

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Attorney Docket No. Q213216	
		First Named Inventor Fabien POULARD	
		Title	FLUID PRODUCT DISPENSER
		Express Mail Label No.	
APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>		Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450	
1. <input type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent) 2. <input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27. 3. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. <input checked="" type="checkbox"/> Specification [Total Pages <u>19</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>13</u>] 6. Inventor's Oath or Declaration [Total Sheets <u> </u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) 7. <input checked="" type="checkbox"/> Application Data Sheet. *See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>) <input type="checkbox"/> Landscape Table on CD 9. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (<i>if applications, items a. – c. are required</i>) a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies		ACCOMPANYING APPLICATION PAPERS 10. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee <u>APTAR FRANCE SAS</u> 11. <input type="checkbox"/> 37 CFR 3.73(c) Statement <input type="checkbox"/> Power of Attorney (<i>when there is an assignee</i>) 12. <input type="checkbox"/> English Translation Document (<i>if applicable</i>) 13. <input checked="" type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 14. <input type="checkbox"/> Preliminary Amendment 15. <input type="checkbox"/> Return Receipt PostCard (MPEP § 503)(<i>Should be specifically itemized</i>) 16. <input type="checkbox"/> Certified Copy of Priority Document(s) (<i>if foreign priority is claimed</i>) 17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. <input checked="" type="checkbox"/> Priority is claimed from: SEE ATTACHED 19. <input type="checkbox"/> Other:	
Note: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 must be included in an Application Data Sheet (ADS). (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).			
<input checked="" type="checkbox"/> The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.			
20. 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: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: 10/556,432 Prior application information: Examiner: NGO, LIEN M Art Unit: 3754			
21. CORRESPONDENCE ADDRESS			
WASHINGTON OFFICE <div style="display: flex; justify-content: space-between; align-items: center;"> <div> <input checked="" type="checkbox"/> The address associated with Customer Number: </div> <div style="font-size: 1.5em; font-weight: bold;">23373</div> <div> OR <input type="checkbox"/> Correspondence address below </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"> <div>CUSTOMER NUMBER</div> <div></div> </div>			
Signature /Ellen R. Smith/		Date October 9, 2014	
Name Ellen R. Smith		Registration No. 43,042	

UTILITY PATENT APPLICATION TRANSMITTAL
ADDITIONAL PAGE

Priority is claimed from:

Country	Application No	Filing Date
US	10/556,432	2005-11-09
PCT	PCT/FR04/01189	2004-05-14
FR	03/05858	2003-05-15

The priority document(s) were filed in parent Application No. 10/556,432.

Attorney Docket No.		Q213216
CORRESPONDENCE ADDRESS		
<input checked="" type="checkbox"/> The address associated with Customer Number:	WASHINGTON OFFICE 23373 CUSTOMER NUMBER	OR <input type="checkbox"/> Correspondence address below

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Appln. No.: Not Yet Assigned

Group Art Unit: 3754 (Parent)

Confirmation No.: Not Yet Assigned

Examiner: NGO, LIEN M (Parent)

Filed: October 9, 2014

For: FLUID PRODUCT DISPENSER

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97 and 1.98**

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

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form which are all the references of record in parent application No. 10/556,432. Applicant is not submitting duplicate copies of these references but requests that they be listed on the face of any patent granted on the above application. (See 37 CFR §1.98(d)). Copies of any cited copending applications, if not previously submitted, are being submitted herewith.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97 and 1.98
U.S. Appln. No.: Not Yet Assigned

Attorney Docket No.: Q213216

SUGHRUE MION, PLLC
Telephone: 202.293.7060
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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: October 9, 2014

/Ellen R. Smith/

Ellen R. Smith

Registration No. 43,042

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	Not Yet Assigned
Confirmation Number	Not Yet Assigned
Filing Date	October 9, 2014
First Named Inventor	Fabien POULARD
Art Unit	3754 (Parent)
Examiner Name	NGO, LIEN M (Parent)
Attorney Docket Number	Q213216

U.S. PATENTS

Examiner Initials	Cite No	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	5349945	A	1994-09-27	WASS et al.	
	2.	5718355	A	1998-02-17	GARBY et al.	
	3.	5904139	A	1999-05-18	HAUSER	
	4.	6161724	A	2000-12-19	BLACKER et al.	
	5.	6155251	A	2000-12-05	HAUSER	
	6.	6328037	B1	2001-12-11	SCARROTT et al.	
	7.	6752153	B1	2004-06-22	Eckert	
	8.	6679251	B1	2004-01-20	Gallem et al.	
	9.	6481438	B1	2002-11-19	Gallem et al.	
	10.	6446627	B1	2002-09-10	Bowman et al.	
	11.	6142339		2000-11-07	Blacker et al.	
	12.	6164494		2000-12-26	Marelli	
	13.	4817822		1989-04-04	Rand et al.	
	14.	4565302		1986-01-21	Pfeiffer et al.	
	15.	7650883	B2	2010-01-26	Scarrott et al.	
	16.	5611444		1997-03-18	Garby et al.	
	17.	5988496		1999-11-23	Bruna	
	18.	6234148	B1	2001-05-22	Hartke et al.	
	19.	7191918	B2	2007-03-20	Ouyang et al.	
	20.	6234168	B1	2001-05-22	Bruna	

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initials	Cite No	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	21.	20020195102	A1	2002-12-26	Rand et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	22.	93/24167	WO	A1	1993-12-09	Norton Healthcare Limited		
	23.	98/52634	WO	A1	1998-11-26	PA Consulting Services Limited		
	24.	98/56444	WO	A1	1998-12-17	Glaxo Group Limited		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	Not Yet Assigned
Confirmation Number	Not Yet Assigned
Filing Date	October 9, 2014
First Named Inventor	Fabien POULARD
Art Unit	3754 (Parent)
Examiner Name	NGO, LIEN M (Parent)
Attorney Docket Number	Q213216

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	25.	00/09187	WO	A1	2000-02-24	Joseph Wicherath GmbH & Co Kg		
	26.	00/21593	WO	A1	2000-04-20	Pari GmbH Spezialisten fur Eff		
	27.	00/59806	WO	A1	2000-10-12	Bespak PLC		
	28.	01/28887	WO	A1	2001-04-26	Glaxo Group Limited		
	29.	01/37909	WO	A1	2001-05-31	Ernst Horlins Ingenjorbyra AB		
	30.	0 254 391	EP	A1	1988-01-27	Glaxo Group Limited		
	31.	0 949 584	EP	A2	1999-10-13	Bason, Neil Peter		
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	33.	1 163 922	EP	A2	2001-12-19	Glaxo Group Limited		
	34.	1 065 477	EP	A2	2001-01-03	Microspray Delta S.p.A.		
	35.	100 61 723	DE	A1	2002-07-11	Eckert		
	36.	0 480 488	EP	A1	1992-04-15	Marelli		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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[Page 2 of 2]

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		FLUID PRODUCT DISPENSER		
First Named Inventor/Applicant Name:		Fabien POULARD		
Filer:		Ellen Resnick Smith/Mariko Motomura		
Attorney Docket Number:		Q213216		
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	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1600

Electronic Acknowledgement Receipt	
EFS ID:	20372811
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Mariko Motomura
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	09-OCT-2014
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Time Stamp:	12:57:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1600
RAM confirmation Number	11993
Deposit Account	194880
Authorized User	SUGHRUE MION, PLLC
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p>	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Q213216Specificationasfiled.pdf	64970 32ece07507acea528650c84748b9b921655a13a1	yes	19
Multipart Description/PDF files in .zip description					
	Document Description		Start		End
	Specification		1		17
	Claims		18		18
	Abstract		19		19
Warnings:					
Information:					
2	Drawings-only black and white line drawings	Q213216Drawingsasfiled.pdf	311027 e59fb20ed832061002c00f117edc6b5f66e0fe6f	no	13
Warnings:					
Information:					
3	Application Data Sheet	Q213216ADSasfiled.pdf	103381 d0239842ff76ea0f149093983c4cdcbcf19ccdfdf	no	7
Warnings:					
Information:					
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4	Fee Worksheet (SB06)	Q213216FeeTransmittalasfiled.pdf	15646 224085633a577b0d69a1aedbb6c94604b489bd9	no	1
Warnings:					
Information:					
5	Transmittal of New Application	Q213216TransmittalofNewApplicationasfiled.pdf	18463 e2f9900f9acf35e50210e3a3a8e9cb93a1a918fb	no	2
Warnings:					
Information:					
6		Q213216IDSasfiled.pdf	23588 fa6f935fa862ddb8a42cd5e8ee933addab94ad3	yes	4

	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Transmittal Letter		1	2					
	Information Disclosure Statement (IDS) Form (SB08)		3	4					
Warnings:									
Information:									
7	Fee Worksheet (SB06)	fee-info.pdf	32810	no	2				
			f878644cbd854b3e499017c3668ac2346ee1db39						
Warnings:									
Information:									
Total Files Size (in bytes):			569885						
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>									

FLUID PRODUCT DISPENSER

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This is a continuation application of U.S. Patent Application No. 10/556,432, filed November 9, 2005, which is the National Stage of International Application No. PCT/FR2004/001189 filed May 14, 2004, claiming priority based on French Patent Application No. 03/05858, filed May 15, 2003, the disclosures of which are hereby incorporated by reference.

TECHNICAL FIELD

[0002] The present invention relates to a fluid dispenser, and more particularly to such a dispenser including a dose indicator device for indicating to the user the number of doses that have been dispensed or that remain to be dispensed from the reservoir of said fluid dispenser.

BACKGROUND

[0003] Dose indicator devices are well known, and can include either counters, displaying a number corresponding to the number of doses that have been dispensed or that remain to be dispensed, or indicators, informing the user by means of symbols, color codes, or similar numbers, about the number of doses that have been dispensed or that remain to be dispensed. In particular, in fluid dispensers containing pharmaceuticals, it is important for the dose indicator device to function in reliable manner, and in particular for it to count the dispensing of a dose each time the fluid is dispensed, regardless of whether the dose is complete or incomplete, e.g. because of accidental actuation or actuation that is interrupted before the end of the actuation cycle. It is generally preferable for the dispensing of an incomplete dose to be counted as a complete dose rather than for it not to be counted at all, since failure to count could present a high risk to the user, informing the user of a reservoir content that is greater than the

reality. In dispensers of pharmaceuticals, it is thus generally desirable to avoid any risk of under-counting, in particular by triggering counting just before the active substance is expelled.

Another important point with dose indicator devices for dispensers of pharmaceuticals is that once actuation has taken place and a dose has been dispensed, while the dispenser is returning to its rest position, any further actuation that is performed before the end of the return stroke of the dispenser, and that would cause a complete or incomplete dose to be dispensed, should also be counted by the indicator device, likewise to avoid any risk of under-counting. In most fluid dispensers, once a dose has been dispensed, the next dose is loaded into the chamber of the dispenser member (pump or valve) while the dispenser is returning to its rest position. In order to avoid any risk of under-counting during the return stroke of the dispenser, it is desirable for the fluid dispenser to be blocked as soon as the return stroke has allowed the chamber to be filled, and until the indicator device is once again able to count the actuation of the dispenser.

SUMMARY

[0004] An object of the present invention is to provide a fluid dispenser which satisfies one or more of the above-mentioned requirements.

[0005] In particular, an object of the present invention is to provide a fluid dispenser including a dose indicator device that prevents any risk of under-counting, i.e. that guarantees that the indicator device is actuated each time fluid is dispensed by the fluid dispenser.

[0006] When the actuation of the dispenser does not cause any fluid to be dispensed, another object of the present invention is to provide such a dispenser that prevents dose dispensing from being counted, and thus prevents the dose indicator device from being actuated.

[0007] Another object of the present invention is to provide such a fluid dispenser that is simple and inexpensive to manufacture and to assemble, and that is reliable in use.

[0008] The present invention thus provides a fluid dispenser comprising a body, a fluid reservoir, a dispenser member, such as a pump or a valve, mounted on said reservoir, and a dose indicator device for indicating the number of doses of fluid that have been dispensed or that remain to be dispensed from said reservoir, the dispenser being characterized in that said dose indicator device includes a first safety system for actuating the dose indicator device once the dispenser has performed a predetermined incomplete actuation stroke, even if the dispenser does not perform the complete actuation stroke.

[0009] Preferably, said dose indicator device includes a second safety system which, during the return stroke of the dispenser after dispensing a dose, prevents the pharmaceutical from being expelled again until said dispenser has completed a predetermined incomplete return stroke, said dispenser and said dose indicator device being capable of being actuated once again, once the predetermined incomplete return stroke has been performed, even if the dispenser does not perform the complete return stroke and said dispenser is actuated once again before returning to its rest position.

[0010] Advantageously, said reservoir is axially displaceable relative to said body, said body including at least one stationary gear, said dose indicator device including a counter element that is displaceable axially and in rotation relative to said body, said counter element co-operating, while the dispenser is being actuated, firstly with said at least one stationary gear of said body, and secondly with said reservoir.

[0011] In a first embodiment of the invention, said body includes a stationary gear co-operating with a first gear of said counter element, said counter element including a second gear co-operating with an actuator gear of an actuator member of the dispenser, the teeth of said second gear and/or of said actuator gear being made so that axial displacement of the actuator

member causes said counter element to be displaced axially and in rotation, the stationary gear preventing said counter element from turning until said counter element no longer co-operates with said stationary gear, after a predetermined axial displacement of said counter element corresponding to said predetermined incomplete actuation stroke of the dispenser.

[0012] The stationary gear advantageously includes abutment means preventing said counter element from turning once said counter element has turned at least in part, an additional axial displacement of said counter element being necessary to enable it to continue to turn and/or to return the indicator device to its rest position. These abutments position the second gear of the counter element in such a manner that the dispenser is blocked on its return prior to the chamber being filled and until its rest position.

[0013] Advantageously, said abutment means comprise an axial projection.

[0014] Advantageously, said stationary gear and/or said counter element include(s) blocking means preventing the dispenser from being actuated once again, and thus preventing any pharmaceutical from being expelled once again, while the counter element is returning to its rest position after a preceding actuation, and until the dispenser has completed a predetermined incomplete return stroke, after which the indicator device can count the next dose.

[0015] Advantageously, said blocking means comprise axial projections provided on the body and on the counter element respectively, each of said projections having an axial end-profile that is plane, said projections facing each other, at least in part, until the counter element has turned sufficiently to offset said projections, with that sufficient turn corresponding to said predetermined incomplete return stroke of the dispenser.

[0016] Advantageously, the teeth of the second gear of the counter element include an intermediate step, the actuator member co-operating with said step while the dispenser is being

actuated, and co-operating with the end wall of said second gear while returning to the rest position, after being actuated, the displacement between the intermediate step and the end wall being obtained by said counter element turning.

[0017] Advantageously, once the predetermined incomplete return stroke has been performed, the actuator member is positioned facing the following tooth of the second gear of the counter element, enabling the dispenser and the dose indicator device to be actuated once again.

[0018] In a second embodiment of the present invention, said body includes a first stationary gear and a second stationary gear, said counter element including a first gear for co-operating with said first stationary gear and a second gear for co-operating with said second stationary gear, said counter element being put axially into contact with the actuator member of the dispenser by means of a return spring and being turnable relative to said actuator member, the teeth of said second gear and of said second stationary gear being oblique, at least in part, so that an axial displacement of the actuator member initially causes said counter element to be displaced axially over a predetermined incomplete actuation stroke until the oblique portion of said second gear of the counter element co-operates with said oblique portion of said second stationary gear, causing the counter element to be turned over a first portion of a turn cycle, the teeth of said first gear and of said first stationary gear being oblique, at least in part, so that when the counter element returns to its rest position, it is caused to turn so as to terminate its turn cycle, which corresponds to one actuation of the dispenser being counted.

[0019] Advantageously, said first and second stationary gears of the body and/or said first and second gears of the counter element are offset relative to each other, so that whenever the counter element is displaceable in rotation, returning said counter element to its rest position without terminating the actuation stroke of the dispenser causes the counter element to turn over

its complete turn cycle, guaranteeing that one actuation of the dispenser is counted after said predetermined incomplete actuation stroke.

[0020] Advantageously, said second stationary gear of the body and/or said second gear of the counter element include(s) blocking means preventing the dispenser from being actuated once again, and thus preventing any pharmaceutical from being expelled once again, while the counter element is returning to its rest position following a preceding actuation, and until said dispenser has performed a predetermined incomplete return stroke, after which the indicator device can count the next dose.

[0021] Advantageously, said blocking means have an axial end-profile that is plane, at least in part, and that is formed on the teeth of said second stationary gear of the body and on the teeth of said second gear of the counter element, said plane profiles of said teeth facing each other, at least in part, until the counter element has completed a turn that is sufficient to offset said teeth, with that sufficient turn corresponding to said predetermined incomplete return stroke of the dispenser.

[0022] Advantageously, said actuator member of the dispenser is secured to said reservoir and is displaced axially therewith.

[0023] In a third embodiment of the present invention, said body includes a first stationary gear and a second stationary gear, said counter element comprising a first gear for co-operating with said first stationary gear, a second gear for co-operating with said second stationary gear, and a third gear for co-operating with an actuator gear secured to an actuator member of the dispenser, the teeth of said third gear and/or of said actuator gear being made so that axial displacement of the actuator member causes said counter element to be displaced axially and in rotation, the first stationary gear preventing said counter element from turning

until said counter element no longer co-operates with said stationary gear, after a predetermined axial displacement of said counter element corresponding to said predetermined incomplete actuation stroke of the dispenser.

[0024] Advantageously, said second stationary gear of the body and/or said second gear of the counter element include(s) blocking means preventing the dispenser from being actuated once again, and thus preventing any pharmaceutical from being expelled once again, while the counter element is returning to its rest position following a preceding actuation, until said dispenser has performed a predetermined incomplete return stroke, after which the indicator device can count the next dose.

[0025] Advantageously, said blocking means have an axial end-profile that is plane and that is formed on the teeth of said second stationary gear and on the teeth of said second gear, said teeth facing each other, at least in part, until the counter element has completed a turn that is sufficient to offset said teeth, with that sufficient turn corresponding to said predetermined incomplete return stroke of the dispenser.

[0026] Advantageously, said actuator gear includes abutment means limiting the extent to which the counter element can turn, until the actuator member has performed said predetermined incomplete return stroke.

[0027] Advantageously, said abutment means comprise an axial projection formed on said actuator gear.

[0028] Advantageously, said actuator member of the dispenser is secured to said reservoir and is displaced axially therewith.

BRIEF DESCRIPTION OF THE DRAWINGS

[0029] Other characteristics and advantages of the present invention appear more clearly from the following detailed description of three embodiments thereof, given by way of non-limiting example, and with reference to the accompanying drawings, and in which:

[0030] FIGS. 1 to 8 are diagrams of a fluid dispenser constituting a first embodiment of the present invention, showing the successive positions of the dispenser during an actuation cycle;

[0031] FIGS. 9 to 12 are diagrams of a dispenser constituting a second embodiment of the present invention, also showing various positions of the dispenser during the actuation cycle; and

[0032] FIGS. 13 to 21 are diagrams of a fluid dispenser constituting a third embodiment of the present invention, showing various positions of the dispenser during the actuation cycle.

