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U.S. PTO

PTO/SB/16 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2

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

Express Mail Label No. **EQ 885995700 US**

U.S. PTO

60/997771

10/06/2007

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
MIKE	MISKIN	2 PINE CONE LANE SLEEPY HOLLOW IL 60118 USA

Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (500 characters max)

AC LED ASSEMBLY AND LIGHTING SYSTEM METHOD AND APPARATUS

Direct all correspondence to: **CORRESPONDENCE ADDRESS**

☒ The address corresponding to Customer Number:

OR

☐ Firm or Individual Name **FACTOR & LAKE, LTD.**

Address **1327 W. Washington Blvd., Suite 5G/H**

City	CHICAGO	State	ILLINOIS	Zip	60607
Country	USA	Telephone	312-226-1818	Email	jmelket@factor-lake.com

ENCLOSED APPLICATION PARTS (check all that apply)

☐ Application Data Sheet. See 37 CFR 1.76	☐ CD(s), Number of CDs _____
☒ Drawing(s) Number of Sheets <u>6</u>	☐ Other (specify) _____
☒ Specification (e.g. description of the invention) Number of Pages <u>4</u>	

Fees Due: Filing Fee of \$200 (\$100 for small entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which is \$250 (\$125 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).

METHOD OF PAYMENT OF FILING FEES AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT

☒ Applicant claims small entity status. See 37 CFR 1.27.

☒ A check or money order is enclosed to cover the filing fee and application size fee (if applicable).

☐ Payment by credit card. **TOTAL FEE AMOUNT (\$)**

☐ The Director is hereby authorized to charge filing fee and application size fee (if applicable) or credit any overpayment to Deposit Account Number: _____. A duplicative copy of this form is enclosed for fee processing.

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

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. 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 COVER SHEET

Page 2 of 2

PTO/SB/16 (07-06)

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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.

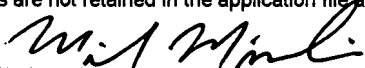


Yes, the name of the U.S. Government agency and the Government contract number are: _____

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 the 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 _____



Date 10/06/2007

TYPED or PRINTED NAME MIKE MISKIN

REGISTRATION NO. _____

(if appropriate)

TELEPHONE 847-783-0123 _____

Docket Number: PO146 _____

AC LED ASSEMBLY AND LIGHTING SYSTEM METHOD AND APPARATUS

RELATED APPLICATIONS

[Para 1] The present application claims priority to U.S. Provisional Application No. 60/547,653, filed February 25, 2005 and U.S. Provisional Application No. 60/559,867, filed April 6, 2004, both of which are incorporated herein by reference.

TECHNICAL FIELD

[Para 2] The present invention generally relates to light emitting diodes ("LEDs") and LED drive methods. The present invention specifically relates to AC LED assemblies and AC LED assembly lighting systems.

FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

[Para 3] None.

BACKGROUND OF THE INVENTION

[Para 4] LEDs are semiconductor devices that produce light when a current is supplied to them. LEDs are intrinsically DC devices that only pass current in one polarity and historically have been driven by DC voltage sources using resistors, current regulators and voltage regulators to limit the voltage and current delivered to the LED. Some LEDs have resistors built into the LED package providing a higher voltage LED typically driven with 5V DC or 12V DC.

[Para 5] With proper design considerations LEDs may be driven more efficiently with AC than with DC drive schemes. LED based lighting may be used for general lighting, specialty lighting, signs and decoration such as for Christmas tree lighting. For example, U.S. Pat. No. 5,495,147 entitled LED LIGHT STRING SYSTEM to Lanzisera (hereinafter "Lanzisera") and U.S. Pat. No. 4,984,999 entitled STRING OF LIGHTS SPECIFICATION to Leake (hereinafter "Leake") describes different forms of LED based light strings. In both Lanzisera and Leake, exemplary light strings are described employing purely parallel wiring of discrete LED lamps using a step-down transformer and rectifier power conversion scheme. This type of LED light string converts input electrical power, usually assumed to be the common U.S. household power of 110 VAC, to a low voltage, rectified to nearly DC input.

[Para 6] LEDs can be operated from an AC source more efficiently if they are connected in an "opposing parallel" configuration.

[Para 7] Pat. Pending Application No. 0015968A1 entitled **PREFERRED EMBODIMENT TO LED LIGHT STRING** to Allen (hereinafter "Allen") discloses AC powered LED-based light strings. Allen describes LED light strings employing series parallel blocks with a voltage matching requirement for direct AC drive placing fundamental restrictions on the number of diodes (LEDs) on each diode series block, depending on the types of diodes used. Allen discloses that for the forward voltage to be "matched," in each series block, the peak input voltage must be less than or equal to the sum of the maximum forward voltages for each series block in order to prevent over-driving.

