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CONFIRMATION NO. 7661

28289
THE WEBB LAW FIRM, P.C.
700 KOPPERS BUILDING
436 SEVENTH AVENUE
PITTSBURGH, PA 15219

FILING RECEIPT



Date Mailed: 02/08/2008

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Applicant(s)

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Power of Attorney: The patent practitioners associated with Customer Number 28289

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Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Lighting Fixture

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	5641-074505
		Application Number	
Title of Invention	Lighting Fixture		
<p>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.</p> <p>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.</p>			

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	James		Wassel			
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Application Information:

Title of the Invention	Lighting Fixture		
Attorney Docket Number	5641-074505	Small Entity Status Claimed	<input checked="" type="checkbox"/>
Application Type	Provisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	9	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	5641-074505
		Application Number	
Title of Invention	Lighting Fixture		

Publication Information:

<input type="checkbox"/>	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/>	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	5641-074505
		Application Number	
Title of Invention	Lighting Fixture		

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LIGHTING FIXTURE

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] The present invention relates, in general, to a lighting fixture for use as a street light or office lighting and, more particularly, to a lighting fixture that utilizes light emitting diodes (LEDs) as its light source.

Description of Related Art

[0002] Conventionally, street lights and office lights have utilized incandescent, halogen or fluorescent bulbs to provide light. The use of incandescent and halogen bulbs has been problematic in a number of ways. First, incandescent light bulbs are very energy inefficient. A large percentage of the energy they consume is released as heat, rather than light. Although fluorescent bulbs are more efficient than incandescent light bulbs, they are still very inefficient when compared to light emitting diodes (LEDs) or other similar solid state light emitters.

[0003] Additionally, incandescent and fluorescent light bulbs have short lifetimes when compared to solid state emitters. This requires lighting devices to be replaced more frequently. A short lifetime becomes even more problematic when used in overhead lighting in office buildings or in street lights where access may be difficult. Replacement is not only time consuming, but can be dangerous.

[0004] Furthermore, the unwanted heat produced in these lighting systems adds, not only to additional energy costs, but may also require additional air conditioning to lower the temperature of the area lit by the system. For example, in large buildings, overhead lighting is often provided by lights placed near the ceiling and directed downward. These buildings will require additional air conditioning to compensate for this energy produced as heat.

[0005] Although solid state emitters, such as LEDs, are known to be more energy efficient in general, LEDs have not been considered an option in the past for providing quality light in many applications, such as street lights and office lighting systems, because they do not provide enough useful light at a distance.

[0006] Accordingly, a need exists for a lighting fixture that can be used as a street light or an office lighting system that utilizes LEDs or other solid state emitters to provide quality light from a distance.

SUMMARY OF THE INVENTION

[0007] The present invention provides an LED lighting fixture that can be used as a street light or for office lighting. The LED lighting fixture of the present invention utilizes a configuration of LEDs and reflectors mounted on a base plate that provide quality light from a distance. In addition, the LED lighting fixture of the present invention is energy efficient and long lasting.

[0008] More specifically, the present invention is directed to a lighting fixture including a base plate having a front side and a rear side and a plurality of strips mounted on the front side of the base plate. Each of the plurality of strips includes a plurality of LEDs coupled thereto. The lighting fixture also includes at least one reflector positioned adjacent to each of the plurality of strips, mounted to the front side of the base plate and extending from the front side of the base plate at an angle and a power supply and control circuitry mounted on the rear side of the base plate. The power supply and control circuitry is electrically coupled to the plurality of LEDs. The angle of the reflectors causes the light produced by the LEDs to be amplified and formed into a single beam.

[0009] The lighting fixture may also include a transparent cover coupled to the front side of the base plate. A pole mounting member may be coupled to the rear side of the base plate. The pole mounting member allows a pole to be adjustably mounted to the lighting fixture. Additionally, a camera or motion detector may be mounted on the front side of the base plate.

[0010] The power supply and control circuitry may include a light detector that causes the LEDs to turn on when surrounding light has dropped below a predetermined level. Additionally, an LED light may be mounted on the rear side of the base plate and coupled to the power supply and control circuitry.

[0011] The base plate may include a plurality of notches positioned around a periphery thereof. The base plate may be constructed from anodized aluminum or any other suitable material.

[0012] These and other features and characteristics of the present invention, as well as the methods of operation and functions of the related elements of structures and the combination of parts and economies of manufacture, will become more apparent upon consideration of the following description and the appended claims with reference to the accompanying drawings, all of which form a part of this specification, wherein like reference numerals designate corresponding parts in the various figures.

BRIEF DESCRIPTION OF THE DRAWINGS

- [0013] FIG. 1 is an elevational view of a front side of a lighting fixture for use as a streetlight in accordance with the present invention;
- [0014] FIG. 2 is an elevational view of a rear side of the lighting fixture of FIG. 1;
- [0015] FIG. 3 is an elevational view of a side of the lighting fixture of FIG. 1;
- [0016] FIG. 4 is a cross-sectional view of a reflector used with the lighting fixture of FIG. 1;
- [0017] FIG. 5 is a schematic diagram of an exemplary embodiment of the circuitry used for controlling the lighting fixture of FIG. 1;
- [0018] FIG. 6 is an exemplary flow diagram illustrating a possible control configuration for the lighting fixture in accordance with the present invention;
- [0019] FIG. 7 is an elevational view of a front side of a lighting fixture for use as an office lighting fixture in accordance with the present invention;
- [0020] FIG. 8 is an elevational view of a rear side of the lighting fixture of FIG. 7;
- [0021] FIG. 9 is an elevational view of a side of the lighting fixture of FIG. 7;
- [0022] FIG. 10 is a cross-sectional view of a reflector used with the lighting fixture of FIG. 7; and
- [0023] FIG. 11 is a cross-sectional view of a reflector in accordance with another embodiment of the present invention.