DETAILED DESCRIPTION

[0033] The descriptions of the three embodiments below relate to actuation cycles of the dispenser, and to the various functional features of the indicator device that make it possible to guarantee operational and counting reliability of said indicator device. The drawings to which the present description refers are therefore highly simplified diagrams which do not show the fluid dispenser in detail, but only in very diagrammatic manner relating to the various portions that can be moved relative to one another, for explaining the actuation cycle of said dispenser and of said indicator device.

[0034] It should be observed that the present invention applies more particularly to "Metered Dose Inhaler" (MDI) devices which comprise a metering valve mounted on a reservoir containing the fluid and a propellant gas, the displacement of the reservoir relative to the valve member causing a dose of fluid to be dispensed by means of said propellant gas. The present

invention is not limited to that particular application, but said application represents the preferred application of the present invention.

[0035] With reference to FIGS. 1 to 8, a first embodiment of the present invention is described. The dispenser includes the body 1, the reservoir 2, and a dispenser member 3 mounted on a reservoir 2. In this first embodiment, the dispenser includes a reservoir 2 that is axially displaceable in a body 1, which is considered below as being the stationary portion of the dispenser. The axial displacement of the reservoir 2 relative to the body 1 actuates the dispenser member 3 (shown in FIG. 1) and thus causes a dose of fluid to be dispensed from said reservoir. In this first embodiment, the dispenser includes an actuator member 30 on which the user exerts an axial actuation force so as to actuate the dispenser and thus displace said reservoir 2 relative to the body 1. The dispenser further includes a dose indicator device for counting or indicating the dispensing of one fluid dose each time the dispenser is actuated. Thus, by means of the indicator device, the user can tell how many doses have been dispensed from said reservoir 2, or how many doses remain inside said reservoir 2. This information must be very accurate, in particular when the fluid is a pharmaceutical, and any risk of under-counting must be eliminated. In the event of under-counting, i.e. in the event of the indicator device failing to count one or more occasions on which a dose of fluid is dispensed in full or in part, the user can end up with a dispenser that indicates that one or two doses remain in the reservoir, whereas in reality, the reservoir is empty. In the event of an asthma attack, the user can thus end up with a dispenser that is no longer functional, and that does not enable the user to take the medicine.

[0036] The present invention makes it possible to avoid any risk of under-counting. To do this, the dose indicator device includes at least one safety system, and preferably two. The first safety system guarantees that the dose indicator device is actuated, and thus that the

dispensing of a dose of fluid is counted, as soon as the dispenser, on being actuated, has traveled along a predetermined incomplete stroke. The second safety system is for preventing a dose from being expelled during the return stroke of the dispenser, while the dose indicator device is not ready to count the next dose. The dosage chamber of the dispenser is generally filled while the dispenser is returning to its rest position, after a preceding actuation. If the return stroke is not complete, but the device is actuated once again before it has returned to its rest position, it is possible for some fluid to be dispensed. However, if the dose indicator device has not returned to, or close to, its rest position, this dispensing of fluid cannot be counted. Under-counting would thus occur. In order to avoid this, the second safety system blocks any new actuation, or at least any new dispensing of fluid. Blocking is performed until the return stroke is sufficient for the dose indicator device to be actuated once again, and for it to be able to count the next dose.

[0037] In short, the present invention provides one or two safety systems that avoid any risk of the indicator device under-counting.

[0038] Initially, the first safety system is described below with reference to FIGS. 1 to 4.

[0039] With reference to these figures, it should be observed that the stationary body 1 includes a stationary gear 110, and that the indicator device comprises a counter element 20 for co-operating firstly with said stationary gear 110 of the body 1, and secondly with the actuator member 30 and/or the reservoir 2. More particularly, the counter element 20 is displaceable both axially and in rotation relative to the body 1. The counter element 20 includes a first gear 210 for co-operating with said stationary gear 110 of the body, and a second gear 230 for co-operating with an actuator gear 300 secured to the actuator member 30.

[0040] FIGS. 1 to 4 show the first half of an actuation cycle of the dispenser, i.e. the displacement of the dispenser from the rest position (shown in FIG. 1) to the actuated position

(shown in FIG. 4). Thus, when the user presses on the actuator member 30 so as to displace said actuator member axially downwards in FIG. 1, the oblique profile of the teeth of the actuator gear 300 and of the second gear 230 of the counter element urge the counter element 20 to be displaced axially downwards, and also in rotation because of the oblique profile of the above-mentioned gears. However, while the first gear 210 of the counter element 20 is co-operating with the stationary gear 110 of the body 1, the counter element 20 is prevented from turning at all. Consequently, at the start of the actuation stroke of the dispenser, and thus of the actuator member 30, the counter element 20 can be displaced only axially together with the actuator member 30, without being able to turn. When the system reaches the position shown in FIG. 2, the axial displacement of the counter element 20 has also caused the reservoir 2 to be displaced axially over a first fraction of the actuation stroke. In the position shown in FIG. 2, the first gear 210 of the counter element 20 reaches a position in which it no longer co-operates with the stationary gear 110 of the body 1. As a result, the counter element, which is urged to turn by the force exerted on the actuator member 30, can turn relative to the body 1. As soon as the counter element starts to turn a little, the dose indicator device is actuated and the counting of one dose of fluid is initiated. This incomplete axial displacement stroke of the counter element 20 corresponds to said predetermined incomplete actuation stroke of the dispenser, and more particularly of the reservoir 2. In this type of dispenser, the dose of fluid is not necessarily expelled at the end of the actuation stroke, but starting from a predetermined incomplete stroke, which is itself a function of the displacement of the valve member, or a function of the displacement of the piston in a pump. By making the co-operation of the first gear 210 of the counter element with the stationary gear 110 of the body 1 correspond with said predetermined incomplete actuation stroke of the dispenser, it is ensured that, as soon as there is any possibility

of the fluid being dispensed from the reservoir 2, then the indicator device counts one dose as being dispensed.

[0041] FIG. 3 shows that the stationary gear 110 of the body 1 includes abutment means 115, preferably formed by an axial projection co-operating with the first gear 210 of the counter element 20, and which abutment means cause the counter element to be axially displaced once again, by a very small but non-zero amount, so as to enable sufficient meshing of the actuator gear 300 in the first step, defined by the abutment 235 on the second gear 230. Thus, the chamber of the dispenser cannot be filled unless the abutment 235 has been passed over. Once it has been passed over, the actuator gear 300 is positioned at the second step or the end wall of the second gear 230 of the counter element 20, before the dispenser chamber is filled, so as to prevent the pharmaceutical from being expelled, as shown in FIG. 6.

[0042] Continuing the actuation stroke brings the reservoir 2 into the position shown in FIG. 4, in which the complete actuation stroke has been performed, and the entire dose has been expelled from the reservoir. However, it should be observed that even if the user ceases to exert force on the actuator member 30 before the end of the complete actuation stroke, the indicator device counts the dispensing of one dose as soon as the incomplete actuation stroke has been performed, so that any under-counting is prevented thereby.

[0043] With reference to FIGS. 5 to 8, the second stage of the actuation cycle of the dispenser is described below, namely the return from the dispensing position to the rest position (shown in FIG. 8). With reference to FIG. 5, it should be observed that when the user releases the pressure on the actuator member 30, the return spring (not shown) of the dispenser returns the reservoir 2 to its rest position by displacing the reservoir 2 axially relative to the body 1 in the direction opposite to the direction of the above-described actuation displacement. The

displacement of the reservoir 2 causes the counter element 20 to be axially displaced, so that the first gear 210 comes to co-operate once again with the stationary gear 110 of the body 1, but this time via the oblique portions, thereby causing said counter element to turn, so as to terminate the counting cycle of the indicator device. While the counter element is turning relative to the body 1 during the return stroke, it should be observed that the actuator member 30 comes to co-operate with the end wall of the second gear 230 of the counter element 20, whereas during the actuation stage, the actuator gear 300 co-operates with the first step, defined by the abutment 235, formed on said second gear 230 of the counter element 20.

[0044] FIG. 6 is a diagram showing an attempt to perform a new actuation before the dispenser has completed its return stroke. It should be observed that the body 1 includes axial projections 120 that co-operate with axial projections 220 formed on the counter element 20. In a variant, the axial projections 120, 220 can be replaced by gears 122, 222 of corresponding shape. Preferably, the axial end-profiles of said projections 120 and 220 are formed by planes, and the axial projections 120 and 220 are disposed facing each other, at least in part, so that if the return stroke of the dispenser is insufficient, it is impossible to expel a new dose of fluid, as shown in FIG. 6. In order to be able to actuate the dispenser once again, it is necessary for the counter element 20 to turn sufficiently about its axis of rotation, for said projections 120 and 220 to be offset relative to each other, thereby enabling a new actuation. The offset is achieved by freeing the actuator member 30 from the end wall of the second gear 230 of the counter element 20, so as to position it facing the first step, defined by the abutment 235 of the following tooth. The new actuation can be permitted before the dispenser has completed its return stroke, as soon as the indicator device is once again capable of counting a new actuation of the dispenser. The present invention makes it possible to fulfill this requirement, as shown in FIG. 7, in which the return

stroke is not complete, but the actuator member 30 of the dispenser, and in particular the actuator gear 300, is in a position in which it can co-operate with the next tooth of the second gear 230 of the counter element, so that a new actuation at this moment causes the counter element to turn through the end of its preceding cycle, thereby causing said axial projections 120 and 220 to be offset, and thus enabling the dispenser and the dose indicator device to be actuated once again. The aim is to prevent expulsion when the chamber is full, so long as the counter is not ready to count another dose.

[0045] In FIG. 8, the device is returned to its initial rest position and a new actuation cycle can be performed.

[0046] FIGS. 9 to 12 show a second embodiment of the invention. The second embodiment differs from the first embodiment as follows: Firstly, the body 1 includes two stationary gears 110 and 122, and the counter element 20 includes two gears 210, 222, each co-operating with one of the stationary gears of the body. The stationary gear 122 and the gear 222 are used in this embodiment in place of the axial projections 120 and 220. The actuator member 30 is secured to the reservoir 2, and the counter element 20 is axially displaceable with said actuator member 30. It can be turned relative to said actuator member 30. In fact, in the second embodiment, there is not really an actuator member, but the user generally displaces the reservoir 2 itself, relative to the body 1, so as to perform the actuation. The second stationary gear 122 of the body 1 and the second gear 222 of the counter element include respective portions 121 and 221 that are oblique, at least in part, and said portions co-operate with each other while the dispenser is being actuated. The oblique portions urge the counter element 20 to turn, and thus initiate a counting cycle of the dose indicator device. As shown in FIGS. 9 and 10, while the dispenser is being actuated, the counter element is firstly displaced axially without turning, by

being secured to the actuator member 30 and the reservoir 2. Once the dispenser has performed the predetermined incomplete actuation stroke, the oblique portions 121, 221 of the second gears 122, 222 co-operate so as to cause the actuator member to turn, as shown in FIG. 10.

[0047] It should be observed that if, in the position shown in FIG. 10, the user stops actuating the dispenser, the system returns to its rest position by means of a return spring 50, and the counting cycle is completed since the first gear 210 of the counter element 20 comes to co-operate with the teeth of the first stationary gear 110 so as to urge the counter element 20 to turn even more, in order to bring it to the end of its counting cycle. The first safety system is thus provided in that the actuation of the dose indicator device is ensured as soon as the dispenser has performed its predetermined incomplete actuation stroke, from which at least some fluid can be dispensed (a full dose or an incomplete dose).

[0048] FIG. 11 shows the actuated position in which the complete actuation stroke has been performed, and FIG. 12 shows the second safety means, provided by means of the second stationary gear 122, and the second gear 222 of the counter element 20. The two gears also include respective plane portions, each having a plane axial end-profile, so that when the return stroke of the dispenser is not sufficient, as can be seen in FIG. 12, a new actuation of the system brings the counter element 20 into axial abutment with the second stationary gear 122 via their plane end-portions, thereby preventing any pharmaceutical from being expelled, by preventing the dispenser from being actuated. It is only once a predetermined incomplete return stroke has been performed that the oblique portions of the second gears 122 and 222 are facing each other, so as to enable the dispenser and the dose indicator device to be actuated once again.

[0049] FIGS. 13 to 21 show a third embodiment of the present invention. The third embodiment differs from the second embodiment in that the counter element 20 is not axially

secured to the actuator member 30 and to the reservoir. The actuator member 30 and the reservoir 2 include an actuator gear 300 that co-operates with a third gear 230 provided on the counter element 20. In the third embodiment, turning of the counter element 20 during the actuation stroke of the dispenser is thus no longer caused by the second stationary gear 122, but by means of the third gear 230 and the actuator gear 300. The third embodiment is thus a combination of the first and second embodiments described above. At the start of actuation, when in the situation in FIG. 13, the co-operation between the first stationary gear 110 and the first gear 210 of the counter element 20, prevents the counter element 20 from turning, and thus causes said counter element to be axially displaced. When in the position shown in FIG. 14, the above-mentioned first gears no longer co-operate, and the oblique profiles of the teeth of the actuator gear 300 and of the third gear 230 of the counter element 20, cause the counter element 20 to turn. This takes place after said incomplete actuation stroke of the dispenser, after which a complete or incomplete dose of fluid can be dispensed. FIG. 15 shows that if the axial actuation force is eliminated at this moment, the return spring 50 causes the counter element to turn through its complete counting cycle, thereby preventing any risk of under-counting.

[0050] FIG. 16 shows the final actuated position in which the complete actuation stroke has been performed. At this moment, when the user releases the actuation force on the actuator member 30, the system rises under the effect of the return spring 50, and the co-operation between the first gears 210 and 110 of the counter element 20 and the body 1, respectively, causes the counter element to continue to turn. This continued turning is blocked in the actuator gear 300 by abutment means 305. With reference to FIG. 18, if in this position the user presses once again on the actuator member 30, it should be observed that actuation of the dispenser and of the counter device is prevented as a result of the second gear 222 of the counter element, and

the second stationary gear 122 of the body 1, facing each other at their plane axial end-profiles.

FIG. 19 shows an attempt to perform an actuation while the second safety system is operational.

For the dispenser and the dose indicator device to be actuated once again, it is necessary to perform a predetermined incomplete return stroke, which is shown in FIG. 20. If from this position the user actuates again, the counter element 20 would turn, thereby enabling the dispenser and the indicator device to be actuated once again.

[0051] Finally, FIG. 21 shows the position in which such an attempt to perform an additional actuation is made, after said incomplete return stroke has been completed.

[0052] Naturally the detailed description of the three embodiments given above is not limiting, and other embodiments can be envisaged without going beyond the ambit of the present invention, as defined by the accompanying claims.

CLAIMS

1. A fluid dispenser comprising:
 - a plurality of displayable dose values;
 - a stationary body comprising at least one stationary multi-toothed gear;
 - a first member that is displaceable axially relative to said stationary body;
 - a second member that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body;and
 - when said first member displaces axially, said second member is caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values.
2. The fluid dispenser according to claim 1, wherein the stationary body, the first member, and the second member are arranged to have a common central longitudinal axis, and the first member is displaceable axially along the central longitudinal axis, and the second member is displaceable axially along the central longitudinal axis and is displaceable rotationally around the central longitudinal axis.
3. The fluid dispenser according to claim 1, wherein the second member comprises at least one multi-toothed gear.

ABSTRACT

A fluid dispenser comprising a body (1), a fluid reservoir (2), a dispenser member, such as a pump or a valve, mounted on said reservoir (2), and a dose indicator device for indicating the number of doses of fluid that have been dispensed or that remain to be dispensed from said reservoir, the dispenser being characterized in that said dose indicator device includes a first safety system for actuating the dose indicator device once the dispenser has performed a predetermined incomplete actuation stroke, even if the dispenser does not perform the complete actuation stroke.