[Para 8]

[Para 9] LEDs driven with 50/60 Hz AC are known to flicker. A true AC LED circuit has LEDs connected in opposing parallel configuration so that one each half cycle of the AC waveform powers one half the LED circuit causing the LEDs to take turns thus causing flicker.

[Para 10] One way to reduce flicker is to increase the frequency of the AC waveform as taught by Clauberg patent # ----- and Miskin patent application number-----.

[Para 11] LED semiconductor die have been integrated into LED packages and configured into AC LED circuits within an LED device and/or package as thought by Seoul patent # _____ and Miskin patent # _____. These LEDs are configured in anti-parallel configuration at the semiconductor level.

[Para 12] The density of the LED die placement in these AC LED packages can reduce and/or eliminate flicker when powered with low frequency AC such as the 50/60 Hz mains voltage enables these LEDs to be powered with low frequency AC voltages at frequencies of 50/60 Hz as provided by mains power sources.

[Para 13] Handling and packaging LED semiconductor die requires special facilities, equipment and professional staff. The capital investment needed to acquire and/or build these resources places limits on the availability of AC LED technology that can operate on lower frequency AC voltages such as the 50/60 Hz mains.

[Para 14] The present invention addresses the above-noted shortcomings of the prior art while providing new methods of packaging AC LED technology that can be driven at low frequency AC voltages thereby offering benefits and advantages over prior art.

[Para 15] It would be advantageous to be able to manufacture AC LED assemblies that can operate on low frequency AC voltages without having to use packaged AC LED devices.

[Para 16] It would be advantageous to be able to manufacture AC LED assemblies that can operate on low frequency AC voltages without having to integrate and package the raw semiconductor LED die within a LED semiconductor packages more easily.

[Para 17] It would be advantageous to be able to manufacture AC LED products that can operate on low frequency AC voltages such as the mains power source more cost effectively and without having to acquire all the resources needed to package raw semiconductor LED die.

[Para 18] It would be advantageous to be able to operate these AC LED assemblies over low frequency AC voltages sources such as direct mains 120/220Vac and/or lower AC voltages such as 12Vac or 24Vac provided through step down magnetic transformers.

SUMMARY OF THE INVENTION

[Para 19] AC LED assemblies can be designed and manufactured without packaged AC LED devices and operate on low frequency AC voltages without producing low frequency flicker effects by utilizing very small prepackaged LEDs that can be placed onto a printed circuit board assembly at a spatial separation that is dense enough to cause the flicker to be reduced and/or eliminated by virtue of the eye integrating the light distributed by the AC LED assembly at low frequencies.

[Para 20] It is also contemplated that the light distributed from such an AC LED assembly would cause photons and /or light beams to cross paths based on the light distribution and/or viewing angle of the prepackaged LEDs being used in the AC LED assembly thereby integrating distributed light and reducing the effects of flicker at low frequency AC voltage.

[Para 21] According to one broad aspect of the invention a LED assembly is provided having one or more LED circuits. Each LED circuit has at least two packaged LEDs connected to each other in opposing parallel relation at a special separation less than 3mm. The at least two LEDs are of a dimension less than 2.5mm x 2.5 mm. The AC LED circuit may be also be comprised of LEDs configured in anti-parallel and cross connected between opposing phases so that the opposing sides of the anti-parallel LEDs are forward biased at both half cycles of an AC wave so that many of the LEDs are on during both half cycles of an AC wave.

Claims:

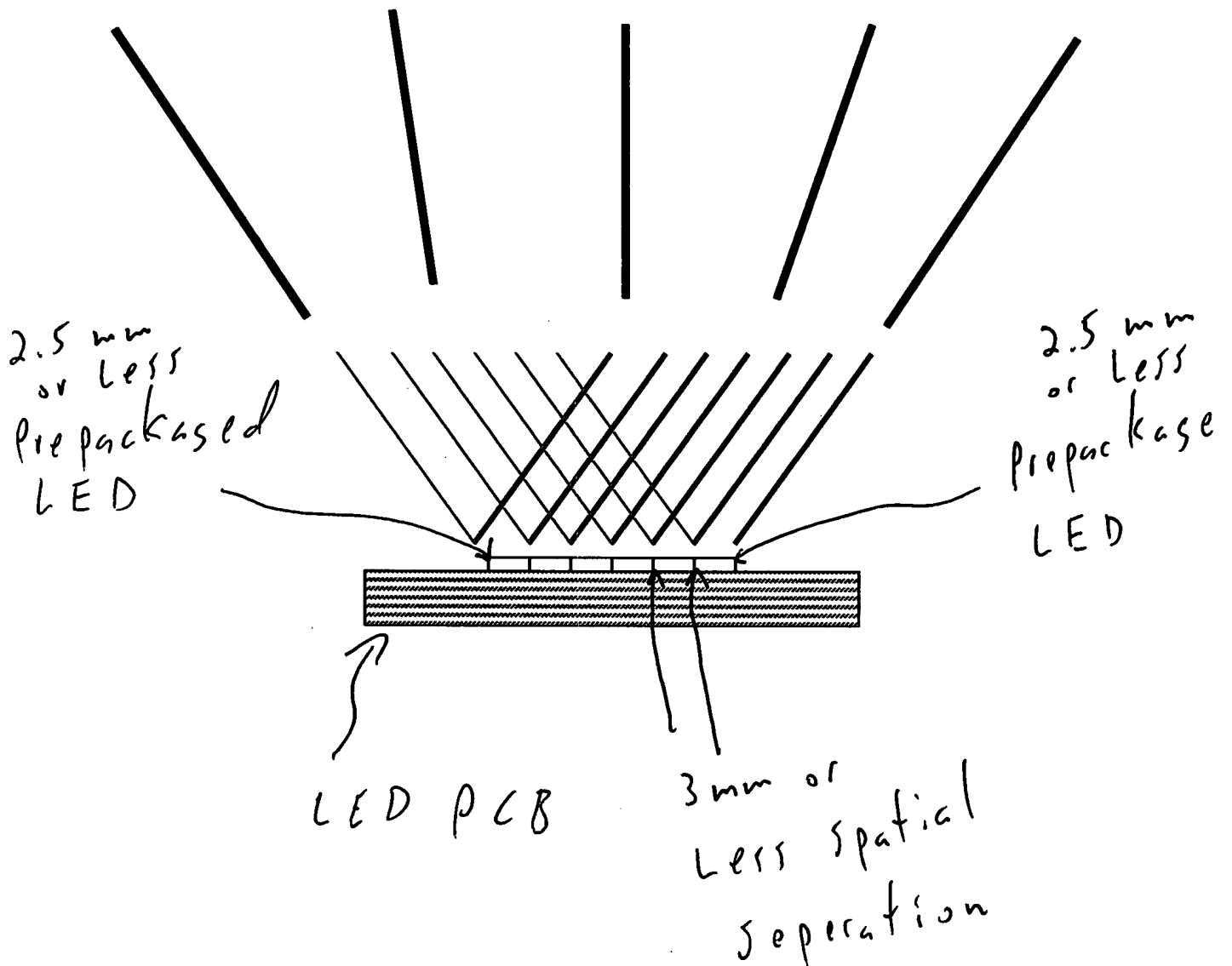
1. **An AC LED assembly comprising:**
At least two packaged LEDs having a dimension less than 2.5mm x 2.5mm in size,
a thermally conductive printed circuit board,
the at least two packaged LEDs being mounted onto the thermally conductive printed circuit board
the at least two packaged LEDs placed on the thermally conductive printed circuit board at a special separation that is less than 3mm between the at least two LEDs.
2. **The AC LED assembly of claim 1 being connected to a low frequency AC power source.**
3. **The AC LED assembly of claim 1 having LEDs with a light distribution viewing angle that is broad enough to cause the light beam or distribution of one LED to cross the path of the LED next to it.**
4. **The AC LED assembly of claim 1 configured such that it can be powered with a high frequency low voltage AC electronic transformer.**
5. **The AC LED assembly of claim 1 configured such that it can be configured such that it can be powered by a magnetic transformer**
6. **The method of manufacturing the AC LED assembly of claim one as an independent circuit.**
7. **The method of manufacturing the AC LED assembly of claim 1 in a printed circuit board panel.**
8. **The method of claims 1 and 7 having more than one of the AC LED assemblies of claim 1 electrically connected to at least one other AC LED assemblies on the same printed circuit board panel.**