DETAILED DESCRIPTION OF THE PRESENT INVENTION

[0024] For purposes of the description hereinafter, the terms “upper”, “lower”, “right”, “left”, “vertical”, “horizontal”, “top”, “bottom”, “lateral”, “longitudinal” and derivatives thereof shall relate to the invention as it is oriented in the drawing figures. However, it is to be understood that the invention may assume various alternative variations, except where expressly specified to the contrary. It is also to be understood that the specific devices illustrated in the attached drawings, and described in the following specification, are simply exemplary embodiments of the invention.

[0025] With reference to FIGS. 1 - 3, a lighting fixture 1, for use as a streetlight, includes a base plate 3 having a front side 5 and a rear side 7. Three strips 9 are mounted on front side 5 of base plate 3. Each strip 9 includes a plurality of surface-mount LEDs 11 mounted thereto. Base plate 3 is about 1/8 to 1/4 of an inch thick and is constructed from anodized aluminum or any other suitable material. Base plate 3 functions as a heat sink for LEDs 11 and is oversized

compared to strips 9 to ensure that LEDs 11 stay cool regardless of the outdoor temperature. Additionally, base plate 3 may be formed in the shape of a football, baseball glove, hockey stick, etc. to provide a decorative beam of light. LEDs 11 are high-power LEDs such as the LUXEON® Rebel manufactured by Phillips Lumileds Lighting Company or the Cree® XLamp® XR-E LED manufactured by Cree, Inc.

[0026] Lighting fixture 1 also includes a transparent cover 6 coupled to front side 5 of base plate 3. Transparent cover 6 may be coupled to base plate 3 using any suitable fastening member such as bolts 8. A pole mounting member 10 is coupled to rear side 7 of base plate 3. Pole mounting member 10 includes a plurality of mounting holes 12 for receiving a fastening member (not shown) which allows a pole to be adjustably mounted to lighting fixture 1. Lighting fixture 1 is configured to be mounted at a height sufficient to provide adequate lighting to a street or surface below. For instance, if lighting fixture 1 is mounted on a pole at a height of 30 feet above a street, lighting fixture 1 will provide a lighting pattern that extends about 23 feet from the base of the pole and about 15 feet on either side of the pole. Additionally, a camera and/or motion detector (not shown) may be mounted on front side 5 of base plate 3 for surveillance purposes.

[0027] Reflectors 13 are positioned adjacent to the top and the bottom of each of strips 9. Reflectors 13 are mounted to front side 5 of base plate 3 and extend from front side 5 of base plate 3 at an angle. With reference to FIG. 4, and with continuing reference to FIGS. 1 - 3, each strip 9 has two reflectors 13 extending therefrom. Each of the reflectors 13 has several angles therein as shown in FIG. 4. Each reflector 13 extends from base plate 3 at an initial angle of about 123° from an axis of symmetry X. The reflectors 13 then angle back towards the axis of symmetry X at an angle of about 170°. Thereafter, the reflectors 13 are again angled back towards axis of symmetry X at an angle of about 170°. This configuration creates an angle of about 40° between the ends 14 of each of reflectors 13.

[0028] The combination of these angles creates facets in the reflector which amplify the light provided by LEDs 11. In addition, reflectors 13 direct the light from each of the three strips 9 of LEDs 11 and focus the light into what appears to be a single beam of light. Reflectors 13 are constructed from silver-coated aluminum with a protective polymer coating. Such a material has a reflectivity that is from 95% to 98% reflective. Additionally, the polymer coating prevents corrosion on reflectors 13. However, the use of silver-coated aluminum reflectors is not to be construed as limiting the present invention as any highly-reflective material may be used to

construct the reflectors. While **FIG. 4** illustrates one possible configuration of reflectors **13**, this is not to be construed as limiting the present invention as other configurations have been envisioned.

[0029] With reference to **FIG. 5**, and with continuing reference to **FIGS. 1 - 3**, lighting fixture **1** includes a power supply and control circuitry **15** positioned within a housing **17** mounted on rear side **7** of base plate **3**. Power supply and control circuitry **15** is electrically coupled to the plurality of LEDs **11**. Housing **17** includes a window **19** with a light detector **21** positioned thereunder. Light detector **21** causes LEDs **11** to turn on when surrounding light has dropped below a predetermined level as will be described hereinafter. An exemplary embodiment of power supply and control circuitry **15** is illustrated in **FIG. 5**. However, this is not to be construed as limiting the present invention as the use of other circuitry configurations, microprocessors and microcontrollers has been envisioned.

[0030] An LED light (not shown) may also be mounted on rear side **7** of base plate **3** and coupled to power supply and control circuitry **15** so that when the utility workers are working on the pole where light fixture **1** is mounted, they will be able to turn it on and see above lighting fixture **1**. This LED light may be turned on manually, through the use of a magnetic switch, by an infrared sensor or by an ultrasonic sensor.

[0031] Power supply and control circuitry **15** includes a controller that works in conjunction with light detector **21** to automatically turn lighting fixture **1** on and off. With reference to **FIG. 6**, the controller functions as follows. First, power is supplied to the controller thereby initializing the controller at block **600**. Then, at block **610**, light detector **21** looks for dusk. Once dusk is detected by light detector **21**, lighting fixture **1** is turned on at full power at block **620**. At blocks **630** and **640**, after a predetermined period of time, the power of the light is reduced by 25% to 75%. Thereafter, at block **650**, light detector **21** looks for dawn. Once dawn is detected by light detector **21**, lighting fixture **1** is turned off by the controller and the process returns to block **610**. Accordingly, by reducing power by 25% to 75% after lighting fixture **1** has been on for a predetermined period of time, a savings of up to 90% of power over a current mercury vapor streetlight or high pressure sodium streetlight can be achieved. Additionally, this process extends the life of LEDs **11**.