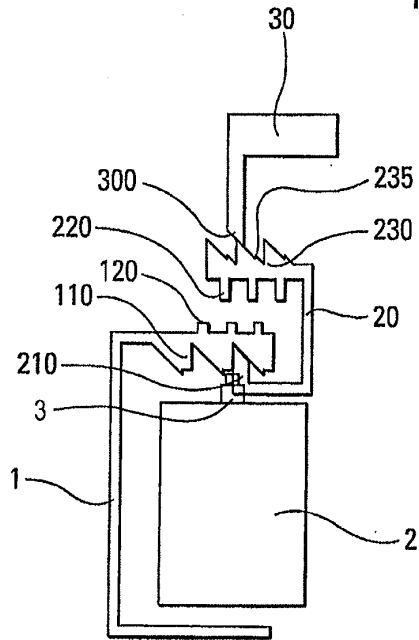


Fig. 1

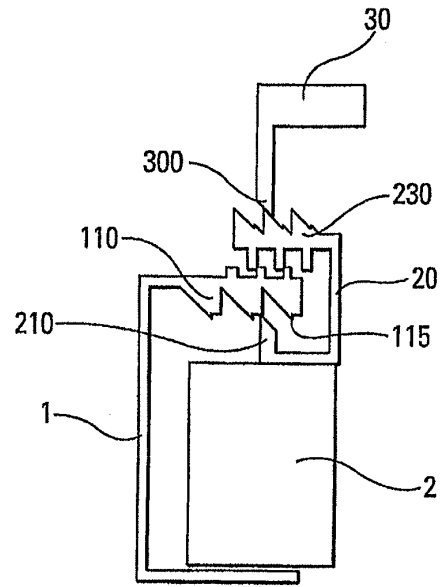


Fig. 2

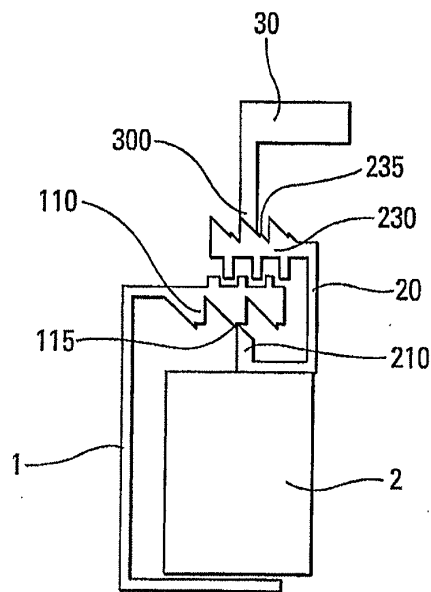


Fig. 3

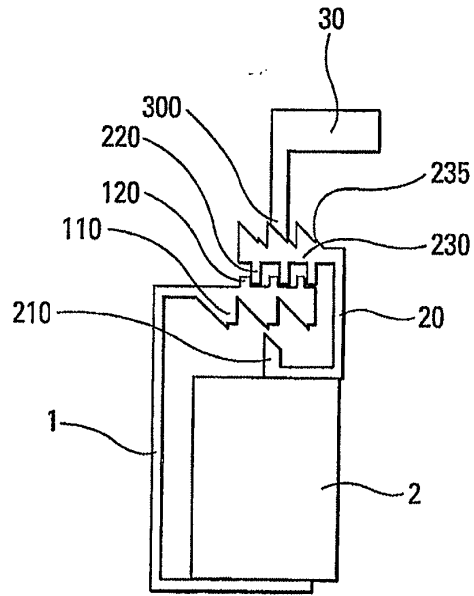


Fig. 4

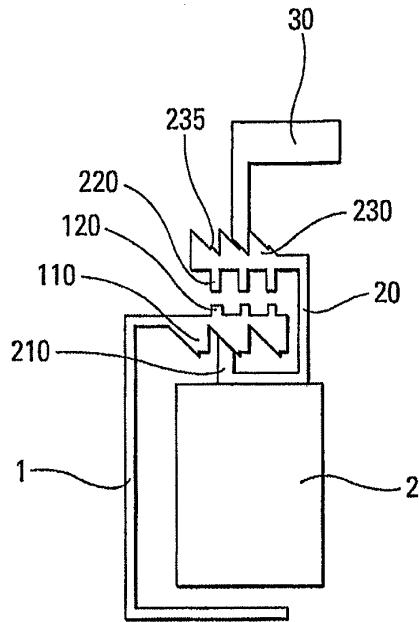


Fig. 5

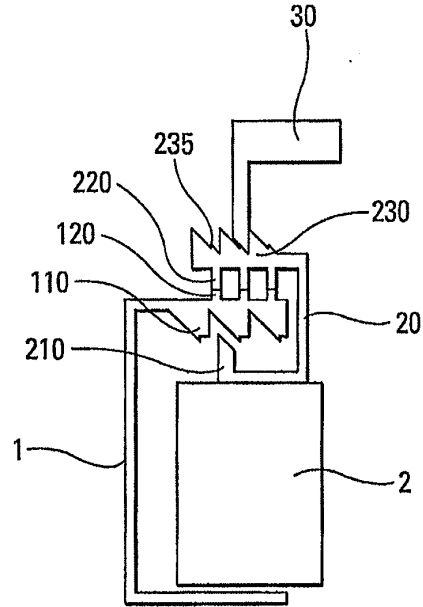


Fig. 6

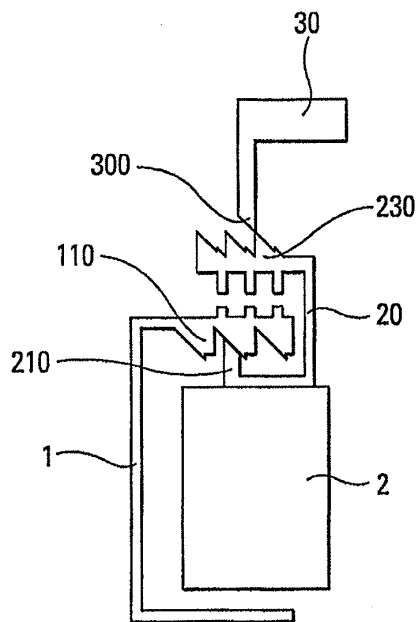


Fig. 7

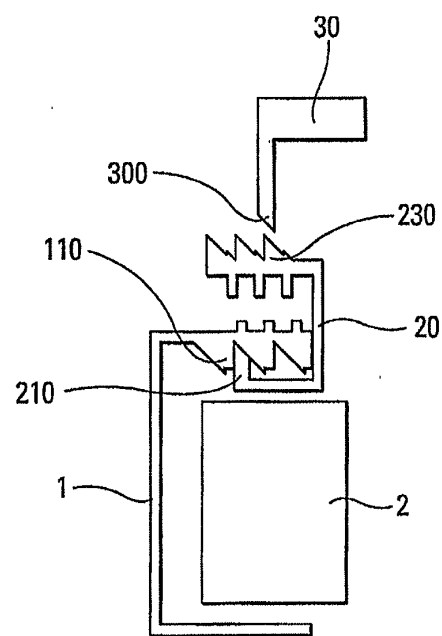


Fig. 8

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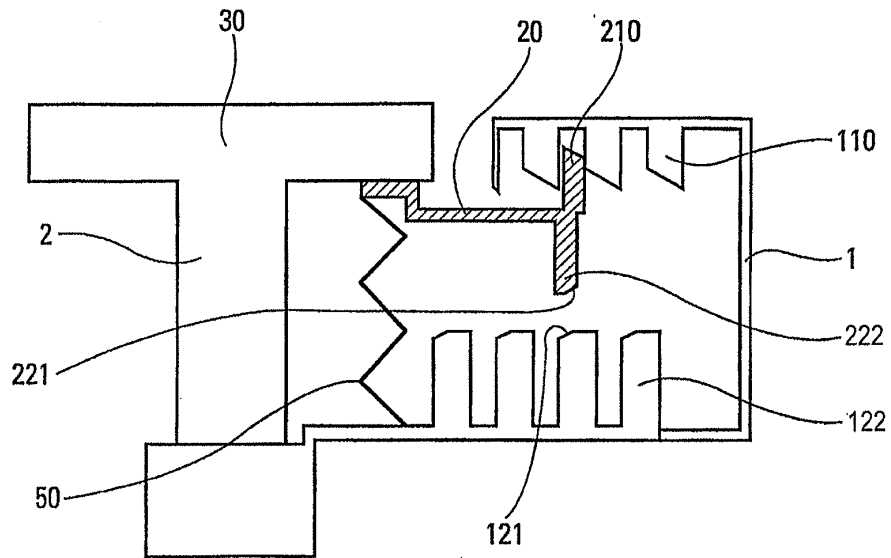


Fig. 9

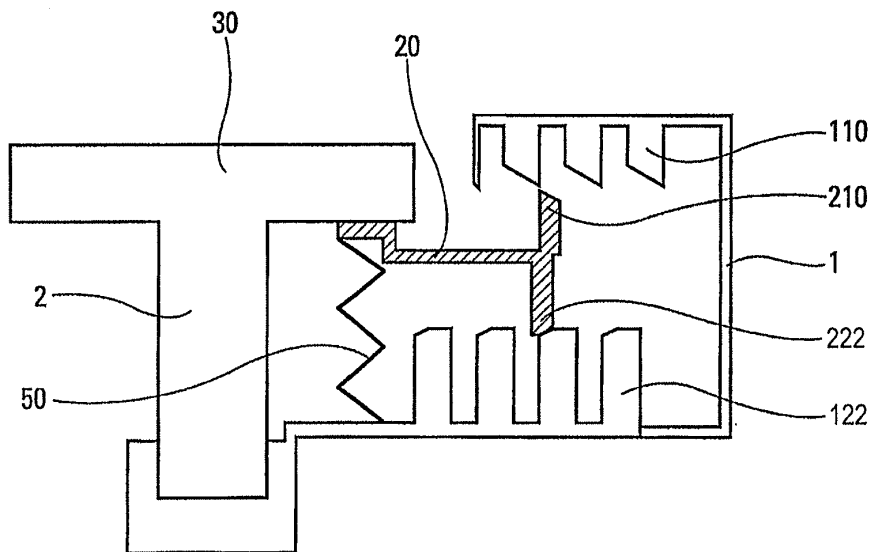


Fig. 10

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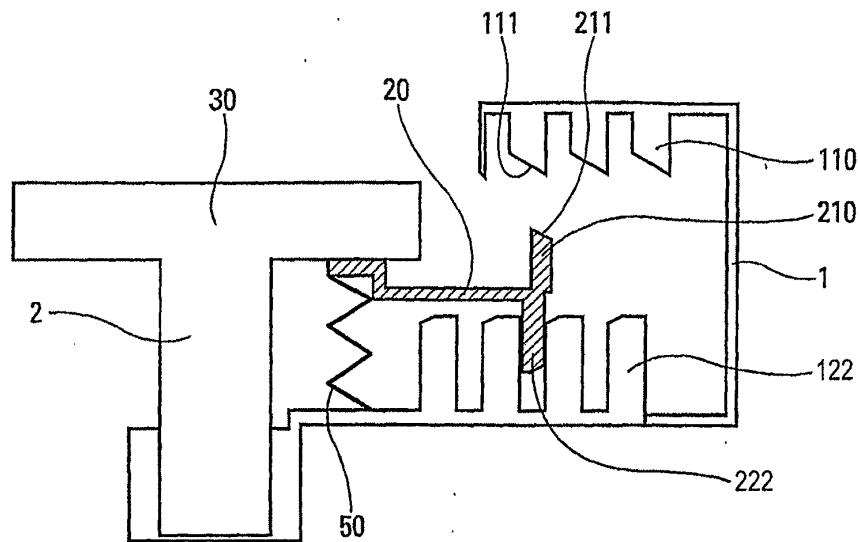


Fig. 11

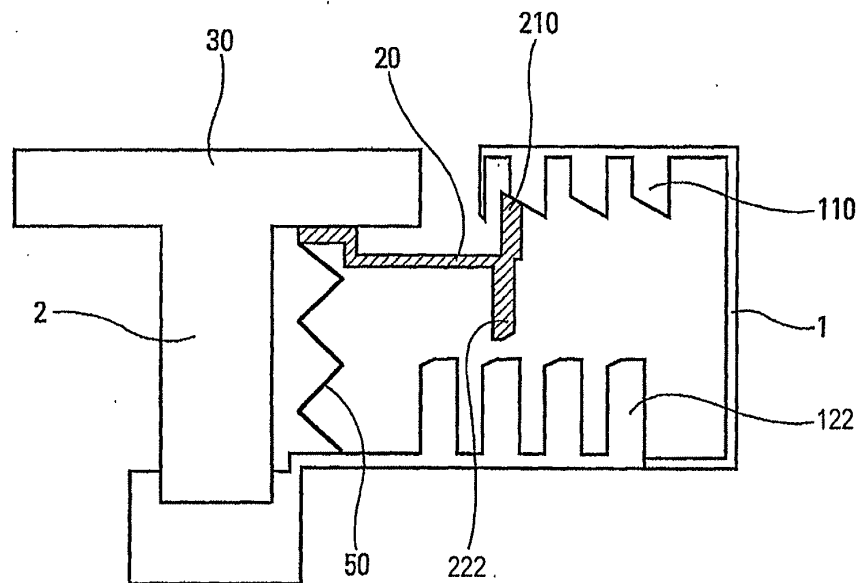


Fig. 12

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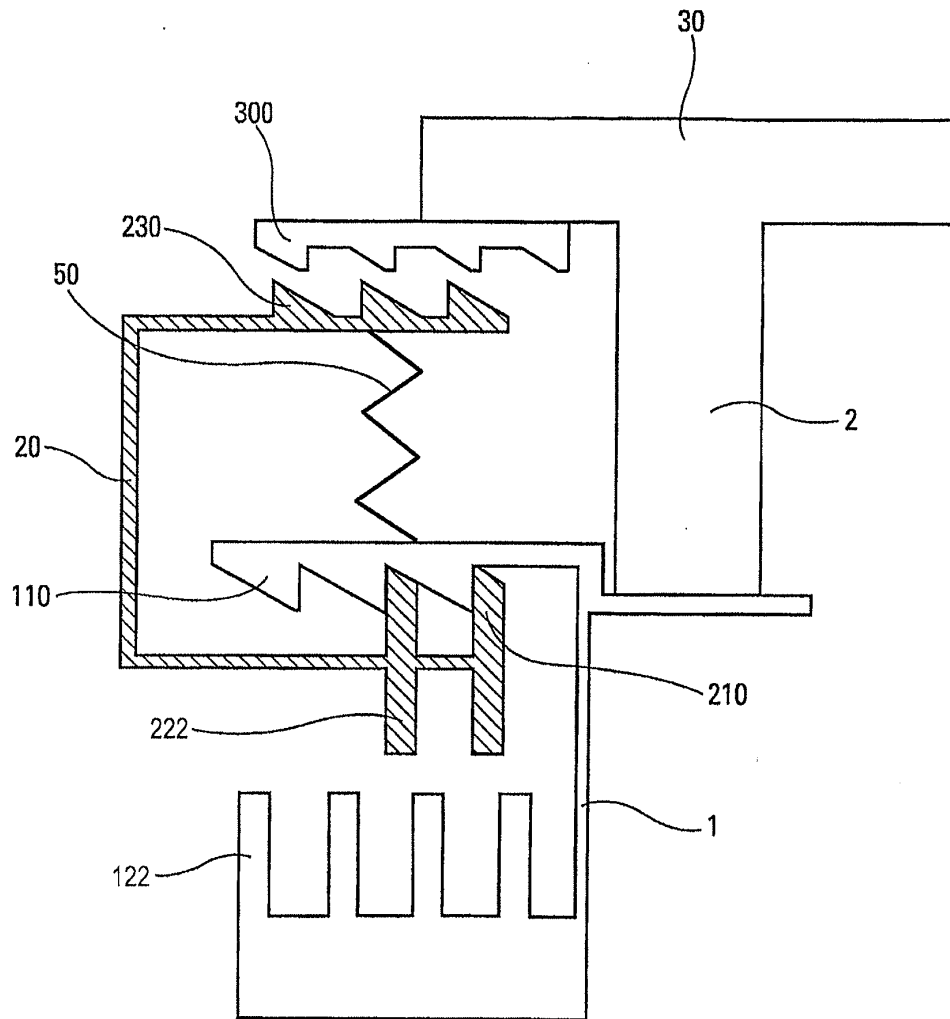


Fig. 13

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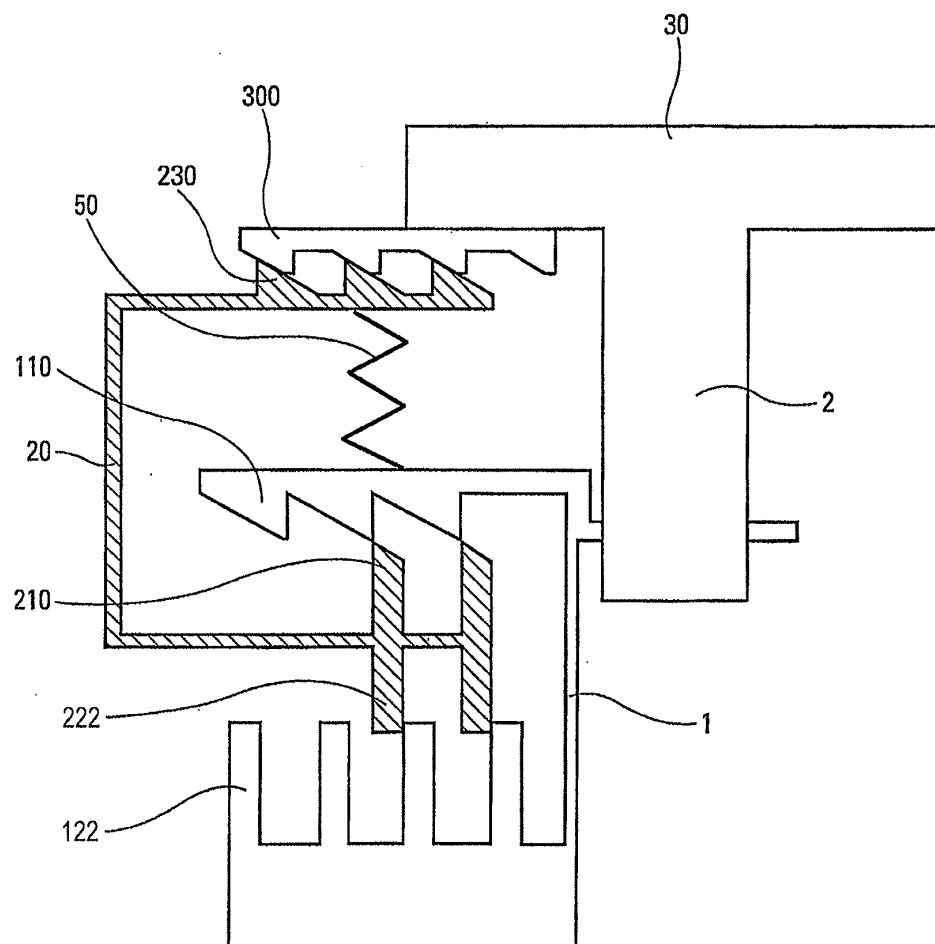