ACLED
Assembly

Fig 1

Fig 2



50% duty cycle

$\frac{1}{2}$ of LEDs on
at a time

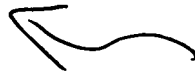
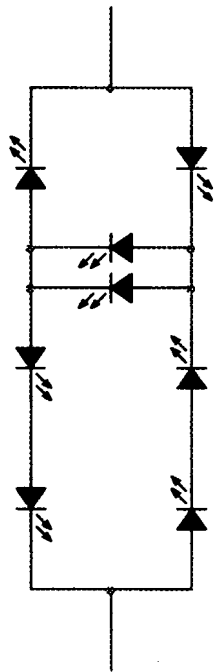
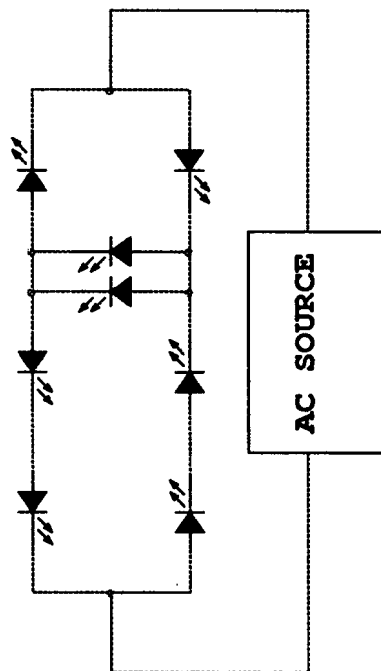
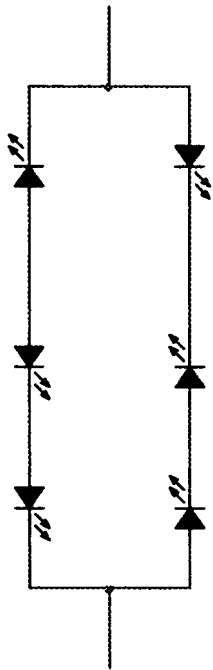


Fig 3

Fig 4

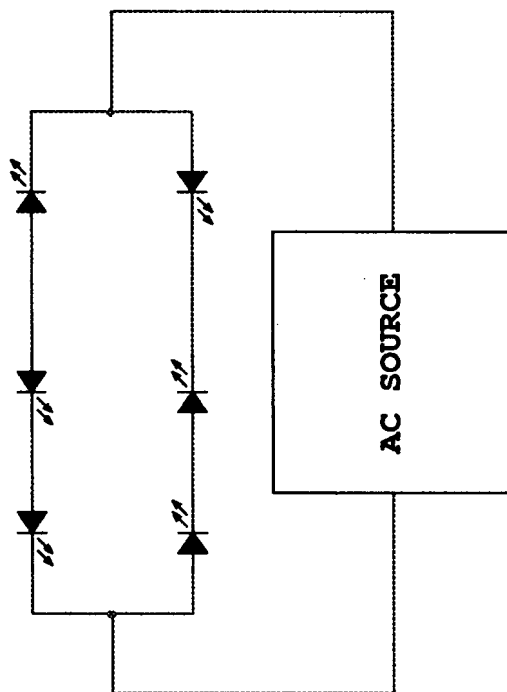
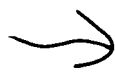




↗

Fig 5

Fig 6



**IN THE
UNITED STATES
PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: MISKIN, et al.

CASE: LYN-071317PV

CONFIRMATION NO.: 9490

SERIAL NO.: 60/997,771

FILING DATE: October 6, 2007

FOR: AC LED ASSEMBLY AND
LIGHTING SYSTEM METHOD
AND APPARATUS

**PETITION TO
CORRECT
INVENTORSHIP UNDER
37 C.F.R. § 1.48(d)**

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

ATTENTION OF:
Art Unit
EXAMINER:
Not yet assigned

Dear Examiner:

This is a petition under 37 C.F.R. § 1.48(d) to correct inventorship of U.S. Provisional Application Serial No. 60/997,771. Applicants submit that inventors, Robert L. Kottritsch was inadvertently omitted from the original Provisional Application Cover Sheet. Applicant submits that the inventorship error occurred without deceptive intention on the part of the omitted inventors. Applicant submits herewith an Application Data Sheet noting the correct inventorship information. The processing fee set forth under § 1.17(q) is submitted herewith.

If any additional charges or fees are required with this communication, such fees may be paid out of our Deposit Account No. 50-0545.

Should anything further be required, a telephone call to the undersigned at (312) 226-1818 is respectfully solicited.