[0032] With reference to **FIGS. 7 - 9**, a lighting fixture **1'**, for use as office lighting, includes a base plate **3'** having a front side **5'** and a rear side **7'**. Three strips **9'** are mounted on front side

5' of base plate 3'. Each strip 9' includes a plurality of surface-mount LEDs 11' mounted thereto. Base plate 3' functions as a heat sink for LEDs 11' and is oversized compared to strips 9' to ensure that LEDs 11' stay cool. Base plate 3' includes a plurality of grooves 23 along a periphery thereof. Grooves 23 provide additional square inches of cooling which also extends LED life. Lighting fixture 1' is intended for indoor use. Accordingly, a transparent cover 6 is not required.

[0033] Reflectors 13' are positioned adjacent to the top and the bottom of each of strips 9'. Reflectors 13' are mounted to front side 5' of base plate 3' and extend from front side 5' of base plate 3' at an angle. With reference to FIG. 10, and with continuing reference to FIGS. 7 - 9, each strip 9' has two reflectors 13' extending therefrom. Each reflector 13' extends from base plate 3' at an initial angle of about 115° from an axis of symmetry X. This configuration creates an angle of about 90° between the ends 14' of each of reflectors 13'.

[0034] Reflectors 13' amplify the light provided by LEDs 11'. In addition, reflectors 13' direct the light from each of the three strips 9' of LEDs 11' and focus the light into what appears to be a single beam of light. As discussed above, reflectors 13' are constructed from silver-coated aluminum with a protective polymer coating.

[0035] With reference to FIG. 11, another possible configuration for the reflector is provided. Each of the reflectors 13'' has several angles therein as shown in FIG. 11. Each reflector 13'' extends from base plate 3 at an initial angle of about 121° from an axis of symmetry X. The reflectors 13'' then angle back towards the axis of symmetry X at an angle of about 165°. This configuration creates an angle of about 60° between the ends 14'' of each of reflectors 13''.

[0036] The combination of these angles creates facets in the reflector which amplify the light provided by LEDs 11. In addition, reflectors 13'' direct the light from each of the three strips 9 of LEDs 11 and focus the light into what appears to be a single beam of light. Reflectors 13'' are constructed from silver-coated aluminum with a protective polymer coating.

[0037] Although the invention has been described in detail for the purpose of illustration based on what is currently considered to be the most practical and preferred embodiments, it is to be understood that such detail is solely for that purpose and that the invention is not limited to the disclosed embodiments, but, on the contrary, is intended to cover modifications and equivalent arrangements. Furthermore, it is to be understood that the present invention contemplates that, to the extent possible, one or more features of any embodiment can be combined with one or more features of any other embodiment.

THE INVENTION CLAIMED IS

1. A lighting fixture comprising:
a base plate having a front side and a rear side;
a plurality of strips mounted on the front side of the base plate, each of the plurality of strips including a plurality of light emitting diodes (LEDs) coupled thereto;
at least one reflector positioned adjacent to each of the plurality of strips, mounted to the front side of the base plate and extending from the front side of the base plate at an angle;
and
a power supply and control circuitry mounted on the rear side of the base plate, the power supply and control circuitry electrically coupled to the plurality of LEDs,
wherein the angle of the reflectors causes light produced by the LEDs to be amplified and formed into a single beam.
2. The lighting fixture of claim 1, wherein a transparent cover is coupled to the front side of the base plate.
3. The lighting fixture of claim 1, wherein a pole mounting member is coupled to the rear side of the base plate.
4. The lighting fixture of claim 3, wherein the pole mounting member allows a pole to be adjustably mounted to the lighting fixture.
5. The lighting fixture of claim 1, wherein an LED light is mounted on the rear side of the base plate and coupled to the power supply and control circuitry.
6. The lighting fixture of claim 1, wherein the power supply and control circuitry includes a light detector that causes the LEDs to turn on when surrounding light has dropped below a predetermined level.

7. The lighting fixture of claim 1, wherein the base plate includes a plurality of notches positioned around a periphery thereof.

8. The lighting fixture of claim 1, wherein a camera is mounted on the front side of the base plate.

9. The lighting fixture of claim 1, wherein a motion detector is mounted on the front side of the base plate.

10. The lighting fixture of claim 1, wherein the base plate is constructed from anodized aluminum.

ABSTRACT OF THE INVENTION

A lighting fixture includes a base plate having a front side and a rear side and a plurality of strips mounted on the front side of the base plate. Each of the plurality of strips includes a plurality of LEDs coupled thereto. The lighting fixture also includes at least one reflector positioned adjacent to each of the plurality of strips, mounted to the front side of the base plate and extending from the front side of the base plate at an angle and a power supply and control circuitry mounted on the rear side of the base plate. The power supply and control circuitry is electrically coupled to the plurality of LEDs. The angle of the reflectors causes the light produced by the LEDs to be amplified and formed into a single beam.

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

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL
For FY 2008**☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 105.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	James Wassel
Examiner Name	Not Yet Assigned
Art Unit	Not Yet Assigned
Attorney Docket No.	5641-074505

METHOD OF PAYMENT (check all that apply)☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: 23-0650 Deposit Account Name: The Webb Law Firm

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	310	155	510	255	210	105	
Design	210	105	100	50	130	65	
Plant	210	105	310	155	160	80	
Reissue	310	155	510	255	620	310	
Provisional	210	105	0	0	0	0	105.00

2. EXCESS CLAIM FEES**Fee Description**

	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	210	105
Multiple dependent claims	370	185

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP =	x	=	

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

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	=	

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 \$260 (\$130 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).

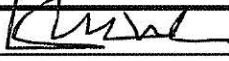
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

Fees Paid (\$)**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 37,891	Telephone 412-471-8815
Name (Print/Type)	Kirk M. Miles	Date December 21, 2007	

This collection of information is required by 37 CFR 1.136. 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 30 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.

Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Remove

Given Name

Middle Name

Family Name

City

State

Country i

James

Wassel

Zelienople

PA

US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Title of Invention

Lighting Fixture

Attorney Docket Number (if applicable)

5641 074505

Correspondence Address

Direct all correspondence to (select one):

☒ The address corresponding to Customer Number

☐ Firm or Individual Name

Customer Number

28289

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Entity Status

Applicant claims small entity status under 37 CFR 1.27

- ☒ Yes, applicant qualifies for small entity status under 37 CFR 1.27
☐ No

Warning

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/kirkmmiles/			Date (YYYY-MM-DD)	Dec 21, 2007
First Name	Kirk	Last Name	Miles	Registration Number (If appropriate)	37891

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **This form can only be used when in conjunction with EFS-Web. If this form is mailed to the USPTO, it may cause delays in handling the provisional application.**

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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.
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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.

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

Lighting Fixture

First Named Inventor/Applicant Name:

James Wassel

Filer:

Kirk M. Miles/Dianne Kimak

Attorney Docket Number:

5641-074505

Filed as Small Entity

Provisional Filing Fees

Description

Fee Code

Quantity

Amount

**Sub-Total in
USD(\$)**

Basic Filing:

Provisional Application filing fee

2005

1

105

105

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(\$)
Miscellaneous:				
Total in USD (\$)				105

Electronic Acknowledgement Receipt

EFS ID:	2627949
Application Number:	61015713
International Application Number:	
Confirmation Number:	7661
Title of Invention:	Lighting Fixture
First Named Inventor/Applicant Name:	James Wassel
Customer Number:	28289
Filer:	Kirk M. Miles/Dianne Kimak
Filer Authorized By:	Kirk M. Miles
Attorney Docket Number:	5641-074505
Receipt Date:	21-DEC-2007
Filing Date:	
Time Stamp:	10:22:13
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 105
RAM confirmation Number	6962
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part (.zip)	Pages (if appl.)
Page 23 of 34				CURRENT	Ex 1008

1	Application Data Sheet	074505_ADS.pdf	963569	no	4
			618e20532f4e26824a05a04b4bd4b769645a23b9		
Warnings:					
Information:					
2		074505_APPL.pdf	998869	yes	9
			cd658172bf533ca4c66520d6abdf12068fb2e87a		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	6	
	Claims		7	8	
	Abstract		9	9	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	074505_DRW.pdf	438743	no	9
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Information:					
4	Fee Worksheet (PTO-06)	074505_FEES.pdf	176089	no	1
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Warnings:					
Information:					
5	Provisional Cover Sheet (SB16)	074505_PROV.pdf	641640	no	3
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Warnings:					
Information:					
6	Fee Worksheet (PTO-06)	fee-info.pdf	8094	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			3227004		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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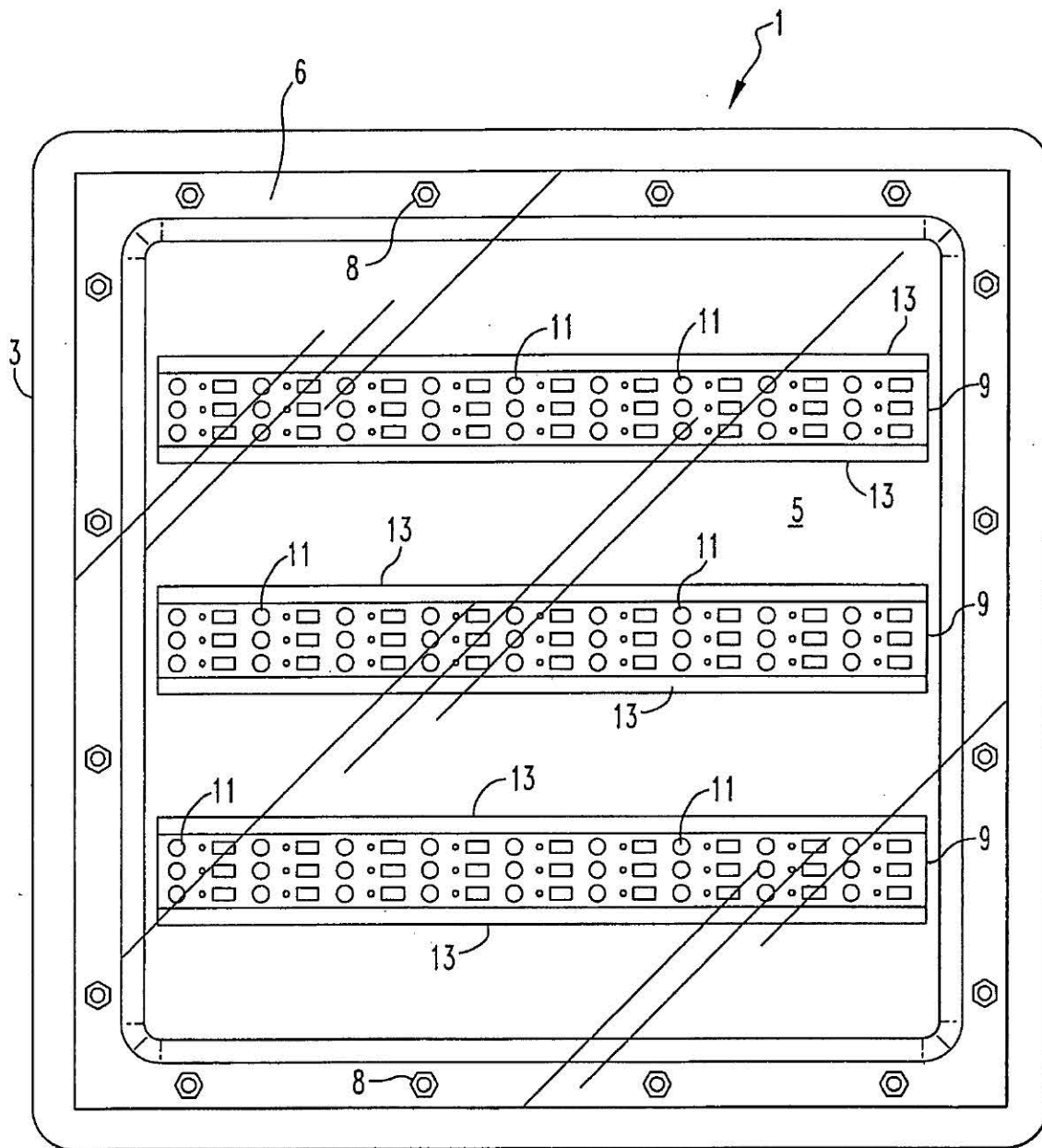