Fig. 14

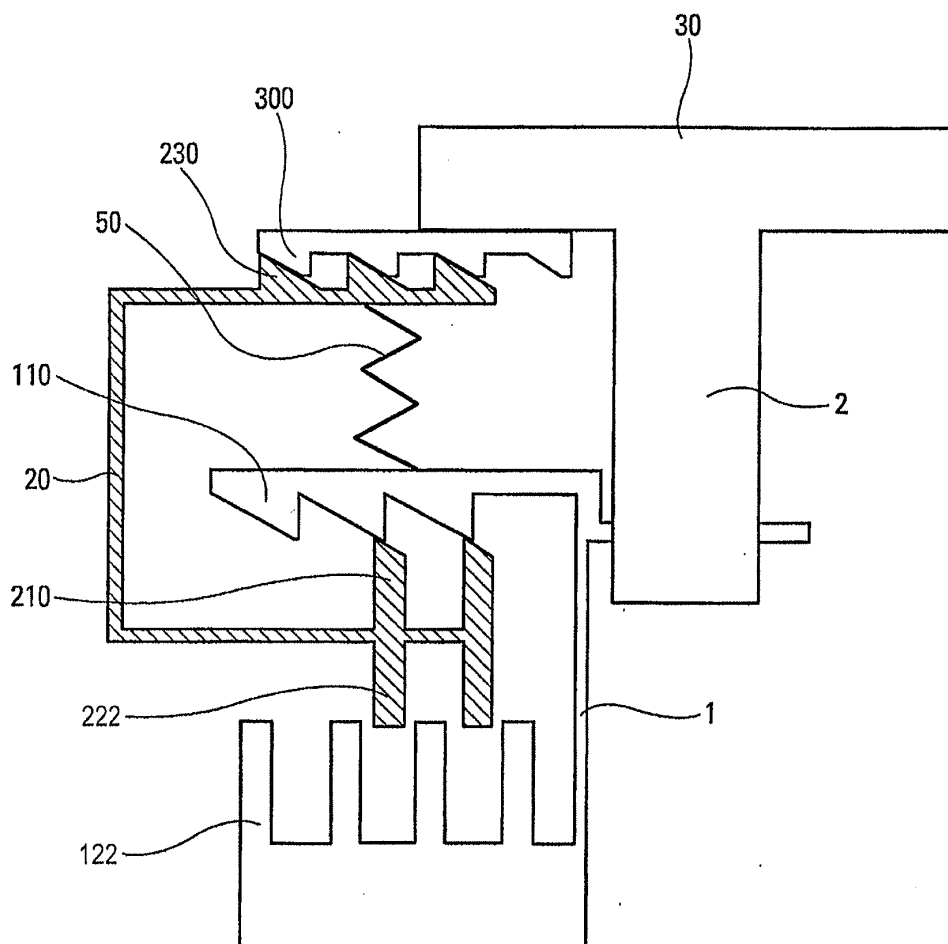


Fig. 15

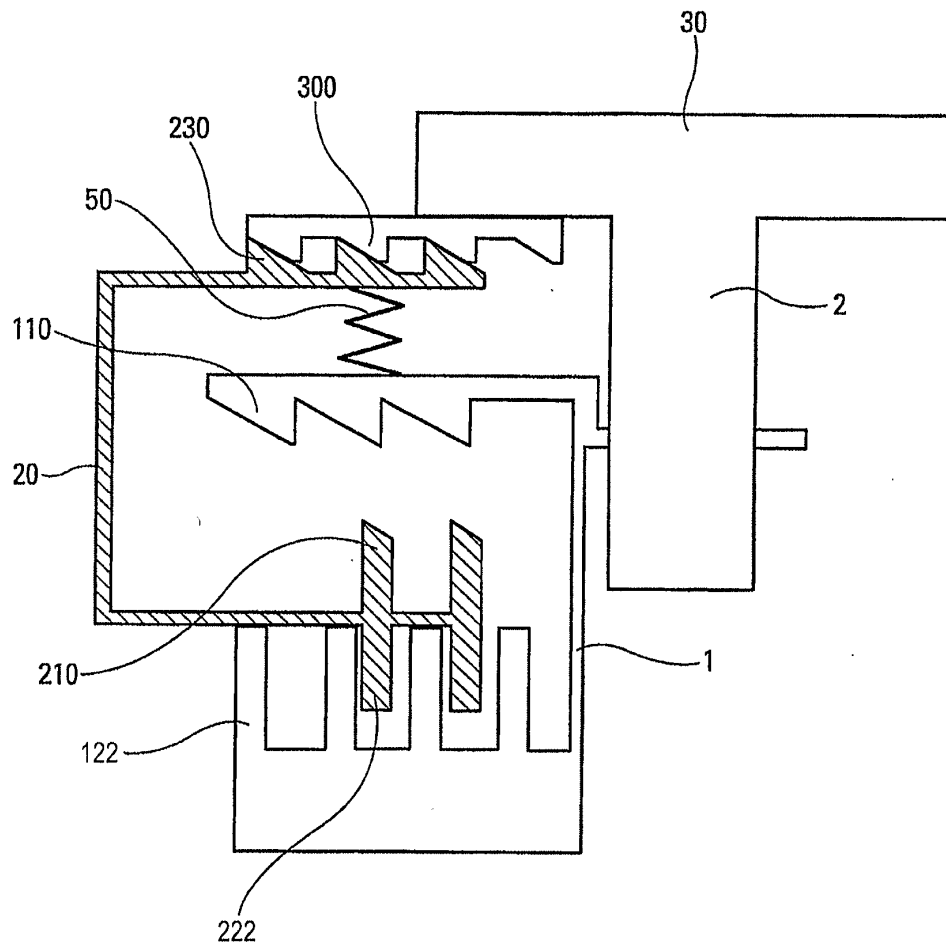


Fig. 16

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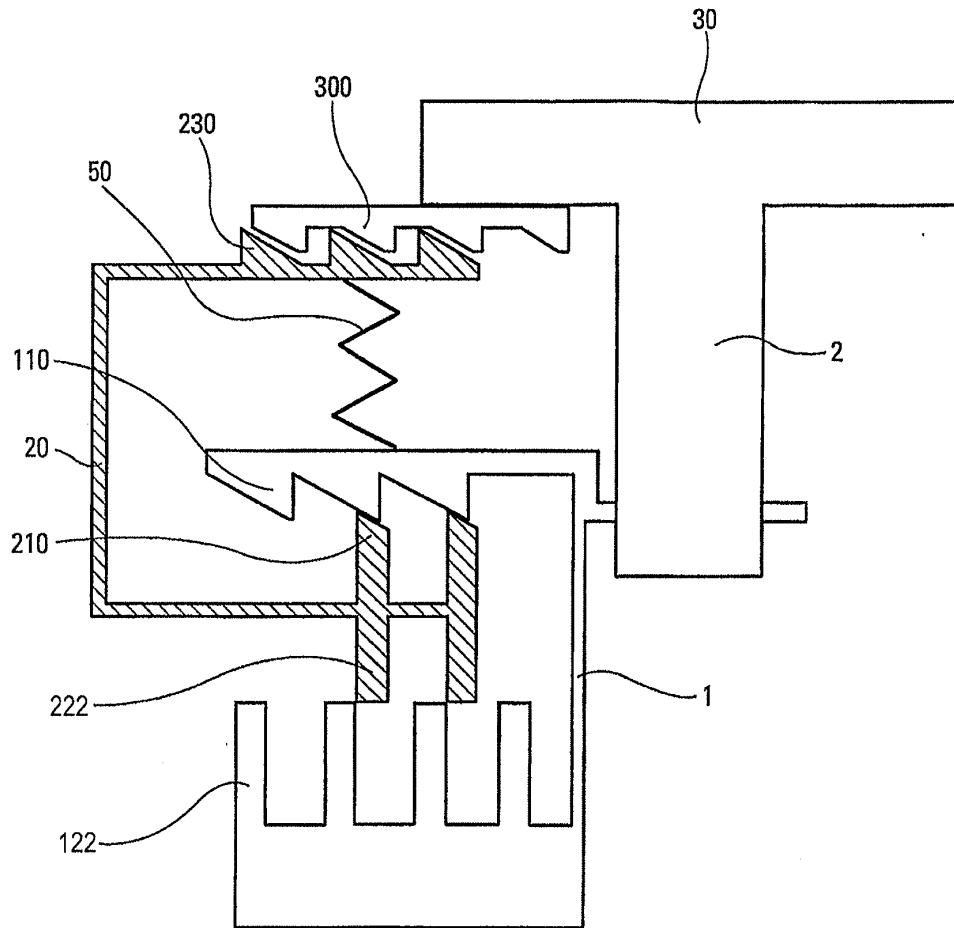


Fig. 17

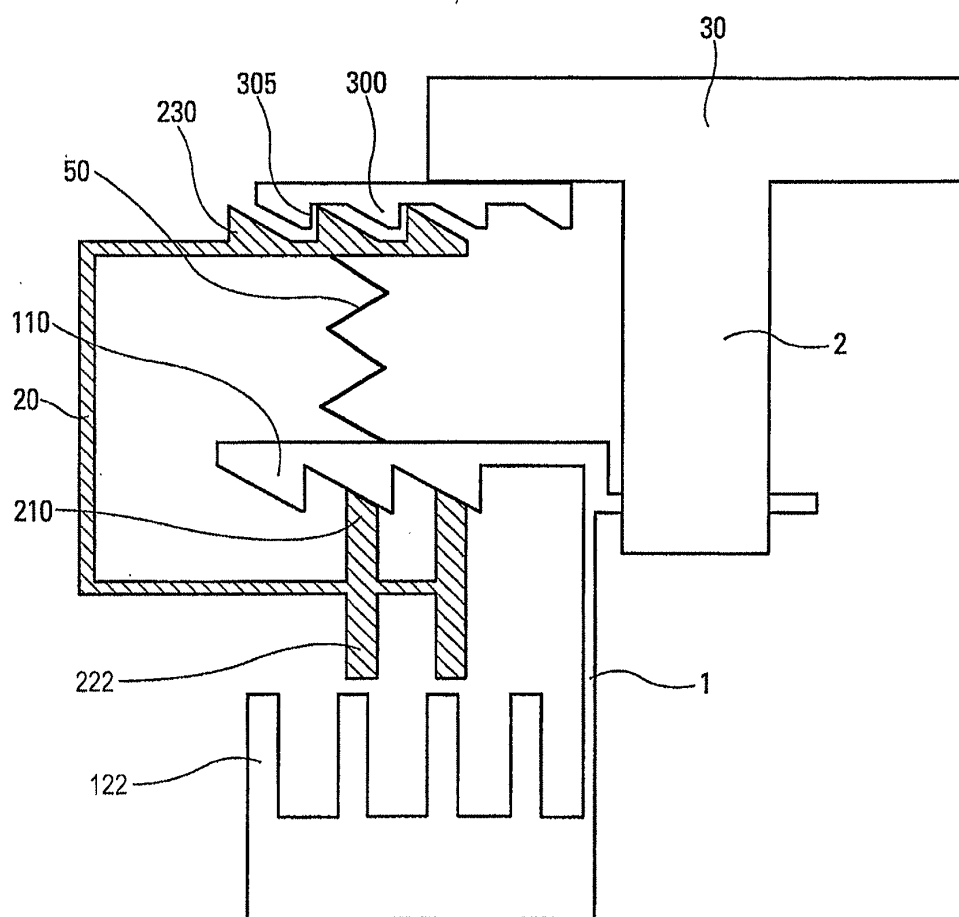


Fig. 18

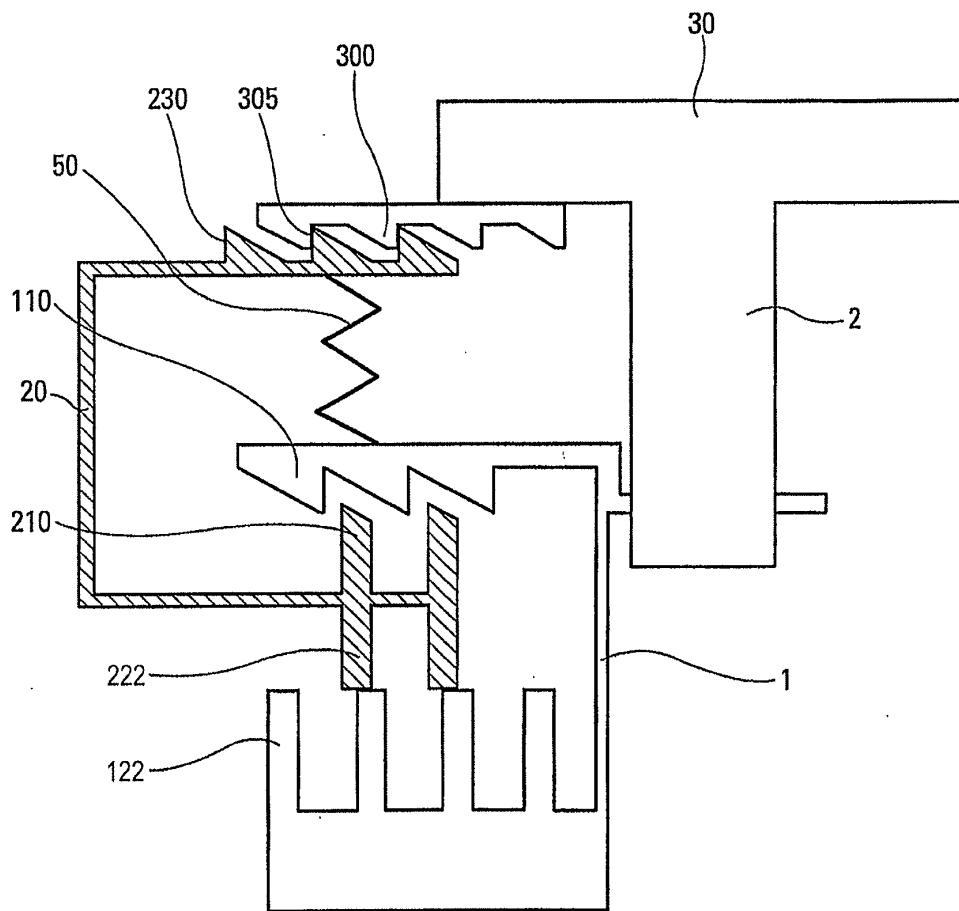


Fig. 19

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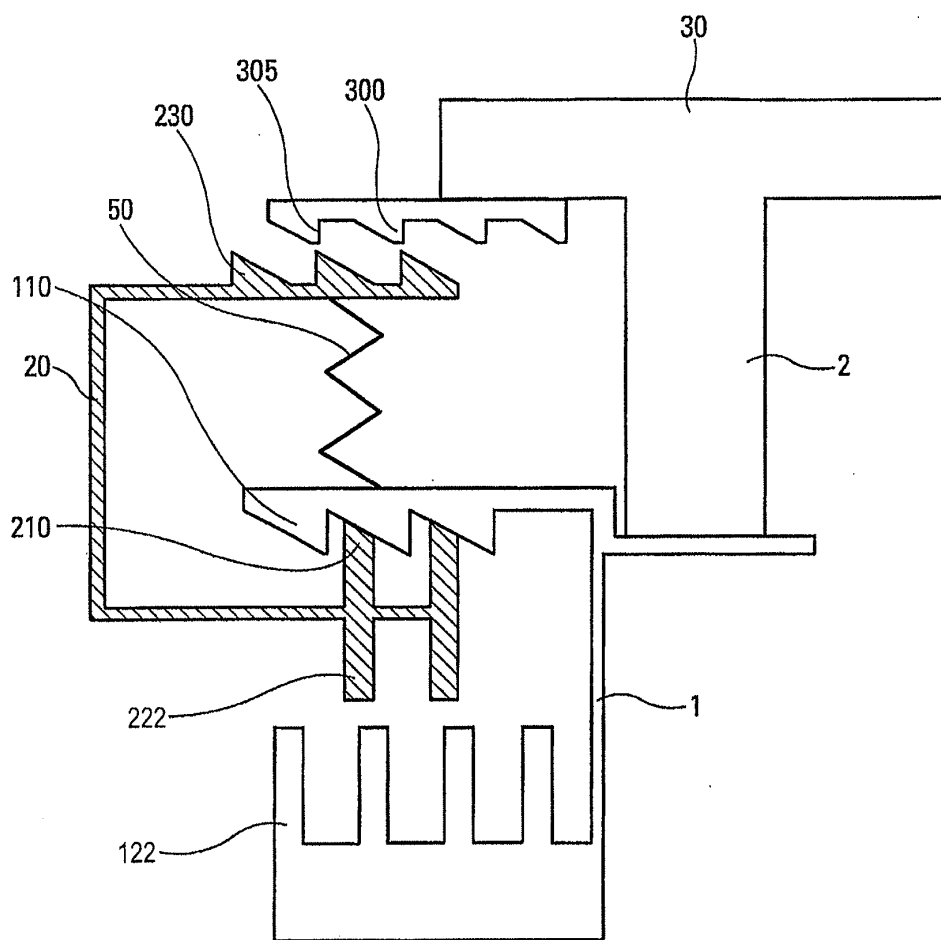


Fig. 20

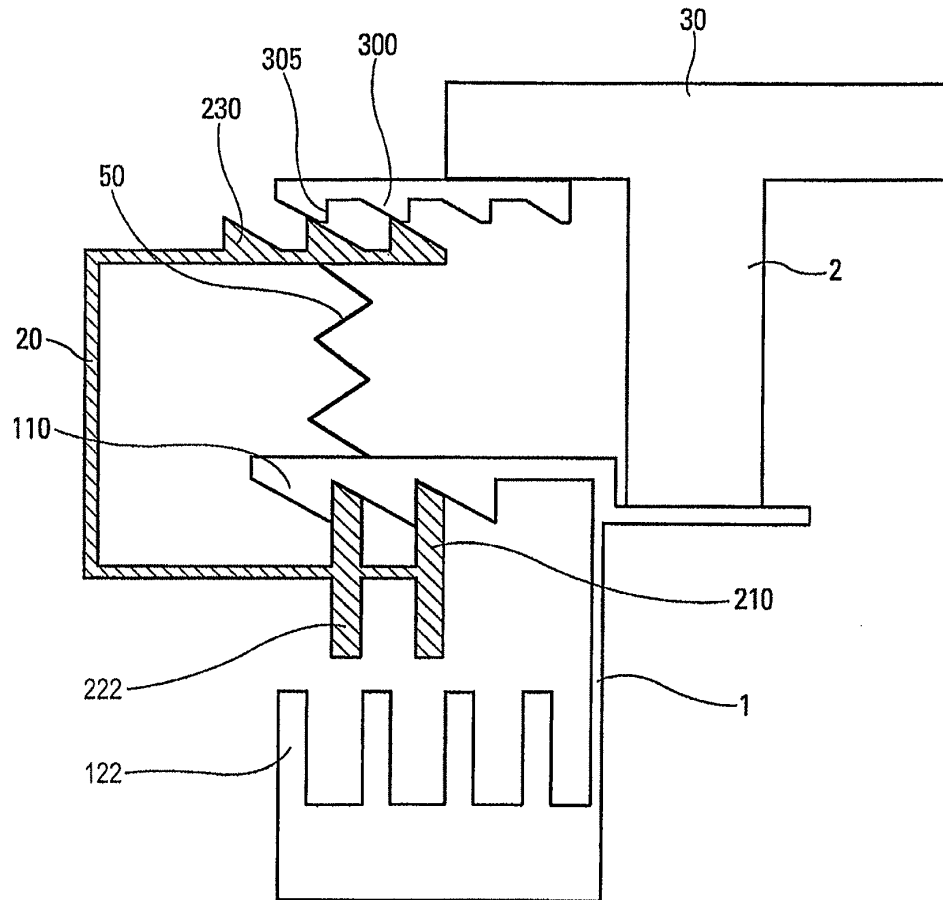


Fig. 21

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		
<small>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</small>			

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Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Rouen	Country of Residence ⁱ	FR	
Mailing Address of Inventor:				
Address 1		Residence Le Regency, 12 rue Crosne		
Address 2				
City	Rouen	State/Province		
Postal Code	F-76000	Country ⁱ	FR	
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<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	23373		
Email Address	sughrue@sughrue.com	Add Email	Remove Email

Application Information:

Title of the Invention	FLUID PRODUCT DISPENSER		
Attorney Docket Number	Q213216	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	13	Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		

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For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

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When referring to the current application, please leave the application number blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10556432	2005-11-09
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
10556432	a 371 of international	PCT/FR04/01189	2004-05-14

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove			
Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Access Code ¹ (if applicable)
03/05858	FR	2003-05-15	
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
<input type="button" value="Clear"/>			
<input checked="" type="radio"/> Assignee		<input type="radio"/> Legal Representative under 35 U.S.C. 117	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor: <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	APTAR FRANCE SAS		
Mailing Address Information For Applicant:			
Address 1	BPG Le Prieure		
Address 2			
City	Le Neubourg	State/Province	
Country	FR	Postal Code	F-27110
Phone Number		Fax Number	

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
If the Assignee or Non-Applicant Assignee is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	APTAR FRANCE SAS		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	BPG, Le Prieure		
Address 2			
City	Le Neubourg	State/Province	
Country ¹	FR	Postal Code	F-27110
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature	/Ellen R. Smith/			Date (YYYY-MM-DD)	2014-10-09
First Name	Ellen R.	Last Name	Smith	Registration Number	43042
Additional Signature may be generated within this form by selecting the Add button.					

