreement but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Patent Security Agreement.

7. CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER. THIS PATENT SECURITY AGREEMENT SHALL BE SUBJECT TO THE PROVISIONS REGARDING CHOICE OF LAW AND VENUE AND JURY TRIAL WAIVER SET FORTH IN SECTIONS 8.16, 8.17 AND 8.18 OF THE SECURITY AGREEMENT, AND SUCH PROVISIONS ARE INCORPORATED HEREIN BY THIS REFERENCE, *MUTATIS MUTANDIS*.

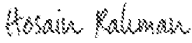
8. ORIGINAL PATENT SECURITY AGREEMENT AMENDED AND RESTATED. This Patent Security Agreement is an amendment and restatement of the Original Patent Security Agreement. This Patent Security Agreement is in no way intended to constitute a novation of the Original Patent Security Agreement or the "Obligations" (as defined in the Existing Note Purchase Agreement and the July 2015 Note Purchase Agreement). Any security granted pursuant to or in connection with the Original Patent Security Agreement and the other documents executed in connection therewith shall continue to secure the Secured Obligations.

[signature page follows]

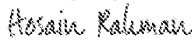
IN WITNESS WHEREOF, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

GRANTORS:

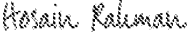
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a California corporation

DocuSigned by:

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Name: Hosain Rahman
Title: Chief Executive Officer

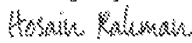
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a Delaware corporation

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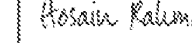
MACGYVER ACQUISITION, LLC,
a Delaware limited liability company
by **ALIPHCOM**, as sole member

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By: DE4D8FA187D24C0...
Name: Hosain Rahman
Title: Chief Executive Officer

BODYMEDIA, INC.,
a Delaware corporation

DocuSigned by:

By: DE4D8FA187D24C0...
Name: Hosain Rahman
Title: Chief Executive Officer

PROJECT PARIS ACQUISITION LLC, a
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by **ALIPHCOM**, as sole member

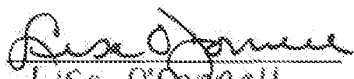
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Name: Hosain Rahman
Title: Chief Executive Officer

[SIGNATURE PAGE TO AMENDED AND RESTATED PATENT SECURITY AGREEMENT]

AGENT:

ACCEPTED AND ACKNOWLEDGED BY:

BLACKROCK ADVISORS, LLC

By: 
Name: Lisa D'Donnell
Title: Managing Director, Authorized Signatory

[SIGNATURE PAGE TO AMENDED AND RESTATED PATENT SECURITY AGREEMENT]

SCHEDULE I
to
PATENT SECURITY AGREEMENT

Patents

Current Owner	Country	Patent No.	Application No.	Filed
Aliph, Inc.	U.S.	7246058B2	10159770	5/30/2002
Aliph, Inc.	U.S.		13069244	3/22/2011
Aliph, Inc.	U.S.		13069264	3/22/2011
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Aliph, Inc.	U.S.	8,942,383	13753441	1/29/2013
Aliph, Inc.	U.S.	D0609901S	29333427	3/9/2009
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Aliphcom, Inc.	U.S.	8467543B2	10400282	3/27/2003
Aliphcom, Inc.	U.S.	8019091B2	10667207	9/18/2003
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Aliphcom	U.S.	D0648709S	29377627	10/22/2010
Aliphcom	U.S.	D0648726S	29377628	10/22/2010
Aliphcom	U.S.	D0645024S	29378325	11/2/2010
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AliphCom	U.S.	D0652019S	29378328	11/2/2010
AliphCom	U.S.	D0652020S	29378329	11/2/2010
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AliphCom	U.S.	D0678865S	29413572	2/16/2012

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AliphCom	U.S.		14/121,947	11/4/2014
AliphCom	U.S.		14/121,948	11/4/2014
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AliphCom	U.S.		14/480,628	9/8/2014
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AliphCom	U.S.		14/486,997	9/15/2014

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BodyMedia, Inc.	U.S.	7261690B2	9923181	8/6/2001
BodyMedia, Inc.	U.S.	7020508B2	10227575	8/22/2002
Bodymedia, Inc.	U.S.	7153262B2	10313255	12/6/2002
BodyMedia	U.S.		10612894	7/7/2003
BodyMedia, Inc.	U.S.	8157731B2	10682293	10/9/2003
BodyMedia, Inc.	U.S.	7285090B2	10682759	10/9/2003
BodyMedia, Inc.	U.S.	8398546B2	10940214	9/13/2004
BodyMedia, Inc.	U.S.	7502643B2	10940889	9/13/2004
BodyMedia, Inc.	U.S.	8663106B2	11088002	3/22/2005

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Bodymedia, Inc.	U.S.	8961413	11434949	5/16/2006
Bodymedia, Inc.	U.S.	8403845	11481147	7/5/2006
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Bodymedia, Inc.	U.S.	8961414B2	11724373	3/15/2007
Bodymedia, Inc.	U.S.	7,959,567	11876623	10/22/2007
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BODYMEDIA, INC.	U.S.		13761557	2/7/2013

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BodyMedia, Inc.	U.S.	D0460971S	29143975	6/21/2001
BodyMedia, Inc.	U.S.	D632396	29256362	3/20/2006
BodyMedia, Inc.	U.S.	D631552	29256753	3/24/2006

BodyMedia, Inc.	U.S.	D0645968S	29383860	1/24/2011
BodyMedia, Inc.	U.S.	D0698028S	29434003	10/9/2012
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BodyMedia, Inc.	U.S.		95/002,382	9/14/2012
Project Paris Acquisition LLC	U.S.		14039258	9/27/2013
University of Maryland, College park Office of Technology Commercialization	U.S.	6,399,306	9622910	9/5/2000
University of Maryland, College park Office of Technology Commercialization	U.S.	6743587	9986989	11/13/2001
	U.S.		29445284	2/8/2013

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	U.S.		29/517,054	2/9/2015
	U.S.		29/517,056	2/9/2015

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