FIG.1

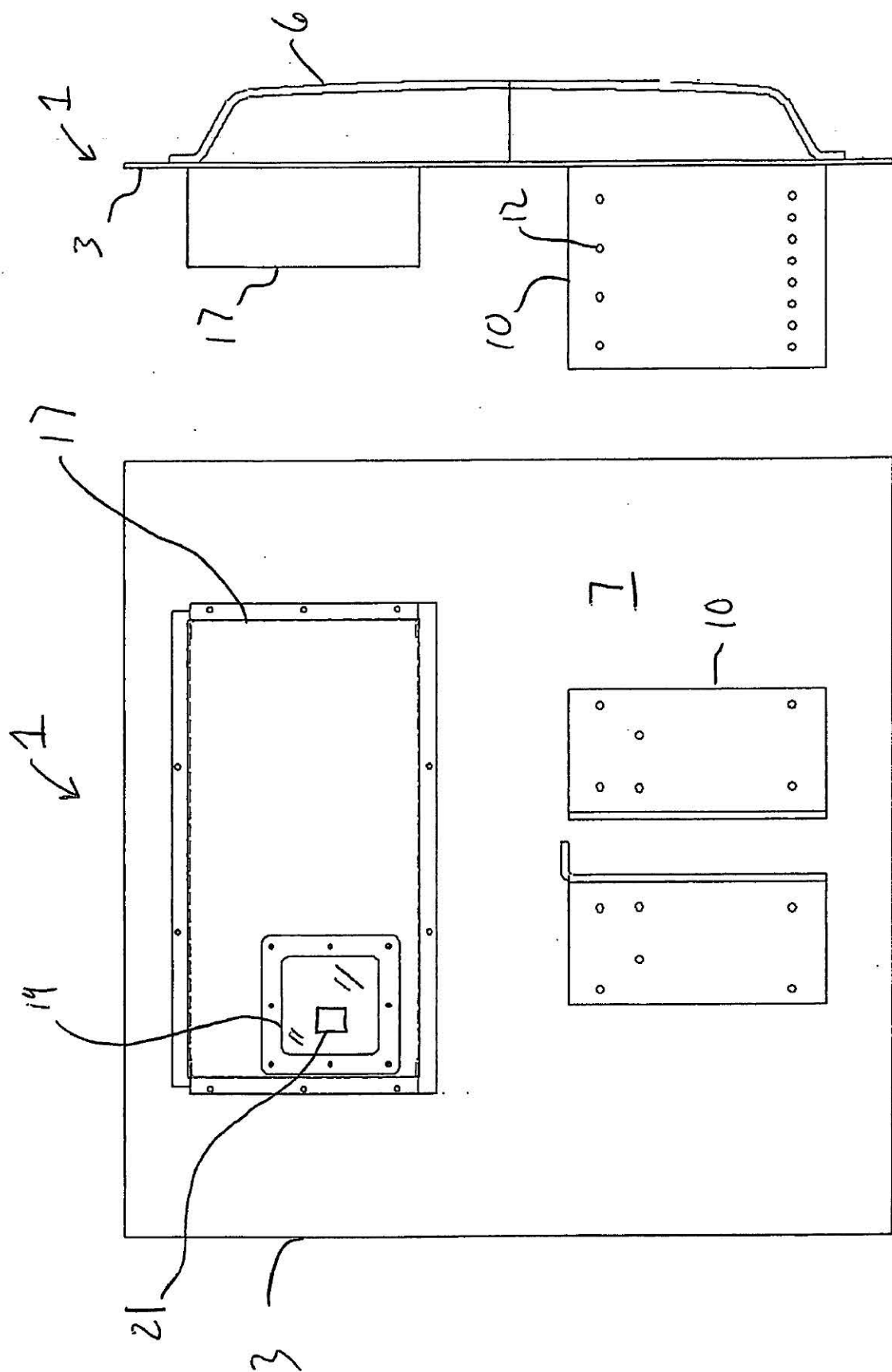


FIG. 2