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Q213216
		Application Number	
Title of Invention	FLUID PRODUCT DISPENSER		

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

FEE TRANSMITTAL		Complete if Known	
<input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be attached or have been submitted previously. TOTAL AMOUNT OF PAYMENT (\$1,600)		Application Number	Not Yet Assigned
		Filing Date	October 9, 2014
		First Named Inventor	Fabien POULARD
		Examiner Name	NGO, LIEN M (Parent)
		Art Unit	3754 (Parent)
		Docket No.	Q213216

METHOD OF PAYMENT (check all that apply)	
<input type="checkbox"/> Check <input checked="" type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____	
<input type="checkbox"/> Deposit Account Deposit Account Number: <u>19-4880</u> Deposit Account Name: <u>Sughrue Mion, PLLC</u>	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input type="checkbox"/> Charge fee(s) indicated below <input type="checkbox"/> Charge fee(s) indicated below, except for the Issue Fee and the Publication Fee <input checked="" type="checkbox"/> Charge any additional fee(s), except for the Issue Fee and the Publication Fee, or underpayments of fee(s) under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Credit any overpayment of fees(s)	

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)									
	FILING FEES			SEARCH FEES			EXAMINATION FEES		
<u>Application Type</u>	<u>U(\$)</u>	<u>S(\$)</u>	<u>M(\$)</u>	<u>U(\$)</u>	<u>S(\$)</u>	<u>M(\$)</u>	<u>U(\$)</u>	<u>S(\$)</u>	<u>M(\$)</u>
Utility	280	140*	70	600	300	150	720	360	180
Design	180	90	45	120	60	30	460	230	115
Plant	180	90	45	380	190	95	580	290	145
Reissue	280	140	70	600	300	150	2160	1080	540
Provisional	260	130	65	0	0	0	0	0	0

* The \$140 small entity status filing fee for a utility application is further reduced to \$70 for a small entity status applicant who filed the application via EFS-Web.

2. EXCESS CLAIM FEES			
<u>Fee Description</u>	<u>Undiscounted Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Micro Entity Fee (\$)</u>
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195
<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
3 - 20 or HP =	0	X 80	= 0

HP = highest number of total claims paid for, if greater than 20.

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
1 - 3 or HP =	0	X 420	= 0

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

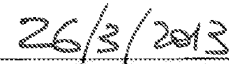
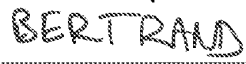
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity or \$ 100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>		<u>Number of each additional 50 or fraction thereof</u>		<u>Fee(\$)</u>	<u>Fee Paid (\$)</u>	
32	- 100 =	0	/ 50	0	(round up to a whole number) x	400	0
32 *.75	24 - 100 =	0	/ 50	0	EFS Fee Discount	400	0

4. OTHER FEE(S)		Fees Paid (\$)
Non-English Specification, \$140 fee (\$ 70 for small entity or \$35 for micro entity)		
Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity)		
Other (e.g., late filing surcharge):		

SUBMITTED BY			
Signature	/Ellen R. Smith/	Registration No. (Attorney/Agent)	43,042 Telephone: 202.293.7060
Name (Print/Type)	Ellen R. Smith		Date: October 9, 2014

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS			
NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.			
Application Number	14/510,324		
Filing Date	October 9, 2014		
First Named Inventor	Fabien POULARD		
Title	FLUID PRODUCT DISPENSER		
Art Unit	3754 (parent)		
Examiner Name	NGO, LIEN M (parent)		
Attorney Docket Number	Q213216		
SIGNATURE of Applicant or Patent Practitioner			
Signature	/Ellen R. Smith/	Date (Optional)	October 9, 2014
Name	Ellen R. Smith	Registration Number	43,042
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
<input checked="" type="checkbox"/> *Total of <u>1</u> forms are submitted.			

POWER OF ATTORNEY BY APPLICANT			
<p>I hereby appoint:</p> <p style="text-align: center;">Practitioner(s) associated with the following Customer Number:</p> <div style="text-align: center; margin: 10px 0;"> <small>WASHINGTON OFFICE</small> 23373 <small>CUSTOMER NUMBER</small> </div> <p>as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/82A or equivalent).</p>			
<p>I am the Applicant:</p> <p> <input type="checkbox"/> Inventor or Joint Inventor <input type="checkbox"/> Legal Representative of a Deceased or Legally Incapacitated Inventor <input checked="" type="checkbox"/> Assignee or Person to Whom the Inventor is Under an Obligation to Assign <input type="checkbox"/> Person Who Otherwise Shows Sufficient <i>Proprietary</i> Interest (<i>e.g.</i>, a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) </p>			
SIGNATURE of Applicant for Patent			
Signature		Date	
Name	 Eric	Telephone	
Title and Company	Expert Center Director Gift + Promotion of APTAR FRANCE SAS		
<p>NOTE: Signature - This form must be signed by the applicant or applicant's representative in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, see below*.</p>			
<p><input type="checkbox"/> Total of <u>1</u> forms are submitted.</p>			

Electronic Acknowledgement Receipt	
EFS ID:	20374105
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Mariko Motomura
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	09-OCT-2014
Filing Date:	
Time Stamp:	14:08:30
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	Power of Attorney	Q213216PowerofAttorneyasfile d.pdf	245215 c331a1a3a0af795c246287f121083910295ff c8d	no	2

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.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 10/15/2014

SDUONG	SALE	#00000013	Mailroom Dt:	10/09/2014	194880	14510324
		01	FC : 1051		140.00	DA

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/510,324			
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	280		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	600		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720		
TOTAL CLAIMS (37 CFR 1.16(i))	3	minus 20 = *				x 80 =	0.00		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *				x 420 =	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	1600		
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	
<div style="font-size: x-small;"> * 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. </div>									



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
14/510,324	10/09/2014	3754	1740	Q213216	3	1

CONFIRMATION NO. 1018

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

FILING RECEIPT



Date Mailed: 10/16/2014

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**

Inventor(s)

Fabien POULARD, Rouen, FRANCE;

Applicant(s)

APTAR FRANCE SAS, Le Neubourg, FRANCE

Assignment For Published Patent Application

APTAR FRANCE SAS, Le Neubourg, FRANCE

Power of Attorney: The patent practitioners associated with Customer Number 23373

Domestic Priority data as claimed by applicant

This application is a CON of 10/556,432 11/09/2005
which is a 371 of PCT/FR04/01189 05/14/2004

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.)
FRANCE 03/05858 05/15/2003

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 10/15/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/510,324**

Projected Publication Date: 01/22/2015

Non-Publication Request: No

Early Publication Request: No

page 1 of 3

Title

FLUID PRODUCT DISPENSER

Preliminary Class

222

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No**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 (1-866-999-4258).

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).

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/510,324	10/09/2014	Fabien POULARD	Q213216

CONFIRMATION NO. 1018

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

NOTICE



Date Mailed: 10/16/2014

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
Fabien POULARD



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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/510,324	10/09/2014	Fabien POULARD	Q213216

CONFIRMATION NO. 1018

PUBLICATION NOTICE



OC000000072970037

23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

Title: FLUID PRODUCT DISPENSER

Publication No. US-2015-0021357-A1

Publication Date: 01/22/2015

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 publicly 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

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Appln. No.: 14/510,324

Group Art Unit: 3754

Confirmation No.: 1018

Examiner: NGO, LIEN M.

Filed: October 9, 2014

For: FLUID PRODUCT DISPENSER

SUBMISSION OF EXECUTED DECLARATION UNDER 37 C.F.R. §1.132

MAIL STOP MISSING PARTS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In view of the application filed on October 9, 2014, Applicant submits herewith a copy of the Declaration for the above identified application properly executed by the inventor.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Ellen R. Smith/

Ellen R. Smith

Registration No. 43,042

SUGHRUE MION, PLLC

Telephone: 202.293.7060

Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: March 9, 2015

DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

DECLARATION POUR DEMANDE DE BREVET (37 CFR 1.63)

French Language Declaration

Je soussigné, inventeur désigné ci-dessous, déclare par les présentes que :

La présente déclaration est relative à :

☐ La demande ci-jointe, ou

☐ La demande aux États-Unis ou la demande internationale
PCT numéro déposée le

Intitulé de la demande :

.....
.....
.....

Je confirme avoir moi-même déposé la demande susmentionnée ou avoir autorisé quelqu'un à le faire.

J'ai la conviction d'être l'inventeur original, ou le co-inventeur original, de l'invention faisant l'objet de la demande.

J'ai lu et je comprends le contenu de la demande liée à la présente déclaration.

Je reconnais avoir l'obligation de divulguer à l'Office toute information qui, à ma connaissance, revêt un caractère crucial au regard de la brevetabilité, telle qu'elle est définie à l'article 37 CFR 1.56.

Je reconnais par les présentes avoir été informé que toute fausse déclaration intentionnelle faite dans les présentes déclaration est passible, en vertu de l'article 18 U.S.C. 1001, d'une amende ou d'une peine d'emprisonnement d'une durée maximale de cinq (5) ans, ou des deux.

Toute correspondance relative à la demande est à faire parvenir à l'adresse enregistrée pour le numéro de client du Bureau américain des brevets et des marques (United States Patent and Trademark Office, USPTO) ci-après.

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States Application or PCT International
Application Number 14/510,324 filed on October 9, 2014.

The application is entitled:

FLUID PRODUCT DISPENSER

The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

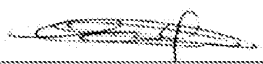
Direct all correspondence about the application to the address filed under the USPTO Customer Number below.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The declaration is an accurate translation of the corresponding English language declaration.

Signature

Date


March 17, 2014

WASHINGTON OFFICE

23373

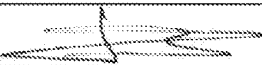
CUSTOMER NUMBER

Adresser tout appel téléphonique à :

SUGHRUE MION, PLLC
202.293.7060

Direct Telephone Calls to:

SUGHRUE MION, PLLC
202.293.7060

NAME OF SOLE OR FIRST INVENTOR: Nom de l'unique ou premier inventeur :	
Given Name (first and middle {if any}) Prénom (premier et second {le cas échéant})	Family Name or Surname Nom de famille ou patronymique
Fabien	POULARD
Inventor's signature Signature de l'inventeur	Date Date
	OCTOBER 24, 2014
Residence: Domicile :	
108 rue Alfred Kastler – F-76520 FRANQUEVILLE SAINT PIERRE - France	
Mailing Address: Adresse postale :	
Same as residence	

Electronic Acknowledgement Receipt	
EFS ID:	21715110
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Liliya Rozhkova
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	09-MAR-2015
Filing Date:	09-OCT-2014
Time Stamp:	17:24:13
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		Q213216SubmissionofDeclaration.pdf	478122 49bebaa2df65cc94742416ff670f3500f1f103f3	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Transmittal Letter	1	1
	Oath or Declaration filed	2	3
Warnings:			
Information:			
Total Files Size (in bytes):		478122	
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018
23373 7590 08/27/2015 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER NGO, LIEN M	
			ART UNIT 3754	PAPER NUMBER
			NOTIFICATION DATE 08/27/2015	DELIVERY MODE ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PPROCESSING@SUGHRUE.COM
sughrue@sughrue.com
USPTO@sughrue.com

Office Action Summary	Application No. 14/510,324	Applicant(s) POULARD, FABIEN	
	Examiner LIEN NGO	Art Unit 3754	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 10/09/2014.
☐ 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) 1-3 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) 1-3 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 10/09/14 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. 10/556,432.
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 10/09/14
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 4) ☐ Other: ____.

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Bason (6,283,365). Bason discloses, in figs. 1, 3 and 5:

Regarding to claim 1, a fluid dispenser comprising: a plurality of displayable dose values (fig. 4); a stationary body 1 comprising at least one stationary multi-toothed gear 2; a first member 14 that is displaceable axially relative to said stationary body; a second member 4 that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body; and when said first member displaces axially, said second member is caused to be displaced axially and permitted to

rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values.

Re-claim2, wherein the stationary body, the first member, and the second member are arranged to have a common central longitudinal axis, and the first member is displaceable axially along the central longitudinal axis, and the second member is displaceable axially along the central longitudinal axis and is displaceable rotationally around the central longitudinal axis.

Re-claim 3, wherein the second member comprises at least one multi-toothed gear 7.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIEN NGO whose telephone number is (571)272-4545. The examiner can normally be reached on Monday through Friday from 8:30 AM -6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KEVIN SHAVER can be reached on 571-272-4720. 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.

/LIEN NGO/
Primary Examiner, Art Unit 3754

August 22, 2015

Notice of References Cited	Application/Control No. 14/510,324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN	
	Examiner LIEN NGO	Art Unit 3754	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,283,365	09-2001	Bason, Neil Peter	235/116
*	B	US-7,232,043	06-2007	Wong et al.	222/38
	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.

Receipt date: 10/09/2014

14510324 - GAU: 3754

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	Not Yet Assigned
Confirmation Number	Not Yet Assigned
Filing Date	October 9, 2014
First Named Inventor	Fabien POULARD
Art Unit	3754 (Parent)
Examiner Name	NGO, LIEN M (Parent)
Attorney Docket Number	Q213216

U.S. PATENTS

Examiner Initials	Cite No	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	5349945	A	1994-09-27	WASS et al.	
	2.	5718355	A	1998-02-17	GARBY et al.	
	3.	5904139	A	1999-05-18	HAUSER	
	4.	6161724	A	2000-12-19	BLACKER et al.	
	5.	6155251	A	2000-12-05	HAUSER	
	6.	6328037	B1	2001-12-11	SCARROTT et al.	
	7.	6752153	B1	2004-06-22	Eckert	
	8.	6679251	B1	2004-01-20	Gallem et al.	
	9.	6481438	B1	2002-11-19	Gallem et al.	
	10.	6446627	B1	2002-09-10	Bowman et al.	
	11.	6142339		2000-11-07	Blacker et al.	
	12.	6164494		2000-12-26	Marelli	
	13.	4817822		1989-04-04	Rand et al.	
	14.	4565302		1986-01-21	Pfeiffer et al.	
	15.	7650883	B2	2010-01-26	Scarrott et al.	
	16.	5611444		1997-03-18	Garby et al.	
	17.	5988496		1999-11-23	Bruna	
	18.	6234148	B1	2001-05-22	Hartke et al.	
	19.	7191918	B2	2007-03-20	Ouyang et al.	
	20.	6234168	B1	2001-05-22	Bruna	

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initials	Cite No	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	21.	20020195102	A1	2002-12-26	Rand et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	22.	93/24167	WO	A1	1993-12-09	Norton Healthcare Limited		
	23.	98/52634	WO	A1	1998-11-26	PA Consulting Services Limited		
	24.	98/56444	WO	A1	1998-12-17	Glaxo Group Limited		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /L.N./

[Page 1 of 2]

Receipt date: 10/09/2014

14510324 - GAU: 3754

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	Not Yet Assigned
	Confirmation Number	Not Yet Assigned
	Filing Date	October 9, 2014
	First Named Inventor	Fabien POULARD
	Art Unit	3754 (Parent)
	Examiner Name	NGO, LIEN M (Parent)
	Attorney Docket Number	Q213216

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	25.	00/09187	WO	A1	2000-02-24	Joseph Wicherath GmbH & Co Kg		
	26.	00/21593	WO	A1	2000-04-20	Pari GmbH Spezialisten fur Eff		
	27.	00/59806	WO	A1	2000-10-12	Bespak PLC		
	28.	01/28887	WO	A1	2001-04-26	Glaxo Group Limited		
	29.	01/37909	WO	A1	2001-05-31	Ernst Horlins Ingenjorbyra AB		
	30.	0 254 391	EP	A1	1988-01-27	Glaxo Group Limited		
	31.	0 949 584	EP	A2	1999-10-13	Bason, Neil Peter		
	32.	1 010 438	EP	A1	2000-06-21	Bespak PLC		
	33.	1 163 922	EP	A2	2001-12-19	Glaxo Group Limited		
	34.	1 065 477	EP	A2	2001-01-03	Microspray Delta S.p.A.		
	35.	100 61 723	DE	A1	2002-07-11	Eckert		
	36.	0 480 488	EP	A1	1992-04-15	Marelli		

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T

EXAMINER SIGNATURE			
Examiner Signature	/Lien Ngo/ (08/22/2015)	Date Considered	08/22/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

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[Page 2 of 2]

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	916	G06M1/083.CPC.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:30
S2	46	("20030015191" "20030209239" "20040065326" "20040089292" "20040094147" "20040139964" "20040149773" "20040211420" "2004022237" "20070181120" "20070210102" "20070246042" "20080017192" "20080265198" "20090139516" "3178110" "3622053" "3994421" "4414972" "4563574" "4565302" "4841964" "5174473" "5522378" "5562219" "5565861" "5772080" "5808337" "5833088" "5871007" "5984122" "5988496" "6189739" "6234168" "6360739" "7322352" "7448342" "7464708" "7500444" "7543582" "7571726" "7587988" "7827984" "7828172" "7832351").PN. OR ("8689785").URPN.	US- PGPUB; USPAT; USOCR	ADJ	OFF	2014/09/05 10:33
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S4	37	S2 NOT S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:54
S5	2427	A61M15/0068.CPC.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:57
S6	2232	S5 NOT S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:57
S7	137	dispens\$4 same (dos\$4 or met\$4) same gear same (indicat\$4 or count\$4) same (station\$4 or fix\$5)	US- PGPUB; USPAT;	ADJ	ON	2014/09/05 11:29

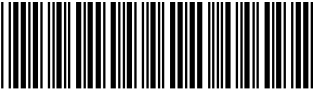
			FPRS; EPO; JPO; DERWENT			
S8	3	(dispens\$4 and station\$5 and reservoir and dose and counter and gear and actuat\$4 and stroke).clm.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2014/09/05 11:36
S9	4573	128/200.14,200.23,205.23.ccls.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S10	4384	S9 not S5	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S11	4360	S10 not S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S12	4357	S11 not S3	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S13	207	S12 and gear and (dos\$4 or met\$4) and (indicat\$4 or counter\$4)	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:41
S14	205	S13 not S7	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:42
S15	120	("2580292" "3119557" "3187963" "3419187" "3477561" "3589563" "3612349" "3688945" "3797748" "3831808" "4162746" "4220247").PN. OR ("4565302").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/08/22 10:08
S16	17	("20070051745" "20090054851" "3655952" "4565302" "5174473" "5289946" "5611444" "5799651" "5988496" "6164494" "6234168" "6283365" "6446627" "7195134" "7232043" "7407066").PN. OR ("8740014").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/08/22 10:09
S17	459	(count\$4 or dos\$4 or measur\$4 or met\$5) same (gear or teeth or tooth) same rotat\$6 same axial\$4 same dispens\$4	US- PGPUB; USPAT;	OR	OFF	2015/08/22 10:18

EAST Search History

			FPRS; EPO; JPO; DERWENT			
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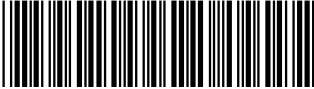
8/ 22/ 2015 3:45:11 PM

C:\Users\Ingo\Documents\EAST\Workspaces\10556432.wsp

<i>Index of Claims</i> 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	08/22/2015								
	1	✓								
	2	✓								
	3	✓								

Search Notes 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

CPC- SEARCHED		
Symbol	Date	Examiner
G06M 1/083, G06M3/12 A61M15/0068	8/22/15	LN

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
222	36,38,162	8/22/15	LN
128	200.14,200.23,205.23		

SEARCH NOTES		
Search Notes	Date	Examiner

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

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BIB DATA SHEET

CONFIRMATION NO. 1018

SERIAL NUMBER 14/510,324	FILING or 371(c) DATE 10/09/2014 RULE	CLASS 222	GROUP ART UNIT 3754	ATTORNEY DOCKET NO. Q213216		
APPLICANTS APTAR FRANCE SAS, Le Neubourg, FRANCE; INVENTORS Fabien POULARD, Rouen, FRANCE; ** CONTINUING DATA ***** This application is a CON of 10/556,432 11/09/2005 PAT 8936177 which is a 371 of PCT/FR04/01189 05/14/2004 ** FOREIGN APPLICATIONS ***** FRANCE 03/05858 05/15/2003 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 10/15/2014						
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and Acknowledged <u>/LIEN M NGO/</u> Examiner's Signature		<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY FRANCE	SHEETS DRAWINGS 13	TOTAL CLAIMS 3	INDEPENDENT CLAIMS 1
ADDRESS SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 UNITED STATES						
TITLE FLUID PRODUCT DISPENSER						
FILING FEE RECEIVED 1740	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Docket No: Q213216
Fabien POULARD	
Appln. No.: 14/510,324	Group Art Unit: 3754
Confirmation No.: 1018	Examiner: NGO, LIEN M
Filed: October 9, 2014	
For: FLUID PRODUCT DISPENSER	

AMENDMENT UNDER 37 C.F.R. § 1.111

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated August 27, 2015, please amend the above-identified application as follows on the accompanying pages.