Dated: February 3, 2009

Respectfully Submitted,

/Micheal D. Lake/
Micheal D. Lake, Reg. No. 33727
One of the Attorneys for the Applicant

FACTOR & LAKE, LTD.
1327 W. Washington Blvd., Suite 5G/H
Chicago, Illinois 60607
Tel: (312) 226-1818
Fax: (312) 226-1919

Jody L. Factor	34157
Micheal D. Lake	33727
Joseph M. Kinsella Jr.	45743

Electronic Patent Application Fee Transmittal

Application Number:	60997771			
Filing Date:	06-Oct-2007			
Title of Invention:	AC LED assembly and lighting system method and apparatus			
First Named Inventor/Applicant Name:	Mike Miskin			
Filer:	Michael D. Lake/Jenelle Merritt			
Attorney Docket Number:	LYN-071317PV			
Filed as Small Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Processing Fee for Provis. applications	1807	1	50	50
Total in USD (\$)				50

Electronic Acknowledgement Receipt

EFS ID:	4727903
Application Number:	60997771
International Application Number:	
Confirmation Number:	9490
Title of Invention:	AC LED assembly and lighting system method and apparatus
First Named Inventor/Applicant Name:	Mike Miskin
Correspondence Address:	FACTOR & LAKE, LTD. - Suite 5G/H 1327 W. Washington Blvd. CHICAGO IL 60607 US 312-226-1818 jmelket@factor-lake.com
Filer:	Michael D. Lake/Jenelle Merritt
Filer Authorized By:	Michael D. Lake
Attorney Docket Number:	LYN-071317PV
Receipt Date:	03-FEB-2009
Filing Date:	06-OCT-2007
Time Stamp:	17:06:01
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$50

RAM confirmation Number	2377				
Deposit Account	500545				
Authorized User	LAKE,MICHEAL D.				
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 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	Application Data Sheet	ADS_.pdf	964671 4db92f4267f71d79339eaae06e80221107fe3863	no	4
Warnings:					
Information:					
2	Petition for review by the Office of Petitions.	ReqtoCorrectInventorship.pdf	21658 3fc527cb3801d0d81a7a6f8f00bc7d5c1b185f8b	no	1
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	29959 2152b77b36939b58ebe53849b8f34ce3d76ed4b8	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1016288		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	LYN-071317PV
		Application Number	
Title of Invention	AC LED Assembly and Lighting System Method and Apparatus		
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.			

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1						Remove	
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name		Family Name		Suffix	
Mr.	Michael			Miskin			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service							
City	Sleepy Hollow		State/Province	IL	Country of Residence i	US	
Citizenship under 37 CFR 1.41(b) i			US				
Mailing Address of Applicant:							
Address 1		2 Pinecone Lane					
Address 2							
City	Sleepy Hollow			State/Province	IL		
Postal Code		60118		Country i	US		
Applicant 2						Remove	
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name		Family Name		Suffix	
Mr.	Robert	L.		Kottritsch			
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service							
City	Shefford, Bedfordshire		Country Of Residence i		UK		
Citizenship under 37 CFR 1.41(b) i			UK				
Mailing Address of Applicant:							
Address 1		10 The Hollies					
Address 2							
City	Shefford, Bedfordshire			State/Province			
Postal Code		SG17 5BX		Country i	UK		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						Add	

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	LYN-071317PV
		Application Number	
Title of Invention	AC LED Assembly and Lighting System Method and Apparatus		

☐ An Address is being provided for the correspondence information of this application.

Customer Number	22876		
Email Address	jmeritt@factor-lake.com	Add Email	Remove Email

Application Information:

Title of the Invention	AC LED Assembly and Lighting System Method and Apparatus		
Attorney Docket Number	LYN-071317PV	Small Entity Status Claimed	☒
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)		Suggested Figure for Publication (if any)	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **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.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	22876		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	LYN-071317PV
		Application Number	
Title of Invention	AC LED Assembly and Lighting System Method and Apparatus		

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).			
			Remove
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.			
Assignee ¹			Remove
If the Assignee is an Organization check here. ☒			
Organization Name	LYNK LABS, INC.		
Mailing Address Information:			
Address 1	2511 Technology Drive		
Address 2			
City	Elgin	State/Province	IL
Country ⁱ	US	Postal Code	60123
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the Add button.			Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Micheal D. Lake/			Date (YYYY-MM-DD)	2009-02-03
First Name	Micheal	Last Name	Lake	Registration Number	33727

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.
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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.
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
60/997,771	10/06/2007		130	LYN-071317PV		

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CONFIRMATION NO. 9490 CORRECTED FILING RECEIPT



Date Mailed: 02/12/2009

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

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If Required, Foreign Filing License Granted: 11/19/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 60/997,771**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

AC LED assembly and lighting system method and apparatus

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