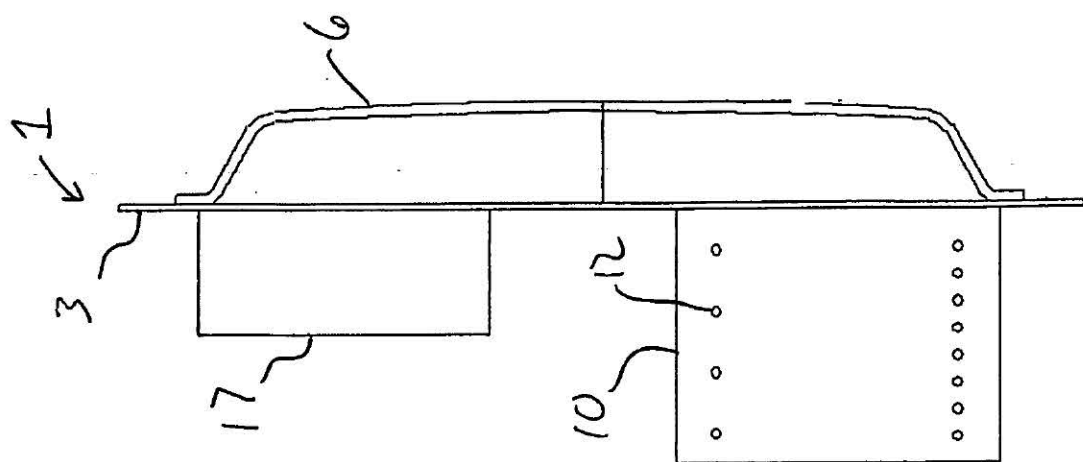
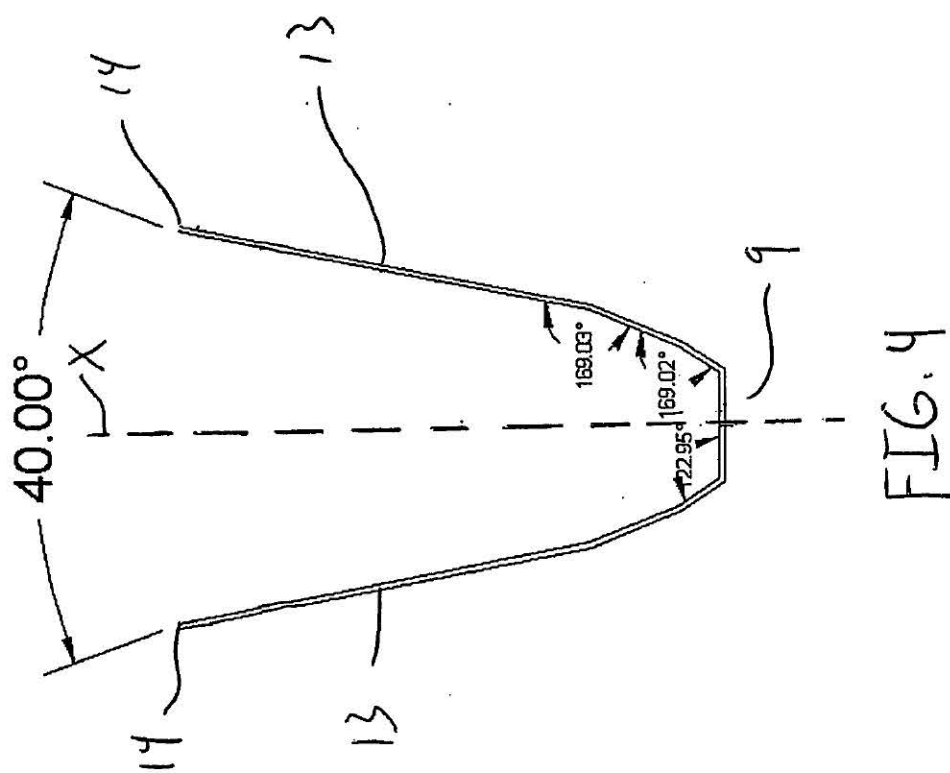