TABLE OF CONTENTS

AMENDMENTS TO THE CLAIMS	2
REMARKS	4

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 fluid dispenser comprising:

a plurality of displayable dose values;

a stationary body comprising at least one stationary multi-toothed gear;

a first member that is displaceable axially relative to said stationary body;

a second member that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body;

and

when said first member displaces axially, the stationary body is configured to allow a fluid reservoir to be axially displaceable relative to said stationary body and said second member is caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values.
2. (Original): The fluid dispenser according to claim 1, wherein the stationary body, the first member, and the second member are arranged to have a common central longitudinal axis, and the first member is displaceable axially along the central longitudinal axis, and the second member is displaceable axially along the central longitudinal axis and is displaceable rotationally around the central longitudinal axis.

3. (Original): The fluid dispenser according to claim 1, wherein the second member comprises at least one multi-toothed gear.

4. (new): A fluid dispenser comprising:
a plurality of displayable dose values;
a stationary body comprising at least one stationary multi-toothed gear;
a fluid reservoir disposed on said stationary body so as to be axially displaceable relative to said stationary body;
a first member that is displaceable axially relative to said stationary body;
a second member that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body;
and
when said first member displaces axially, said second member is caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values.

5. (new): The fluid dispenser according to claim 4, wherein the fluid reservoir is configured to be axially displaced relative to said stationary body during actuation of the fluid dispenser.

REMARKS

I. Status of Application

Upon entry of this amendment, claims 1-5 are all the claims pending in the application.

Claim 1 is amended and claims 4-5 are added.

Applicant thanks the Examiner for returning the SB/08 form for the Information Disclosure Statement filed October 9, 2014. All of the cited references have been considered and made of record.

The drawings have been accepted.

The priority document has been received and acknowledged by the Examiner.

II. Claim Rejections - 35 USC §102

Claims 1-3 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Bason (6,283,365).

Applicant respectfully submits that claim 1 is not disclosed by Bason.

Claim 1 includes, among other things, a stationary body comprising at least one stationary multi-toothed gear. According to the claimed invention, **the stationary body is configured to allow a fluid reservoir to be axially displaceable with respect to the stationary body.**

The Examiner states (Office Action at page 2), Bason discloses "a stationary body 1 comprising at least one stationary multi-toothed gear 2". The rejection refers to Figures 1, 3 and 5.

However, the canister C is **bonded** to the domed base 1. See col. 2, lines 16-18. Thus, the alleged stationary body 1 is not configured to allow the canister C to be axially displaced with respect to the alleged stationary body 1.

As such, Bason fails to disclose each and every feature of claim 1. Thus, claim 1 is patentable.

Claims 2-3 are patentable for at least the same reasons as claim 1 by virtue of their dependency therefrom.

New claims 4-5 are patentable for similar reasons to claim 1. In particular, Bason fails to disclose a stationary body comprising at least one stationary multi-toothed gear and a fluid reservoir disposed on said stationary body so as to be axially displaceable relative to said stationary body.

III. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: January 27, 2016

/Ellen R. Smith/
Ellen R. Smith
Registration No. 43,042

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number Q213216 Confirmation Number 1018	
Application Number	14/510,324	Filed	October 9, 2014
For	FLUID PRODUCT DISPENSER		
Art Unit	3754	Examiner	NGO, LIEN M
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):			
		<u>Fee</u>	<u>Small Entity Fee</u>
			<u>Micro Entity Fee</u>
<input type="checkbox"/>	One month (37 CFR 1.17(a)(1))	\$200.00	\$100.00
<input checked="" type="checkbox"/>	Two month (37 CFR 1.17(a)(2))	\$600.00	\$300.00
<input type="checkbox"/>	Three month (37 CFR 1.17(a)(3))	\$1400.00	\$700.00
<input type="checkbox"/>	Four month (37 CFR 1.17(a)(4))	\$2200.00	\$1100.00
<input type="checkbox"/>	Five month (37 CFR 1.17(a)(5))	\$3000.00	\$1500.00
<input type="checkbox"/>	Previous Payment Amount	Date Submitted	
<input type="checkbox"/>	Applicant asserts small entity status. See 37 CFR 1.27.		
<input type="checkbox"/>	Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be attached or have been submitted previously.		
<input type="checkbox"/>	A check in the amount of the fee is attached.		
<input checked="" type="checkbox"/>	Payment by credit card.		
<input type="checkbox"/>	The Director has already been authorized to charge fees in this application to a Deposit Account.		
<input checked="" type="checkbox"/>	The Director is hereby authorized to charge any fees, except for the Issue Fee and the Publication Fee , or credit any overpayment, to Deposit Account Number 19-4880.		
<input checked="" type="checkbox"/>	Payment made via EFS-Web.		
I am the <input type="checkbox"/> applicant/inventor. <input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is attached (Form PTO/SB/96). <input checked="" type="checkbox"/> attorney or agent of record. Registration Number <u>43,042</u> <input type="checkbox"/> attorney or agent under 37 CFR 1.34. Registration number <u> </u>			
<small>WASHINGTON OFFICE</small> <div style="font-size: 24pt; font-weight: bold;">23373</div> <small>CUSTOMER NUMBER</small>			
<u>/Ellen R. Smith/</u> Signature		<u>January 27, 2016</u> Date	
<u>Ellen R. Smith</u> Typed or printed name		<u>202.293.7060</u> Telephone Number	
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.			
<input checked="" type="checkbox"/>	*Total of <u>1</u> form is submitted.		

Electronic Patent Application Fee Transmittal				
Application Number:		14510324		
Filing Date:		09-Oct-2014		
Title of Invention:		FLUID PRODUCT DISPENSER		
First Named Inventor/Applicant Name:		Fabien POULARD		
Filer:		Ellen Resnick Smith/Ariella Chukran		
Attorney Docket Number:		Q213216		
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 - 2 months with \$0 paid	1252	1	600	600
Miscellaneous:				
Total in USD (\$)				600

Electronic Acknowledgement Receipt	
EFS ID:	24734816
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Ariella Chukran
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	27-JAN-2016
Filing Date:	09-OCT-2014
Time Stamp:	12:02:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$600
RAM confirmation Number	9342
Deposit Account	194880
Authorized User	SMITH, ELLEN R.
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Q213216Amendment111EOTas filed.pdf	49552 845cbbb213289adbec3cd8915a50c38dcb658e79	yes	6

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	3
Applicant Arguments/Remarks Made in an Amendment	4	5
Extension of Time	6	6

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30586 2a3553dbe5b8153ca9e22359d764848767323dc0	no	2
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Warnings:

Information:

Total Files Size (in bytes): 80138

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 14/510,324		Filing Date 10/09/2014		<input type="checkbox"/> To be Mailed			
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO											
APPLICATION AS FILED – PART I											
(Column 1)		(Column 2)									
FOR	NUMBER FILED	NUMBER EXTRA			RATE (\$)	FEE (\$)					
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A			N/A						
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A			N/A						
<input type="checkbox"/> 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 \$ =						
<input type="checkbox"/> 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).										
<input type="checkbox"/> 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	01/27/2016	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	* 5	Minus	** 20	=	X \$ =					
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	=	X \$ =					
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE					
(Column 1)		(Column 2)		(Column 3)							
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
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	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =					
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE					
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>											

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018
23373 7590 03/15/2016 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER NGO, LIEN M	
			ART UNIT 3754	PAPER NUMBER
			NOTIFICATION DATE 03/15/2016	DELIVERY MODE ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PPROCESSING@SUGHRUE.COM
sughrue@sughrue.com
USPTO@sughrue.com

Office Action Summary	Application No. 14/510,324	Applicant(s) POULARD, FABIEN	
	Examiner LIEN NGO	Art Unit 3754	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 01/27/16.
☐ 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) 1-5 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 and 3-5 is/are rejected.
- 8) ☒ Claim(s) 2 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: ____.

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1 and 3-5 are rejected under pre-AIA 35 U.S.C. 102(a) as being anticipated by Bonney et al. (7,500,444). Bonney et al. disclose, in figs.1, 8 and 12, a fluid dispenser comprising: a plurality of displayable dose values 50; a stationary body 3 comprising at least one stationary multi-toothed gear 13; a first member 30 that is displaceable axially relative to said stationary body; a second member 151 that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body; and when said first member displaces axially, the stationary body is configured to allow a fluid reservoir 17 to be axially displaceable relative to said stationary body and said second member is

caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values; wherein the second member comprises at least one multi-toothed gear.

Allowable Subject Matter

5. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 1 and 3-5 have been considered but are moot because the arguments do not apply to the references being used in the current rejection.

Conclusion

7. 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.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIEN NGO whose telephone number is (571)272-4545. The examiner can normally be reached on Monday through Friday from 8:30 AM -6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PAULD R. DURAND can be reached on 571-272-4959. 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.

/LIEN NGO/
Primary Examiner, Art Unit 3754

March 8, 2016

Notice of References Cited	Application/Control No. 14/510,324		Applicant(s)/Patent Under Reexamination POULARD, FABIEN	
	Examiner LIEN NGO		Art Unit 3754	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7,500,444 B2	03-2009	Bonney; Stanley George	A61M15/0065	116/311
	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	CPC 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.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)
20160308

Notice of References Cited

Part of Paper No.

<i>Index of Claims</i> 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant										<input type="checkbox"/> CPA										<input type="checkbox"/> T.D.										<input type="checkbox"/> R.1.47									
CLAIM		DATE																																					
Final	Original	08/22/2015	03/08/2016																																				
	1	✓	✓																																				
	2	✓	O																																				
	3	✓	✓																																				
	4		✓																																				
	5		✓																																				

**AMENDMENT UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP 3754
PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Appln. No.: 14/510,324

Group Art Unit: 3754

Confirmation No.: 1018

Examiner: NGO, LIEN M

Filed: October 9, 2014

For: FLUID PRODUCT DISPENSER

AMENDMENT UNDER 37 C.F.R. § 1.116

MAIL STOP AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated March 15, 2016, please amend the above-identified application as follows on the accompanying pages.

TABLE OF CONTENTS

AMENDMENTS TO THE CLAIMS	2
REMARKS	4

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 fluid dispenser comprising:
 - a plurality of displayable dose values;
 - a stationary body comprising at least one stationary multi-toothed gear;
 - a first member that is displaceable axially relative to said stationary body;
 - a second member that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body;and
 - when said first member displaces axially, the stationary body is configured to allow a fluid reservoir to be axially displaceable relative to said stationary body and said second member is caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values,
 - wherein the stationary body, the first member, and the second member are arranged to have a common central longitudinal axis, and the first member is displaceable axially along the central longitudinal axis, and the second member is displaceable axially along the central longitudinal axis and is displaceable rotationally around the central longitudinal axis.
2. (cancelled).

3. (Original): The fluid dispenser according to claim 1, wherein the second member comprises at least one multi-toothed gear.

4. (currently amended): A fluid dispenser comprising:
a plurality of displayable dose values;
a stationary body comprising at least one stationary multi-toothed gear;
a fluid reservoir disposed on said stationary body so as to be axially displaceable relative to said stationary body;
a first member that is displaceable axially relative to said stationary body;
a second member that is displaceable axially and in rotation relative to said stationary body, said second member being engageable with said first member and said stationary body;
and

when said first member displaces axially, said second member is caused to be displaced axially and permitted to rotate relative to said stationary body, so as to change a displayed dose value from among the plurality of displayable dose values,

wherein the stationary body, the first member, and the second member are arranged to have a common central longitudinal axis, and the first member is displaceable axially along the central longitudinal axis, and the second member is displaceable axially along the central longitudinal axis and is displaceable rotationally around the central longitudinal axis.

5. (Previously Presented): The fluid dispenser according to claim 4, wherein the fluid reservoir is configured to be axially displaced relative to said stationary body during actuation of the fluid dispenser.

REMARKS

Applicant notes with appreciation that claim 2 has been indicated as containing allowable subject matter. In an effort to expedite prosecution of the application, independent claims 1 and 4 are amended to incorporate the allowable subject matter of claim 2, and claim 2 is cancelled without prejudice or disclaimer.

Thereby, the rejection of claims 1 and 3-5 under pre-AIA 35 U.S.C. 102(a) as being anticipated by Bonney et al. (7,500,444) is rendered moot.

A request for the **After Final Consideration Pilot** (AFCP 2.0) is being filed concurrently herewith, in which the Examiner is provided additional time to consider the amendment. Entry is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: April 15, 2016

/Ellen R. Smith/
Ellen R. Smith
Registration No. 43,042

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0			
Practitioner Docket No.:	Q213216	Application No.:	14/510,324
First Named Inventor:	Fabien POULARD	Filing Date:	October 9, 2014
Title:	FLUID PRODUCT DISPENSER		
APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.			
<ol style="list-style-type: none"> 1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (<i>e.g.</i>, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c). 2. The above-identified application contains an outstanding final rejection. 3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect. 4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection. 5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response. 6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web). 7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.] 8. By filing this certification and request, applicant acknowledges the following: <ul style="list-style-type: none"> • Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0. • The examiner will verify that the AFCP 2.0 submission is compliant, <i>i.e.</i>, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions: <ul style="list-style-type: none"> ○ The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, by mailing an advisory action. ○ If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview. <ul style="list-style-type: none"> • The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate. • If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116. 			
Signature	/Ellen R. Smith/	Date	April 15, 2016
Name	Ellen R. Smith	Practitioner Reg No.	43,042
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.			
<input checked="" type="checkbox"/> *Total of <u> 1 </u> forms are submitted.			

Electronic Acknowledgement Receipt	
EFS ID:	25499957
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Ariella Chukran
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	15-APR-2016
Filing Date:	09-OCT-2014
Time Stamp:	09:19:40
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		Q213216Amendment116AFCP asfiled.pdf	61913 803df9a954744b2db0aeece79362e801a25d 4cb50	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Response After Final Action	1	1
	Claims	2	3
	Applicant Arguments/Remarks Made in an Amendment	4	4
	After Final Consideration Program Request	5	5
Warnings:			
Information:			
Total Files Size (in bytes):		61913	
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>			

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 14/510,324		Filing Date 10/09/2014		<input type="checkbox"/> To be Mailed					
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO													
APPLICATION AS FILED – PART I													
(Column 1)		(Column 2)											
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)					
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A							
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A							
<input type="checkbox"/> 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 \$ =							
<input type="checkbox"/> 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).											
<input type="checkbox"/> 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	04/15/2016		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))		* 5		Minus	** 20	= 0		X \$80 =		0		
	Independent (37 CFR 1.16(h))		* 2		Minus	***3	= 0		X \$420 =		0		
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))												
	<input type="checkbox"/> 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 \$ =				
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))												
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))												
						TOTAL ADD'L FEE							
<p>* 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.</p>										LIE /STELLA LITTLE/			

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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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 04/26/2016
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

EXAMINER

NGO, LIEN M

ART UNIT

PAPER NUMBER

3754

DATE MAILED: 04/26/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018

TITLE OF INVENTION: FLUID PRODUCT DISPENSER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	07/26/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23373 7590 04/26/2016
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018

TITLE OF INVENTION: FLUID PRODUCT DISPENSER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	07/26/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGO, LIEN M	3754	222-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018
23373	7590	04/26/2016	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			NGO, LIEN M	
			ART UNIT	PAPER NUMBER
			3754	

DATE MAILED: 04/26/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/510,324	Applicant(s) POULARD, FABIEN	
	Examiner LIEN NGO	Art Unit 3754	AIA (First Inventor to File) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 04/15/16.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ 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.
3. ☒ The allowed claim(s) is/are 1 and 3-5. As a result of the allowed claim(s), 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.
4. ☐ 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)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/LIEN NGO/
Primary Examiner, Art Unit 3754



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BIB DATA SHEET

CONFIRMATION NO. 1018

SERIAL NUMBER 14/510,324	FILING or 371(c) DATE 10/09/2014 RULE	CLASS 222	GROUP ART UNIT 3754	ATTORNEY DOCKET NO. Q213216		
APPLICANTS APTAR FRANCE SAS, Le Neubourg, FRANCE; INVENTORS Fabien POULARD, Rouen, FRANCE; ** CONTINUING DATA ***** This application is a CON of 10/556,432 11/09/2005 PAT 8936177 which is a 371 of PCT/FR04/01189 05/14/2004 ** FOREIGN APPLICATIONS ***** FRANCE 03/05858 05/15/2003 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 10/15/2014						
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and Acknowledged <u>/LIEN M NGO/</u> Examiner's Signature		<input type="checkbox"/> Met after Allowance LN Initials	STATE OR COUNTRY FRANCE	SHEETS DRAWINGS 13	TOTAL CLAIMS 3	INDEPENDENT CLAIMS 1
ADDRESS SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 UNITED STATES						
TITLE FLUID PRODUCT DISPENSER						
FILING FEE RECEIVED 1740	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	G06M1/25.CPC.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:37
L2	458	G06M1/22.CPC.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:38
L3	555	G06M3/12.CPC.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:41
L4	17929	A61M15/0065,0071,009.CPC.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:43
L5	2667	A61M15/0068.CPC.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:44
L6	15785	4 NOT L5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2016/04/20 16:44
L7	9	5 AND (axis same gear\$4 same rotat\$6 same axial\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2016/04/20 16:46
L8	33	6 AND (axis same gear\$4 same rotat\$6 same axial\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2016/04/20 16:46
L9	109	6 AND (gear\$4 same rotat\$6 same axial\$4)	US-PGPUB;	ADJ	ON	2016/04/20 16:47

			USPAT; FPRS; EPO; JPO; DERWENT			
L10	41	(dispens\$4 and stationary and gear and rotation and axial\$4 and axis).clm.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2016/04/20 16:49
S1	916	G06M1/083.CPC.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:30
S2	46	("20030015191" "20030209239" "20040065326" "20040089292" "20040094147" "20040139964" "20040149773" "20040211420" "20040222237" "20070181120" "20070210102" "20070246042" "20080017192" "20080265198" "20090139516" "3178110" "3622053" "3994421" "4414972" "4563574" "4565302" "4841964" "5174473" "5522378" "5562219" "5565861" "5772080" "5808337" "5833088" "5871007" "5984122" "5988496" "6189739" "6234168" "6360739" "7322352" "7448342" "7464708" "7500444" "7543582" "7571726" "7587988" "7827984" "7828172" "7832351").PN. OR ("8689785").URPN.	US- PGPUB; USPAT; USOCR	ADJ	OFF	2014/09/05 10:33
S3	538	G06M3/12.CPC.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:54
S4	37	S2 NOT S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:54
S5	2427	A61M15/0068.CPC.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:57
S6	2232	S5 NOT S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 10:57
S7	137	dispens\$4 same (dos\$4 or met\$4) same gear same (indicat\$4 or count\$4) same (station\$4 or fix\$5)	US- PGPUB; USPAT;	ADJ	ON	2014/09/05 11:29


			FPRS; EPO; JPO; DERWENT			
S8	3	(dispens\$4 and station\$5 and reservoir and dose and counter and gear and actuat\$4 and stroke).clm.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2014/09/05 11:36
S9	4573	128/200.14,200.23,205.23.ccls.	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S10	4384	S9 not S5	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S11	4360	S10 not S1	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S12	4357	S11 not S3	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:39
S13	207	S12 and gear and (dos\$4 or met\$4) and (indicat\$4 or counter\$4)	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:41
S14	205	S13 not S7	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2014/09/05 11:42
S15	120	("2580292" "3119557" "3187963" "3419187" "3477561" "3589563" "3612349" "3688945" "3797748" "3831808" "4162746" "4220247").PN. OR ("4565302").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/08/22 10:08
S16	17	("20070051745" "20090054851" "3655952" "4565302" "5174473" "5289946" "5611444" "5799651" "5988496" "6164494" "6234168" "6283365" "6446627" "7195134" "7232043" "7407066").PN. OR ("8740014").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/08/22 10:09
S17	459	(count\$4 or dos\$4 or measur\$4 or met\$5) same (gear or teeth or tooth) same rotat\$6 same axial\$4 same dispens\$4	US- PGPUB; USPAT;	OR	OFF	2015/08/22 10:18

EAST Search History

			FPRS; EPO; JPO; DERWENT			
S18	467	(count\$4 or dos\$4 or measur\$4 or met\$5) same (gear or teeth or tooth) same rotat\$6 same axial\$4 same dispens\$4	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/08/22 10:19
S19	20	"7500444"	USPAT	OR	OFF	2016/03/08 14:04

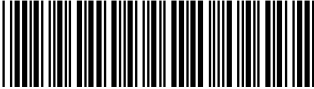
4/ 20/ 2016 4:50:56 PM

C:\Users\Ingo\Documents\EAST\Workspaces\10556432.wsp

<i>Index of Claims</i> 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

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

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant										<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
CLAIM		DATE													
Final	Original	08/22/2015	03/08/2016	04/20/2016											
1	1	✓	✓	=											
	2	✓	O	-											
2	3	✓	✓	=											
3	4		✓	=											
4	5		✓	=											

Search Notes 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

CPC- SEARCHED			
Symbol		Date	Examiner
G06M1/083,22; G06M3/12		8/22/15	LN
A61M15/0068,0065,0071,009		4/20/2016	LN


CPC COMBINATION SETS - SEARCHED			
Symbol		Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
222	36,38,162	8/22/15	LN
128	200.14,200.23,205.23		

SEARCH NOTES			
Search Notes		Date	Examiner
EAST text search		4/20/2016	LN

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
All of above		4/20/2016	LN


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Issue Classification 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN	
	Examiner LIEN NGO	Art Unit 3754	

CPC					Type	Version
Symbol						
A61M		15		0071	F	2014-02-04
A61M		15		0065	I	2013-01-01
G06M		1		083	I	2013-01-01
G06M		3		12	I	2013-01-01
A61M		15		0068	I	2014-02-04
A61M		15		009	I	2013-01-01
G06M		1		22	I	2013-01-01


CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	4	
/LIEN NGO/ Primary Examiner.Art Unit 3754	04/20/16	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION													
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED								
222		36				B	6	7	D	7 / 22 (2010.01.01)									
CROSS REFERENCE(S)																			
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																		
128	200.23																		

NONE		Total Claims Allowed:	
		4	
(Assistant Examiner)	(Date)		
/LIEN NGO/ Primary Examiner.Art Unit 3754	04/20/16	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 14510324	Applicant(s)/Patent Under Reexamination POULARD, FABIEN
	Examiner LIEN NGO	Art Unit 3754

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1														
	2														
2	3														
3	4														
4	5														

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 4	
/LIEN NGO/ Primary Examiner. Art Unit 3754 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 1

IT IS OK TO ENTER.

/LN/

04/20/16

**AMENDMENT UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP 3754
PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Appln. No.: 14/510,324

Group Art Unit: 3754

Confirmation No.: 1018

Examiner: NGO, LIEN M

Filed: October 9, 2014

For: FLUID PRODUCT DISPENSER

AMENDMENT UNDER 37 C.F.R. § 1.116

MAIL STOP AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated March 15, 2016, please amend the above-identified application as follows on the accompanying pages.

TABLE OF CONTENTS

AMENDMENTS TO THE CLAIMS	2
REMARKS	4

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(571) 273-2885

or **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS

(Note: Use Block 1 for any change of address)

23373

SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, NW
SUITE 800
WASHINGTON, DC 20037

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018

TITLE OF INVENTION: FLUID PRODUCT DISPENSER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	Undiscounted	\$960	\$0	\$0	\$960	07/26/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGO, LIEN M	3754	222-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached.
Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Sughrue Mion, PLLC

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

APTAR FRANCE SAS

Le Neubourg, FRANCE

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

- ☐ A check is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 19-4880 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☐ Applicant changing to regular undiscounted fee status

NOTE: Absent a valid certification of Micro Entity Status (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature	/Ellen R. Smith/	Date	May 20, 2016
Typed or Printed Name	Ellen R. Smith	Registration No.	43,042

This collection of information is required by 37 CFR 1.311. 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.
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.

Electronic Patent Application Fee Transmittal				
Application Number:		14510324		
Filing Date:		09-Oct-2014		
Title of Invention:		FLUID PRODUCT DISPENSER		
First Named Inventor/Applicant Name:		Fabien POULARD		
Filer:		Brett Smith Sylvester/Konata George		
Attorney Docket Number:		Q213216		
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:				
Utility Appl Issue Fee	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt	
EFS ID:	25838306
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Brett Smith Sylvester/Konata George
Filer Authorized By:	Brett Smith Sylvester
Attorney Docket Number:	Q213216
Receipt Date:	20-MAY-2016
Filing Date:	09-OCT-2014
Time Stamp:	13:05:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$960
RAM confirmation Number	10189
Deposit Account	194880
Authorized User	SUGHRUE MION, PLLC
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Q213216IssueFeeTransmittal.pdf	34309 4fe953eda71705b3770802ba5f964270ff218977	no	1

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30593 8f8a12a845567d045820201b8480a31957b6169	no	2
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Warnings:

Information:

Total Files Size (in bytes):	64902
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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.



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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	06/21/2016	9370631	Q213216	1018
23373	7590	06/01/2016		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037				

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Fabien POULARD, Rouen, FRANCE;
APTAR FRANCE SAS, Le Neubourg, FRANCE;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Group Art Unit: 3754

Appln. No.: 14/510,324

Examiner: NGO, LIEN M

Confirmation No.: 1018

Patent No.: 9,370,631

Filed: October 9, 2014

Issue Date: June 21, 2016

For: FLUID PRODUCT DISPENSER

**PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO ADD
OR DELETE INVENTOR(S), PURSUANT TO 35 U.S.C. § 256**

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

Sir:

The undersigned, on behalf of the Inventors and the Assignee, petitions the Director in accordance with 37 C.F.R. § 1.324(a) to correct inventorship of the above-identified patent by adding the names Jean-Denis SAUZADE and Yann ROARD as co-inventors.

The failure to name the correct inventors arose through error without any deceptive intention.

REMARKS

In accordance with 37 C.F.R. § 1.324(b), submitted herewith are the following:

1. Where one or more persons are being added, a statement from each person who is being added as an inventor that the error in inventorship occurred without deceptive intent on his or her part.

PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO ADD
OR DELETE INVENTOR(S), PURSUANT TO 35 U.S.C. § 256

Attorney Docket No.: Q213216

Appln. No.: 14/510,324

2. A statement from the current named inventor who has not submitted a statement under paragraph (1) above, stating that they have no disagreement in regard to the requested change; and

3. A statement from all assignee(s) of the parties submitting a statement under paragraph (1) and paragraph (2) above agreeing to the change of inventorship, which statement complies with the requirements of §3.73(b); and

The processing fee of \$140.00 set forth in 37 C.F.R. § 1.20(b) is also being remitted.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Ellen R. Smith/

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

Ellen R. Smith
Registration No. 43,042

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: October 19, 2017

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Docket No: Q213216
Fabien POULARD	Group Art Unit: 3754
Appln. No.: 14/510,324	Examiner: NGO, LIEN M
Confirmation No.: 1018	Patent No.: 9,370,631
Filed: October 9, 2014	Issue Date: June 21, 2016
For: FLUID PRODUCT DISPENSER	

**STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER ¶(1) & ¶(2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

The undersigned, a representative of APTAR FRANCE SAS, represents that APTAR FRANCE SAS is the owner of the entire right, title and interest of Application No. 14/510,324, (now United States Patent 9,370,631), filed on October 9, 2014 for FLUID PRODUCT DISPENSER by virtue of:

an Assignment from Mr. Fabien POULARD executed on October 20, 2005, recorded on November 9, 2005 at Reel No. 017925, Frame 0909, to VALOIS SAS, and by virtue of an Assignment from VALOIS SAS to APTAR FRANCE SAS executed on July 25, 2012, recorded on September 10, 2012 at Reel No. 028930, Frame No. 0848;

an Assignment from Mr. Jean-Denis SAUZADE executed on July 31, 2017, recorded on September 21, 2017, at Reel No. 043648, Frame 0791, to Telemaq SAS, and by virtue of an Assignment from Telemaq SAS to APTAR FRANCE SAS executed on August 13, 2017, recorded on September 21, 2017, at Reel 043650, Frame 0708, and for which a copy is attached herewith; and

an Assignment from Mr. Yann ROARD executed on August 10, 2017, recorded on September 21, 2017, at Reel No. 043648, Frame No. 0791, to Telemaq SAS, and by virtue of an Assignment from Telemaq SAS to APTAR FRANCE SAS, executed on August 13, 2017, recorded on September 21, 2017, at Reel No. 043650, Frame No. 0708, and for which a copy is attached herewith.

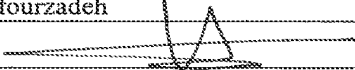
The undersigned hereby certifies that the above-mentioned Assignments have been reviewed and to the best of the undersigned's knowledge and belief, title is in who is seeking to take this action.

The undersigned (whose title is supplied below) is empowered to sign this consent statement on behalf of the assignee.

Yann Ghafourzadeh hereby agrees to the correction of inventorship in connection with the above-identified application whereby the names of Jean-Denis SAUZADE and Yann ROARD are added as co-inventors.

UK

STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT
Attorney Docket No.: Q213216
Appln. No.: 14/510,324

Name	Yann Ghafourzadeh	Title	Vice President, Prescription Sales and Operations Europe
Signature			
Date	September 2017		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Group Art Unit: 3754

Appln. No.: 14/510,324

Examiner.: NGO, LIEN M

Confirmation No.: 1018

Patent No.: 9,370,631

Filed: October 9, 2014

Issue Date: June 21, 2016

For: FLUID PRODUCT DISPENSER

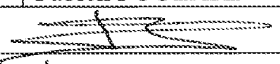
**STATEMENT FROM CURRENT NAMED INVENTOR, WHO IS NOT A PERSON
BEING ADDED AS AN INVENTOR, IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

I, Fabien POUARD, the current named inventor, of the above-identified patent who is not a person being added as an inventor do hereby declare that an error occurred in naming the inventors of the above-identified patent and that the error occurred without deceptive intention on my part.

I hereby declare that I have no disagreement in regard to the requested change in inventors.

Name of 1 st Inventor	Fabien POULARD
Signature	
Date	August 22, 2017

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q213216

Fabien POULARD

Group Art Unit: 3754

Appln. No.: 14/510,324

Examiner.: NGO, LIEN M

Confirmation No.: 1018

Patent No.: 9,370,631

Filed: October 9, 2014

Issue Date: June 21, 2016

For: FLUID PRODUCT DISPENSER


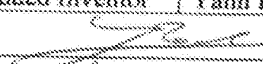
STATEMENT FROM ADDED INVENTORS IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT

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

Sir:


We, Jean-Denis SAUZADE and Yann ROARD, the inventors being added to the above-identified patent do hereby declare that an error occurred in naming the inventors of the above-identified patent and that the error occurred without deceptive intention on our part.

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

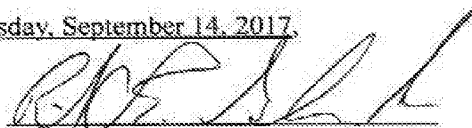
Name of 1 st Added Inventor	Jean-Denis SAUZADE
Signature	<i>Jean-Denis Sauzade</i> 
Date	<i>August 21st 2017</i>
Name of 2 nd Added Inventor	Yann ROARD
Signature	<i>Yann Roard</i> 
Date	<i>August 17th 2017</i>

CERTIFICATION OF ACCURACY

1. My name is Michelle Louise Warmath. I am over eighteen years of age, have never been convicted of a felony or crime involving moral turpitude, suffer from no legal disability, and am in all other ways fully capable of making this affidavit. The facts stated herein are within my personal knowledge and are true and correct.
2. I am bilingual in the French and English languages and have been translating documents from French to English for over 45 years. I am therefore qualified to translate in said languages. I hold a Bachelor of Educational Science from the University of Nancy II in Nancy, France and have been a freelance vendor employed by Transperfect Translations International Inc. ("Transperfect") since August 2015.
3. I Michelle Louise Warmath hereby confirm that the document attached and incorporated hereto as Aptar - Road Assignment to Telemag, is, to the best of my knowledge and belief, a fair and accurate representation of 2017_08_10 Road to Telemag (French) EXECUTED Aptar - Road Assignment to Telemag from French into English.


Michelle L. Warmath

SWORN TO BEFORE ME, on Thursday, September 14, 2017,


Notary Public in and for
The State of Connecticut

My commission expires on 12/2019



PATENT ASSIGNMENT

This Patent Assignment is entered into as of August 10, 2017, between Yann Roard, 76 Chemin du Val Fleuri, Résidence Les Lauriers Bât. C, 06800 Cagnes sur Mer (“Assignor”); and Telemaq SAS, Athéna B, 1180 Route des Dolines, Sophia Antipolis, 06560 Valbonne (“Assignee”).

WHEREAS, to the extent Assignor’s right, title, and interest in the Patents and Inventions has not already been transferred by operation of French law, Assignor hereby agrees to sell, convey, transfer, assign, and deliver to Assignee all of Assignor’s right, title, and interest in, to, and under U.S. Patent No. 8,936,177, issued January 20, 2015, titled “Fluid Product Dispenser,” U.S. Patent No. 9,370,631, issued June 21, 2016, titled “Fluid Product Dispenser,” and all foreign and U.S. counterparts thereto (the “Patents”) and the inventions disclosed and/or claimed therein (the “Inventions”).

WHEREAS Assignee desires to acquire the entire right, title, and interest to the Patents and Inventions from Assignor to the extent not already acquired under French law.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee, its successors, representatives, and assigns, the entire right, title, and interest to (1) the Patents; (2) the Inventions; (3) all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, reissues, reexaminations, extensions, foreign counterparts, or any other application(s) or patent(s) based on the Inventions or claiming priority to or from the Patents; and (4) any right to recover damages, including royalties and provisional damages, for prior, current, or future infringements of the Patents and Inventions identified in this paragraph.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and all foreign countries to issue any and all aforementioned Patents and Inventions, including subsequently filed provisional, non-provisional, divisional, continuation, continuation-in-part, reissue, or other application(s), to Assignee for its use and on behalf of Assignee, its successors, representatives, and assigns.

The right, title, and interest conveyed in this Assignment is to be held and enjoyed by Assignee and Assignee’s successors, representatives, and assigns, as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date set forth below:

Yann Roard

Telemaq SAS

Signature: [signature]

Date: [handwritten:] August 10, 2017

Signature: [signature]

Date: [handwritten:] August 11, 2017

CESSION DE BREVETS

La présente Cession de brevets, qui entre en vigueur le 10 août 2017, intervient entre Yann Roard, 76 Chemin du Val Fleuri, Résidence Les Lauriers Bât C, 06800 Cagnes Sur Mer (le « Cédant ») et Telemaq SAS, Athéna B, 1180 Route des Dolines, Sophia Antipolis, 06560 Valbonne (le « Cessionnaire »).

ATTENDU QUE, dans la mesure où les droits, titres et intérêts du Cédant sur les Brevets et Inventions n'ont pas encore été transmis par l'effet de la législation française, le Cédant accepte par les présentes de vendre, transférer, attribuer, céder et fournir au Cessionnaire tous ses droits, titres et intérêts selon le brevet n° 8,936,177 délivré le 20 janvier 2015 et intitulé « Distributeur de produit fluide », et le brevet n° 9,370,631 délivré le 21 juin 2016 et intitulé « Distributeur de produit fluide » aux États-Unis, et tous les brevets américains et étrangers y afférents (les « Brevets »), ainsi que les inventions divulguées et/ou revendiquées (les « Inventions »).

ATTENDU QUE le Cessionnaire souhaite obtenir tous les droits, titres et intérêts sur les Brevets et Inventions du Cédant dans la mesure où il ne les a pas encore obtenus conformément à la législation française.

EN CONSÉQUENCE DE QUOI, à des fins de contrepartie satisfaisante et suffisante, dont la réception est reconnue par les présentes, le Cédant vend, cède et transfère selon celles-ci au Cessionnaire, ainsi qu'à ses successeurs, représentants et ayants droit, tous ses droits, titres et intérêts sur (1) les Brevets ; (2) les Inventions ; (3) les demandes de brevets complémentaires, temporaires ou autres, les demandes de brevets constituant une continuation ou une continuation en partie, le renouvellement et le réexamen des demandes de brevets, l'extension des brevets, les brevets étrangers ou tout autre brevet ou demande basé sur les Inventions ou dont la priorité sur les Brevets est revendiquée ; et (4) le droit de percevoir des dommages-intérêts, notamment des redevances et indemnités provisoires, en cas de non-respect antérieur, actuel ou ultérieur des Brevets et Inventions mentionnés dans le présent alinéa.

Le Cédant autorise et demande au Commissaire de l'Office des brevets et des marques aux États-Unis et dans tous les autres pays de délivrer l'ensemble des Brevets et Inventions susvisés, y compris les demandes de brevets complémentaires, temporaires ou autres, les demandes de brevets constituant une continuation ou une continuation en partie, le renouvellement des demandes de brevets ou autre(s) demande(s) déposée(s), au profit du Cessionnaire à des fins d'utilisation personnelle et en son nom, ainsi que pour le compte de ses successeurs, représentants et ayants droit.