FIG. 3



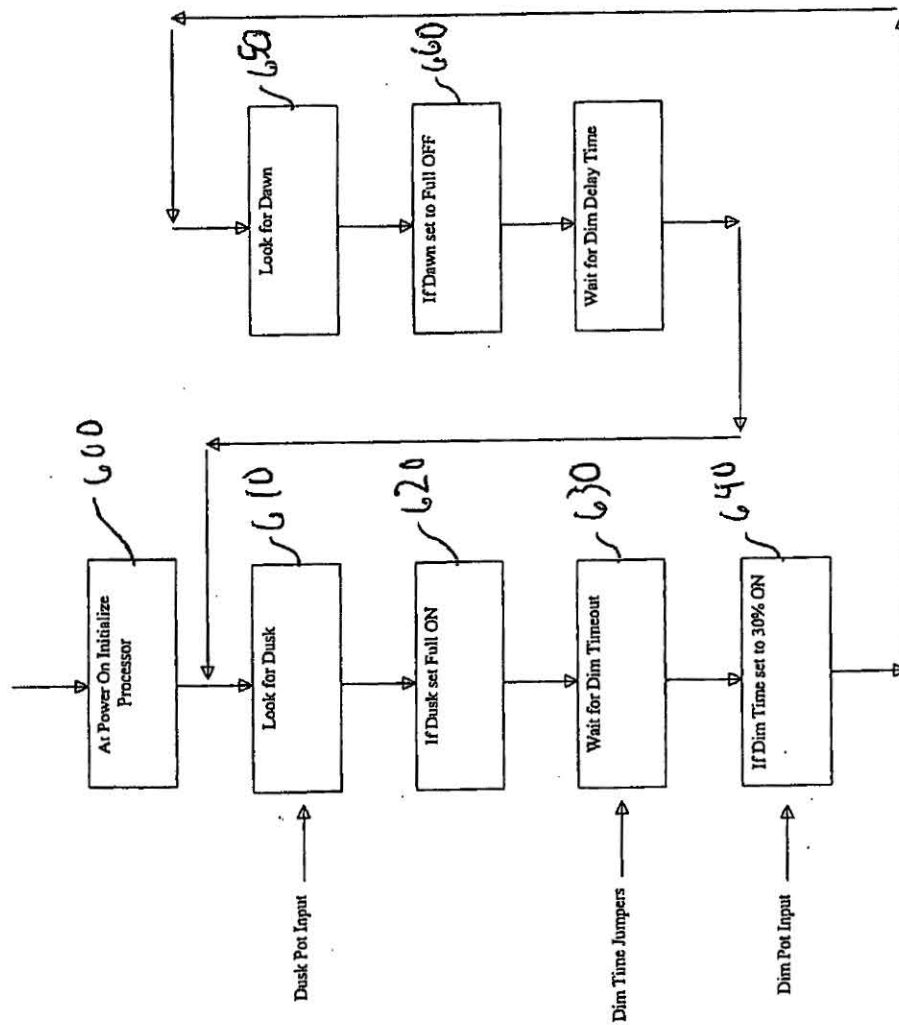
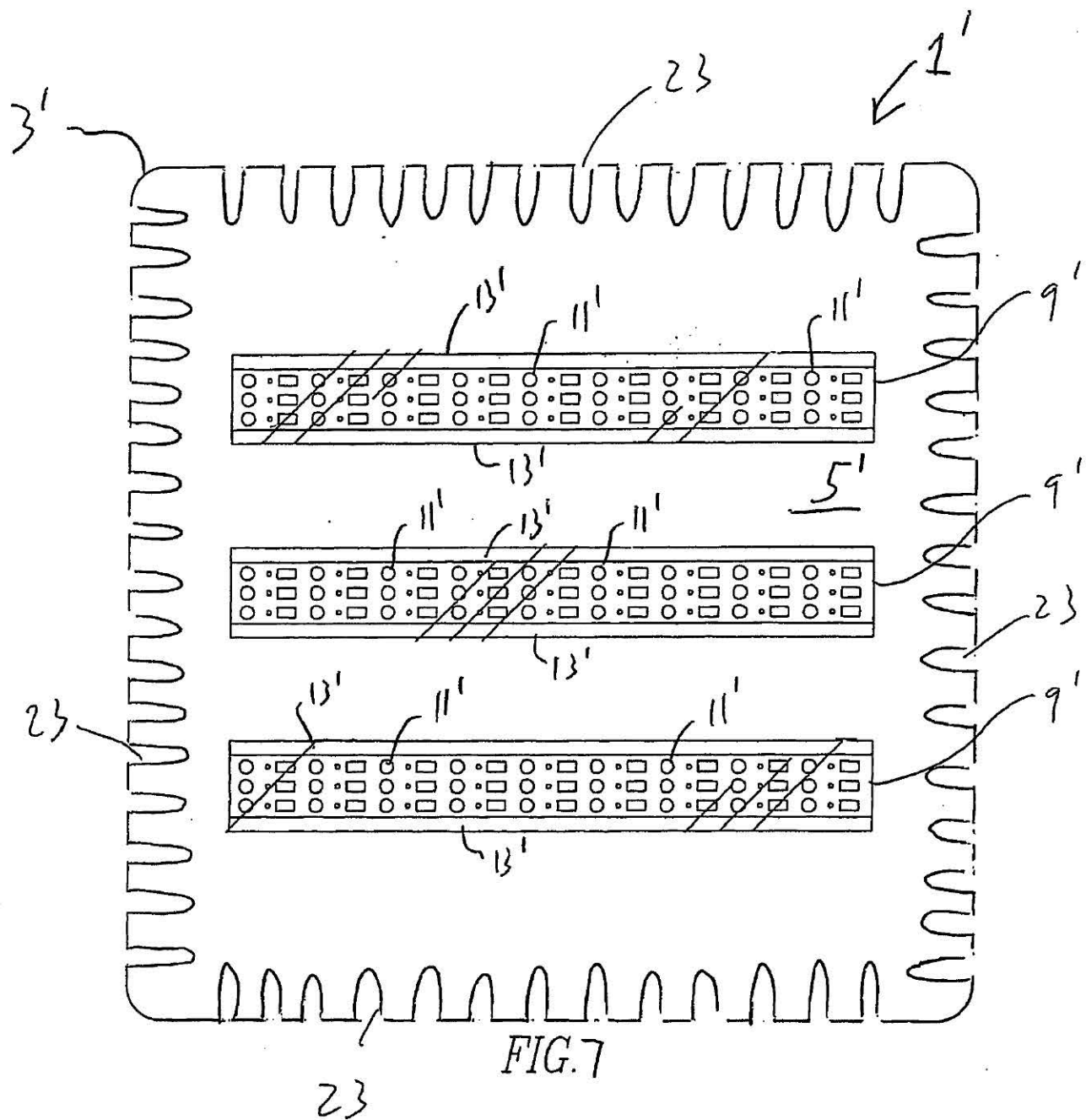


FIG. 6



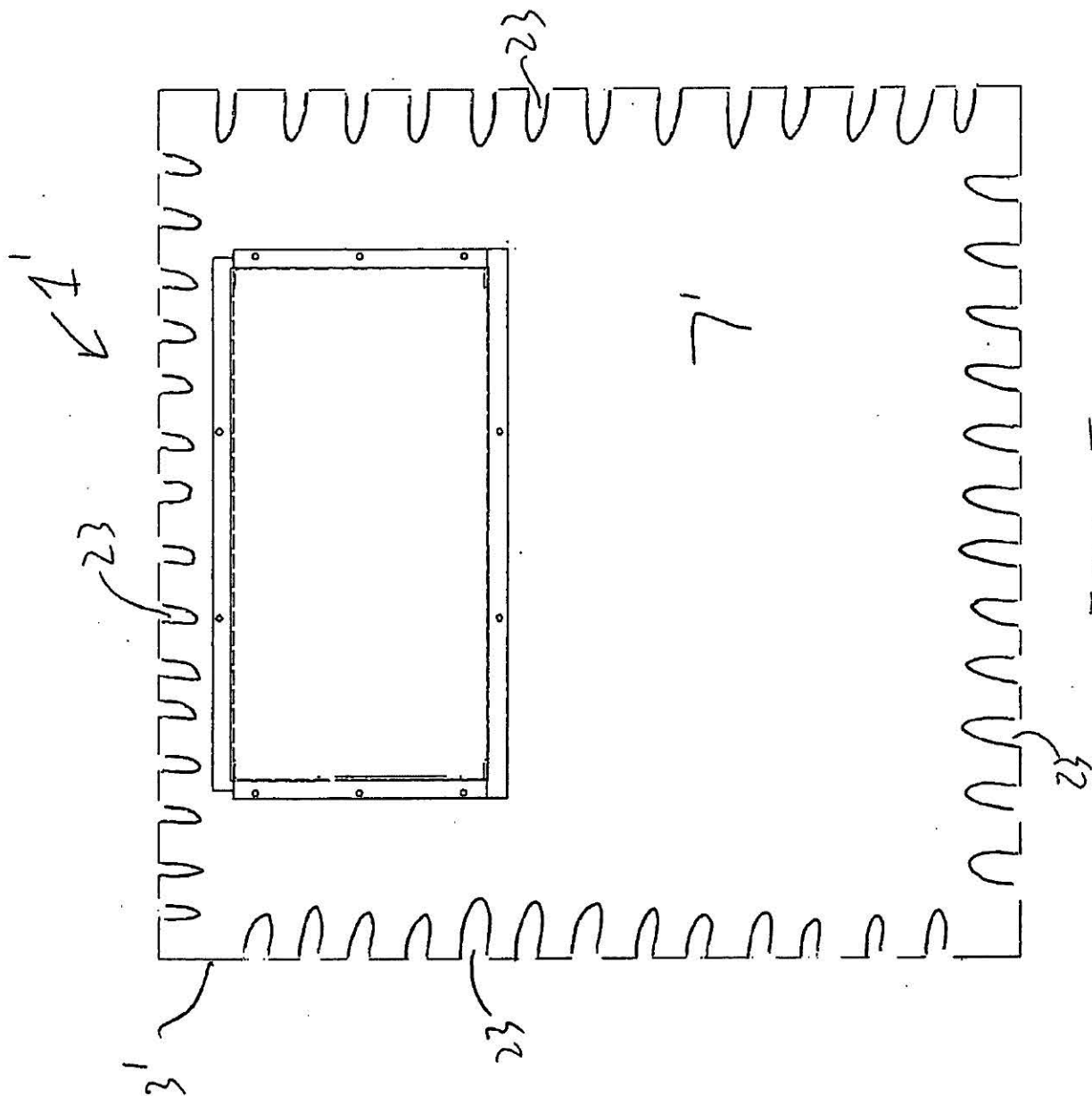


FIG. 8

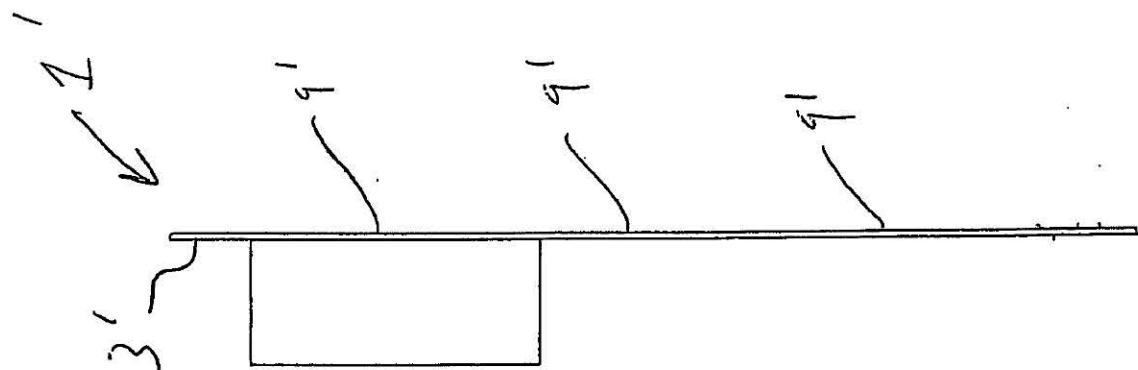


FIG. 9

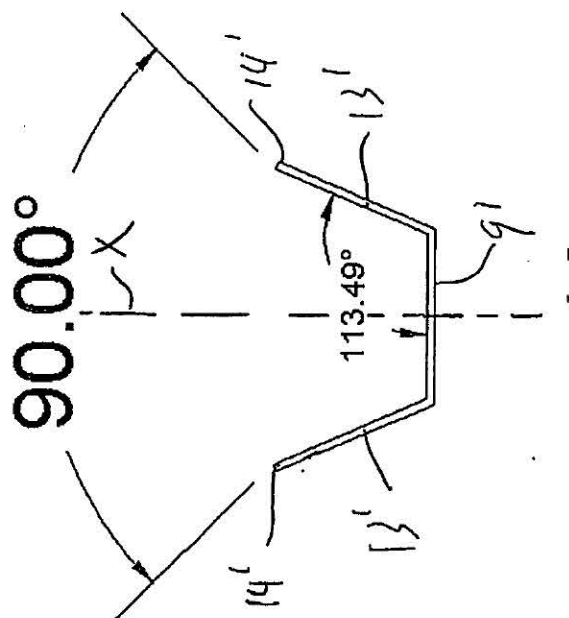


FIG. 10

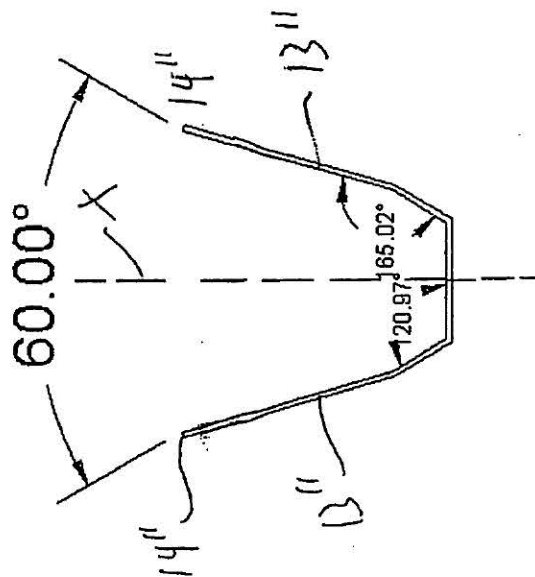


FIG. 11