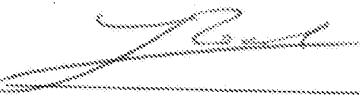
Le Cessionnaire, ainsi que ses successeurs, représentants et ayants droit, détiennent et bénéficient pleinement et exclusivement des droits, titres et intérêts transférés dans le cadre de la présente Cession comme si le Cédant les détenait et en bénéficiait en l'absence de cette Cession.

EN FOI DE QUOI, le Cédant exécute la présente Cession à la date suivante :

Yann Roard

Telemaq SAS

Signature :



Signature :



Date :

le 10 août 2017

Date :

le 11 Août 2017

PATENT ASSIGNMENT

This patent Assignment, in force as of July 31, 2017, takes place between Jean-Denis Sauzade, 32 Chemin de la Dragonnière 06130 Grasse (the "Assignor") and Telemaq SAS, Athéna B, 1180 route des Dolines, Sophia Antipolis, 06560 Valbonne (the "Assignee").

WHEREAS, to the extent that the rights, title, and interest of the Assignor in the Patents and Inventions have not yet been transferred by operation of French law, the Assignor hereunder agrees to sell, transfer, allocate, assign, and provide to the Assignee all its rights, title, and interest according to patent No. 8,936,177 issued on January 20, 2015 and titled "Fluid product dispenser", and patent No. 9,370,631 issued on June 21, 2016 and titled "Fluid product dispenser" in the United States, and all the related American and foreign patents (the "Patents"), as well as the disclosed and/or claimed inventions (the "Inventions").

WHEREAS, the Assignee wishes to obtain all the rights, title, and interest in the Patents and Inventions of the Assignor to the extent that it has not yet obtained them by operation of French law.

NOW THEREFORE, as satisfactory and sufficient compensation hereby acknowledged to have been received, the Assignor hereby sells, assigns, and transfers to the Assignee, as well as to its successors, representatives, and beneficiaries, all its rights, title, and interest in (1) the Patents; (2) the Inventions; (3) the additional, temporary, or other patent applications, the patent applications that constitute a continuation or partial continuation, renewal, or reexamination of the patent applications, the extension of the patents, the foreign patents, or any other patent or application based on the Inventions or whose priority on the Patents is claimed; and (4) the right to receive damages, especially temporary royalties and indemnifications, in the event of prior, current, or subsequent default on the Patents and Inventions mentioned in this paragraph.

The Assignor authorizes and requests the Patent and Trademark Office Commissioner in the United States and all the other countries to deliver all the aforementioned Patents and Inventions, including the additional, temporary, or other patent applications, the patent applications that constitute a continuation or partial continuation, renewal of patent applications, or any other application(s) filed, to the benefit of the Assignee, for purposes of personal use and in its name, as well as to the benefit of its successors, representatives, and beneficiaries.

The Assignee, as well as its successors, representatives, and beneficiaries, fully and exclusively hold and benefit from the rights, title, and interest transferred as part of this Assignment as the Assignor would have held and benefitted from them in the absence of this Assignment.

IN WITNESS WHEREOF, the Assignor executed this Assignment on the following date:

Jean-Denis Sauzade

[stamp:]



Signature: [signature]

Date: [handwritten:] 07/31/2017

Date: [handwritten:] 07/31/2017



TRANSPERFECT

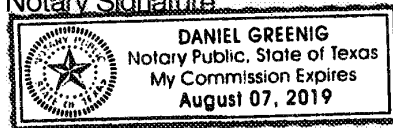
CERTIFICATE OF ACCURACY

I, Stacy Garrett of TransPerfect Translations, Inc. do hereby declare that the following are to the best of my knowledge and belief a true and accurate translation of the document "2017 07 31 Sauzade to Telemaq (French) EXECUTED" translated from French into English.

I so declare under penalty of perjury under the laws of the United States on this fifth day of September, 2017.

Stacy Garrett
TransPerfect Translations, Inc.
1717 Main Street, Suite 4450
Dallas, TX 75201

Notary Signature



Notary Stamp

LANGUAGE AND TECHNOLOGY SOLUTIONS FOR GLOBAL BUSINESS

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OFFICES IN 90 CITIES WORLDWIDE

CESSION DE BREVETS

La présente Cession de brevets, qui entre en vigueur le 31 Juillet 2017, intervient entre Jean-Denis Sauzade, 32 Chemin de la Dragonnière 06130 Grasse (le « Cédant ») et Telemac SAS, Athéna B, 1180 Route des Dolines, Sophia Antipolis, 06560 Valbonne (le « Cessionnaire »).

ATTENDU QUE, dans la mesure où les droits, titres et intérêts du Cédant sur les Brevets et Inventions n'ont pas encore été transmis par l'effet de la législation française, le Cédant accepte par les présentes de vendre, transférer, attribuer, céder et fournir au Cessionnaire tous ses droits, titres et intérêts selon le brevet n° 8,936,177 délivré le 20 janvier 2015 et intitulé « Distributeur de produit fluide », et le brevet n° 9,370,631 délivré le 21 juin 2016 et intitulé « Distributeur de produit fluide » aux États-Unis, et tous les brevets américains et étrangers y afférents (les « Brevets »), ainsi que les inventions divulguées et/ou revendiquées (les « Inventions »).

ATTENDU QUE le Cessionnaire souhaite obtenir tous les droits, titres et intérêts sur les Brevets et Inventions du Cédant dans la mesure où il ne les a pas encore obtenus conformément à la législation française.

EN CONSÉQUENCE DE QUOI, à des fins de contrepartie satisfaisante et suffisante, dont la réception est reconnue par les présentes, le Cédant vend, cède et transfère selon celles-ci au Cessionnaire, ainsi qu'à ses successeurs, représentants et ayants droit, tous ses droits, titres et intérêts sur (1) les Brevets ; (2) les Inventions ; (3) les demandes de brevets complémentaires, temporaires ou autres, les demandes de brevets constituant une continuation ou une continuation en partie, le renouvellement et le réexamen des demandes de brevets, l'extension des brevets, les brevets étrangers ou tout autre brevet ou demande basé sur les Inventions ou dont la priorité sur les Brevets est revendiquée ; et (4) le droit de percevoir des dommages-intérêts, notamment des redevances et indemnités provisoires, en cas de non-respect antérieur, actuel ou ultérieur des Brevets et Inventions mentionnés dans le présent alinéa.

Le Cédant autorise et demande au Commissaire de l'Office des brevets et des marques aux États-Unis et dans tous les autres pays de délivrer l'ensemble des Brevets et Inventions susvisés, y compris les demandes de brevets complémentaires, temporaires ou autres, les demandes de brevets constituant une continuation ou une continuation en partie, le renouvellement des demandes de brevets ou autre(s) demande(s) déposée(s), au profit du Cessionnaire à des fins d'utilisation personnelle et en son nom, ainsi que pour le compte de ses successeurs, représentants et ayants droit.

Le Cessionnaire, ainsi que ses successeurs, représentants et ayants droit, détiennent et bénéficient pleinement et exclusivement des droits, titres et intérêts transférés dans le cadre de la présente Cession comme si le Cédant les détenait et en bénéficiait en l'absence de cette Cession.

EN FOI DE QUOI, le Cédant exécute la présente Cession à la date suivante :

Jean-Denis Sauzade

Signature : _____

Date : 31/07/2017

Telemac SAS TELEMAQ S.A.S. au capital de 35.200 € Athéna B - 1180 Route des Dolines Sophia Antipolis - 06560 VALBONNE Tél: 04 92 28 05 16 - Fax : 04 93 75 53 08 SIREN 425 039 825 - RCS GRASSE - NAF 7490B TVA : FR 52 425 039 825 Signature : _____ www.telemac.fr
--

Date : 31/07/2017

PATENT ASSIGNMENT

This Patent Assignment is entered into as of [INSERT DATE], between Telemaq SAS, Athéna B, 1180 Route des Dolines, Sophia Antipolis, 06560 Valbonne ("Assignor"); and Aptar France SAS, Lieudit Le Prieuré, 27110 Le Neubourg, France ("Assignee").

WHEREAS Assignor previously agreed to sell, convey, transfer, assign, and deliver to Assignee all of Assignor's right, title, and interest in, to, and under U.S. Patent No. 8,936,177, issued January 20, 2015, titled "Fluid Product Dispenser," U.S. Patent No. 9,370,631, issued June 21, 2016, titled "Fluid Product Dispenser," and all foreign and U.S. counterparts thereto (the "Patents") and the inventions disclosed and/or claimed therein (the "Inventions").

WHEREAS Assignee desires to acquire the entire right, title, and interest to the Patents and Inventions from Assignor.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee, its successors, representatives, and assigns, the entire right, title, and interest to (1) the Patents; (2) the Inventions; (3) all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, reissues, reexaminations, extensions, foreign counterparts, or any other application(s) or patent(s) based on the Inventions or claiming priority to or from the Patents; and (4) any right to recover damages, including royalties and provisional damages, for prior, current, or future infringements of the Patents and Inventions identified in this paragraph.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and all foreign countries to issue any and all aforementioned Patents and Inventions, including subsequently filed provisional, non-provisional, divisional, continuation, continuation-in-part, reissue, or other application(s), to Assignee for its use and on behalf of Assignee, its successors, representatives, and assigns.

The right, title, and interest conveyed in this Assignment is to be held and enjoyed by Assignee and Assignee's successors, representatives, and assigns, as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date set forth below:

Telemaq SAS:

Signature: Jean-Denis Sanzade

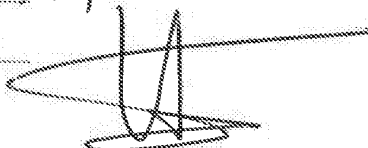
Date: August 18th 2017



Aptar France SAS:

Signature: Yann GUAROUZADOU

Date: 15 August 2017



Electronic Patent Application Fee Transmittal				
Application Number:		14510324		
Filing Date:		09-Oct-2014		
Title of Invention:		FLUID PRODUCT DISPENSER		
First Named Inventor/Applicant Name:		Fabien POULARD		
Filer:		Ellen Resnick Smith/Keyanna Honesty		
Attorney Docket Number:		Q213216		
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:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				140

Electronic Acknowledgement Receipt	
EFS ID:	30708985
Application Number:	14510324
International Application Number:	
Confirmation Number:	1018
Title of Invention:	FLUID PRODUCT DISPENSER
First Named Inventor/Applicant Name:	Fabien POULARD
Customer Number:	23373
Filer:	Ellen Resnick Smith/Keyanna Honesty
Filer Authorized By:	Ellen Resnick Smith
Attorney Docket Number:	Q213216
Receipt Date:	19-OCT-2017
Filing Date:	09-OCT-2014
Time Stamp:	18:21:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 140
RAM confirmation Number	102017INTEFSW18213900
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	Request under Rule 48 correcting inventorship	Q213216PetitiontoCorrectInventorshipfor9370631withStatementsandAssignments.pdf	3113893	no	14
			dee535877f5c98633787e39405cf218fd1c56a92		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30530	no	2
			9a50de0fe22b0e913d9334b5bf0b6ce80a443eeaa		
Warnings:					
Information:					
Total Files Size (in bytes):			3144423		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/510,324	10/09/2014	Fabien POULARD	Q213216	1018
23373 7590 10/30/2017 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER NGO, LIEN M	
			ART UNIT 3754	PAPER NUMBER
			NOTIFICATION DATE 10/30/2017	DELIVERY MODE ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PPROCESSING@SUGHRUE.COM
sughrue@sughrue.com
USPTO@sughrue.com

Technology Center Petition Count Sheet	Application No. 14/510,324	Applicant(s) POULARD, FABIEN	

Petition Code	Petition Type
<input type="checkbox"/> 601	Petition to Make Special, Age or Health (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 604	Petition to Make Special, Accelerated Examination (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 607	Petition to Make Special, For Reasons not Provided in 601-606 and 639-640 (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 608	Petition to Reopen After a Board Decision (37 CFR 1.198)
<input type="checkbox"/> 609	Petition for Review of Final Restriction Requirement (37 CFR 1.144)
<input type="checkbox"/> 610	Petition Invoking Authority of Commissioner under 37 CFR 1.181 Not Specified in Codes 611-617
<input type="checkbox"/> 611	Petition Relating to Prematureness of Final Rejection (37 CFR 1.181, MPEP § 706.07)
<input type="checkbox"/> 612	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.181 and 1.127, MPEP § 714.09)
<input type="checkbox"/> 613	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 711.03)
<input type="checkbox"/> 614	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 7.14.19)
<input type="checkbox"/> 615	Petition Relating to Formal Sufficiency / Propriety of Affidavits (37 CFR 1.131, 1.132, 1.608, MPEP § 608.04(C))
<input type="checkbox"/> 617	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.312)
<input type="checkbox"/> 620	Petition for Extension of Time (37 CFR 1.136 (b))
<input type="checkbox"/> 622	Petition Concerning Appeal Application before Transfer of Jurisdiction to Board of Appeals (MPEP § 1206)
<input type="checkbox"/> 623	Petition for Second or Subsequent Suspension of Action (37 CFR 1.103, MPEP § 709)
<input checked="" type="checkbox"/> 634	Petition to Correct Inventorship in a Patent not in Interference (37 CFR 1.324, MPEP § 1481)
<input type="checkbox"/> 635	Petition to Correct Inventorship in a Patent Application (37 CFR 1.48)
<input type="checkbox"/> 636	Petition to Change Inventorship in a Patent (37 CFR 1.324)
<input type="checkbox"/> 637	Petition to Withdraw from Issue, before Payment of an Issue Fee (37 CFR 1.313(a))
<input type="checkbox"/> 639	Petition for Make Special Prospective Manufacture (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 646	Petition for Make Special Accelerated Examination
<input type="checkbox"/> 690	Petition Related Color Drawings of Photographs
<input type="checkbox"/> 699	Petition for Matters Before Technology Center

Information Required for OPESS Processing

☒ GRANTED

☐ GRANTED-IN-PART

☐ DENIED

☐ DISMISSED

☒ Mail Decision and Enter Decision in Petition Database/PALM
☐ Copy Decision, Send to Scanning
☐ Fees Need to be Charged
☐



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No. 9370631
Issued Date: 21 June, 2016
Appl. No: 14/510,324
Filed.: 09 October 2014

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed .

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)

☐ Approved ☐ Approved in Part ☐ Denied

Comments:

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☒ This is a decision on the petition filed 19 October 2017 to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed . In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☒ Granted ☐ Dismissed

Comment:

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/PAUL R DURAND/
Supervisory Patent Examiner, Art Unit 3754
Technology Center 3700
Phone: 571-272-3700

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

Technology Center Petition Count Sheet	Application No. 14/510,324	Applicant(s) POULARD, FABIEN	

Petition Code	Petition Type
<input type="checkbox"/> 601	Petition to Make Special, Age or Health (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 604	Petition to Make Special, Accelerated Examination (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 607	Petition to Make Special, For Reasons not Provided in 601-606 and 639-640 (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 608	Petition to Reopen After a Board Decision (37 CFR 1.198)
<input type="checkbox"/> 609	Petition for Review of Final Restriction Requirement (37 CFR 1.144)
<input type="checkbox"/> 610	Petition Invoking Authority of Commissioner under 37 CFR 1.181 Not Specified in Codes 611-617
<input type="checkbox"/> 611	Petition Relating to Prematureness of Final Rejection (37 CFR 1.181, MPEP § 706.07)
<input type="checkbox"/> 612	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.181 and 1.127, MPEP § 714.09)
<input type="checkbox"/> 613	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 711.03)
<input type="checkbox"/> 614	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 7.14.19)
<input type="checkbox"/> 615	Petition Relating to Formal Sufficiency / Propriety of Affidavits (37 CFR 1.131, 1.132, 1.608, MPEP § 608.04(C))
<input type="checkbox"/> 617	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.312)
<input type="checkbox"/> 620	Petition for Extension of Time (37 CFR 1.136 (b))
<input type="checkbox"/> 622	Petition Concerning Appeal Application before Transfer of Jurisdiction to Board of Appeals (MPEP § 1206)
<input type="checkbox"/> 623	Petition for Second or Subsequent Suspension of Action (37 CFR 1.103, MPEP § 709)
<input checked="" type="checkbox"/> 634	Petition to Correct Inventorship in a Patent not in Interference (37 CFR 1.324, MPEP § 1481)
<input type="checkbox"/> 635	Petition to Correct Inventorship in a Patent Application (37 CFR 1.48)
<input type="checkbox"/> 636	Petition to Change Inventorship in a Patent (37 CFR 1.324)
<input type="checkbox"/> 637	Petition to Withdraw from Issue, before Payment of an Issue Fee (37 CFR 1.313(a))
<input type="checkbox"/> 639	Petition for Make Special Prospective Manufacture (37 CFR 1.102, MPEP § 708.02)
<input type="checkbox"/> 646	Petition for Make Special Accelerated Examination
<input type="checkbox"/> 690	Petition Related Color Drawings of Photographs
<input type="checkbox"/> 699	Petition for Matters Before Technology Center

Information Required for OPESS Processing

☒ GRANTED

☐ GRANTED-IN-PART

☐ DENIED

☐ DISMISSED

☒ Mail Decision and Enter Decision in Petition Database/PALM
☐ Copy Decision, Send to Scanning
☐ Fees Need to be Charged
☐

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Illinois Northern District Court - Eastern Div. on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 17cv04295	DATE FILED 6/7/2017	U.S. DISTRICT COURT Illinois Northern District Court - Eastern Div.
PLAINTIFF Aptargroup, Inc		DEFENDANT 3M Co., Merck & Co., Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,370,631		
2 8,936,177		
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,370,631 B2
APPLICATION NO. : 14/510324
DATED : June 21, 2016
INVENTOR(S) : Poulard et al.

Page 1 of 1

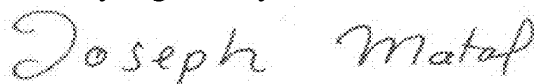
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Item (72) should read:

(72) Inventors Fabien Poulard, Rouen (FR);
Jean-Denis Sauzade, Grasse (FR);
Yann Roard, Cagnes Sur Mer (FR)

Signed and Sealed this
Twenty-eighth Day of November, 2017



Joseph Matal

*Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office*

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Illinois Northern District Court - Eastern Div on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 17cv06294	DATE FILED 8/30/2017	U.S. DISTRICT COURT Illinois Northern District Court - Eastern Div
PLAINTIFF Aptargroup, Inc.		DEFENDANT 3M Co.,
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,370,631		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

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AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 17-cv-4295	DATE FILED 6/7/2017	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF AptarGroup, Inc., et al		DEFENDANT 3M Company et al
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,936,177	1/20/2015	Aptar France
2 9,370,631	6/21/2016	Aptar France
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT case terminated

CLERK Thomas G. Bruton	(BY) DEPUTY CLERK A. Scherer	DATE 9/8/2017
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy