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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	05/01/2012	8167654	213202-00595	2154

27160 7590 04/11/2012

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

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):

Joseph ELKU, Tillsonburg, CANADA;
Jim Fraser, St. Thomas, CANADA;
Richard Gratton, London, CANADA;

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)

27160 7590 12/30/2011

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
2900 K STREET, N.W.
NORTH TOWER
SUITE 200
WASHINGTON, D.C. 20007-5118

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.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

TITLE OF INVENTION:
RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1740	$300	$2040	03/30/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, PHUONGCHI T.	2839	439-617000

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 KATTEN MUCHIN
2 ROSENMAN LLP
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: Trojan Technologies
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Canada

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 enclosed:
☑ Issue Fee
☑ Publication Fee (No small entity discount permitted)
☑ Advance Order - # of Copies Two (2)

4b. Payment of Fee(s):
☐ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☑ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-1710 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
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 /Richard P. Bauer/ Date March 30, 2012

Typed or printed name Richard P. Bauer Registration No. 31588

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:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	1501	1	1740	1740
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
Printed copy of patent - no color	8001	2	3	6
		Total in USD ($)		**2046**

Electronic Acknowledgement Receipt

EFS ID:	12435138
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	30-MAR-2012
Filing Date:	04-APR-2008
Time Stamp:	14:25:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$2046
RAM confirmation Number	782
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination 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)	2012-03-30-Signed-Issue-Fee-213202-00595.pdf	106764 0bc402da7b9aab8f54c972506a4a9bfcaae5fa55	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	33975 1d5bc93319c8d9aa1930de79d196fcc03f156142	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	140739		

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
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

27160 7590 12/30/2011

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER
NGUYEN, PHUONGCHI T

ART UNIT	PAPER NUMBER
2839	

DATE MAILED: 12/30/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

TITLE OF INVENTION: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1740	$300	$0	$2040	03/30/2012

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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)

27160 7590 12/30/2011
KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

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.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

TITLE OF INVENTION: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1740	$300	$0	$2040	03/30/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, PHUONGCHI T	2839	439-617000

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 _____
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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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 _____ Date _____

Typed or printed name _____ Registration No. _____

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.

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.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 12/30/2011

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

DATE MAILED: 12/30/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONGCHI NGUYEN	2839	

-- 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 *Pre Appeal Brief on 10/03/11*.

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 *2-25*.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   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. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ 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).

7. ☐ 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. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Tulsidas C Patel/
Supervisory Patent Examiner, Art Unit 2839

EXAMINERS AMENDMENT AND REASONS FOR ALLOWANCE

1. Applicant's Pre Brief Conference request of October 03, 2011 is acknowledged. The Pre-Appeal decision mailed 11/20/11 was inadvertently marks as "Proceed to Board" instead of "Reopen prosecution".

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Rick Bauer on November 14, 2011.

3. The application has been amended as follows:

- Claim 2 (Currently Amended).

A lamp device having a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, ends of all of the electrical connectors of the lamp device being in substantial alignment along a plane orthogonal to the longitudinal axis.

- Claim 25 (Currently Amended).

A lamp device having a longitudinal axis, and comprising:

a first pair of elongate electrical connectors and a second pair of elongate

electrical connectors, the first pair of elongate electrical connectors and the pair of elongate electrical connectors being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the elongate electrical connectors configured to form an oblique angle with respec$_t$ to the longitudinal axis, ends of all of the electrical connectors being in substantial alignment along a plane orthogonal to the longitudinal axis.

4. The following is an examiner's statement of reasons for allowance: none of a lamp device having the first and second elongate electrical connectors being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, and form an oblique angle with respect to the longitudinal axis, ends of all of the electrical connectors of the lamp device being in substantial alignment along the plane orthogonal to the longitudinal axis.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas Patel can be reached on 571-272--2098. 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.

/P. N./

Art Unit 2839

/Tulsidas C Patel/
Supervisory Patent Examiner, Art Unit 2839

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
12098363	ELKU ET AL.
Examiner	**Art Unit**
PHUONG NGUYEN	2839

ORIGINAL		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
439	617	H 0 1 K 1 / 00 (2006.01)	

CROSS REFERENCE(S)

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1	5	17												
1	2	6	18												
2	3	7	19												
12	4	8	20												
13	5	9	21												
14	6	10	22												
15	7	11	23												
16	8	23	24												
17	9	24	25												
18	10														
19	11														
20	12														
21	13														
22	14														
3	15														
4	16														

/PHUONG NGUYEN/ Examiner.Art Unit 2839	11/15/11	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	24	
/TULSIDAS C PATEL/ Supervisory Patent Examiner.Art Unit 2839	11/15/2011	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	2	10 & 11

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

SEARCHED			
Class	Subclass	Date	Examiner
439	617, 611, 682, 683	11/17/08	pn

SEARCH NOTES		
Search Notes	Date	Examiner
see interference search attached	11/15/11	pn

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
	see interference search attached	11/15/11	pn

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

BIB DATA SHEET

CONFIRMATION NO. 2154

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/098,363	04/04/2008	~~315~~ 439	2839	213202-00595

APPLICANTS
Joseph ELKU, Tillsonburg, CANADA;
Jim Fraser, St. Thomas, CANADA;
Richard Gratton, London, CANADA;

**** CONTINUING DATA **************************
This application is a CON of 11/626,756 01/24/2007 PAT 7,390,225
which is a CIP of PCT/CA2006/001040 06/27/2006 yes /pn

**** FOREIGN APPLICATIONS ************************** none /pn/

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****
04/22/2008

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /PHUONG T NGUYEN/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CANADA	14	1	1

ADDRESS

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118
UNITED STATES

TITLE

RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

FILING FEE RECEIVED		
1030	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S63	10	joseph.in. same elku.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/11/14 20:31
S64	46	jim.in. same fraser.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/11/14 20:32
S65	16	richard.in. same gratton.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/11/14 20:35

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S66	1	(lamp adj device same alignment and axis).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2011/11/14 20:38

11/14/2011 8:41:36 PM
G:\chi08082009\eastsumMW2V-new\East Files\12098363.pts.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/17/2008	08/19/2009	12/10/2010	06/07/2011	11/15/2011				
	1	✓	-	-	-	-				
	2		✓	✓	✓	=				
	3		✓	✓	✓	=				
	4		✓	✓	✓	=				
	5		✓	✓	✓	=				
	6		✓	✓	✓	=				
	7		✓	O	O	=				
	8		✓	O	O	=				
	9		✓	✓	✓	=				
	10		✓	O	O	=				
	11		✓	O	O	=				
	12		✓	✓	✓	=				
	13		✓	O	O	=				
	14		✓	O	O	=				
	15		✓	✓	✓	=				
	16		✓	✓	✓	=				
	17		✓	O	O	=				
	18		✓	✓	✓	=				
	19		✓	✓	✓	=				
	20		✓	✓	✓	=				
	21		✓	✓	O	=				
	22		✓	✓	O	=				
	23		✓	✓	O	=				
	24				✓	=				
	25				✓	=				

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
Joseph ELKU et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	October 3, 2011

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

PRE-APPEAL BRIEF REQUEST FOR REVIEW AND
PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to extend the time for response to the June 13, 2011 final Office Action to October 13, 2011. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

Applicants request review of the final rejection in the above-identified application. No amendments are being filed with this request. This request is being filed with a Notice of Appeal.

The review is requested for the reasons stated on the attached **Remarks** on pages 3-7.

Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-25 are pending in the application. Claims 2, 24, and 25 are independent.

Applicants thank the Examiner for the indication of allowable subject matter in Claims 7-8, 10-11, 13-14, 18, and 21-23.

Claims 2-6, 9, 12, 15-17, 19-20, and 24-25 were rejected as being obvious over Ciancanelli, Titchner, and Sabo, for the reasons noted at pages 2-8 of the Office Action. Applicants respectfully traverse all art rejections. The Examiner has simply failed to give any effect to recited claim language "all" and "none." It is hornbook law that: "All words in a claim must be considered in judging the patentability of that claim against the prior art." *In re Wilson*, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970). MPEP § 2143.03. This the Examiner has failed to do.

As depicted in the embodiment of Fig. 11, independent Claim 2 recites a novel combination of structure and/or function whereby a lamp device (having a longitudinal axis) includes a first elongate electrical connector and a second elongate electrical connector. The first elongate electrical connector (e.g., 306 in Fig. 11) and the second elongate electrical connector (e.g., 308 in Fig. 11) are aligned in a spaced relationship with respect to a line (e.g., E in Fig. 11) orthogonal to the longitudinal axis (e.g., A in Fig. 11). Each of the first elongate electrical connector and the second elongate connector is configured to form an oblique angle with respect to the longitudinal axis.

Notably, Claim 2 explicitly recites that the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line (e.g., E in Fig. 11) orthogonal to the longitudinal axis.

None of Ciancanelli, Titchner, and Sabo discloses or suggests such structure. In particular, none discloses that the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line orthogonal to the longitudinal axis. In Ciancanelli, only two of the four electrical connectors of the lamp device are in substantial alignment along the line orthogonal to the longitudinal axis, thus failing to meet the limitation of the ***ends of all of the electrical connectors of the lamp device***.

The above claim limitation will require that any infringing device (and thus any invalidating prior art) must have ***all*** connector ends aligned along the same line – i.e., not just the recited first elongate electrical connector and second elongate electrical connector. For example, none of the Ciancanelli lamps could be accused of infringing such a claim since the Ciancanelli connectors align along two separate lines, not one. By the same token then, the Ciancanelli lamps can not invalidate Claim 2 since the ends of all the electrical connectors are not aligned along one line.

In the Office Action, the Examiner applies the "all" limitation to only two of Ciancanelli's connectors, 48 and 50, ignoring connectors 52 and 54. The Examiner is thus ignoring the plain meaning of "all." Already of record in this case is the World English Dictionary definition of "all" as: "the whole quantity or amount of; totality of; every one of a class:" see http://dictionary.reference.com/browse/all. Accordingly, the claim terms "the ends of ***all*** of the electrical connectors of the lamp device are in substantial alignment

along the line orthogonal to the longitudinal axis" are properly construed as requiring that the end of every connector in the lamp device be aligned along the same line. As properly construed, Ciancanelli can not invalidate Claim 2 since it fails to disclose or suggest at least this feature.

In the Office Action at page 8, the Examiner opines that she is free to ignore the plain meaning of the "all" claim limitation since Claim 2 only recites "first and second" connectors and that, "all" "*must be*" limited to two. The easy answer to this is that "all" means "all." Moreover (and has already been pointed out), dependent Claim 20 recites further "third and fourth" connectors, and the "all" of base Claim 2 indisputably applies to Claim 20 as well. Thus, "all" is not limited to only two. At page 8, the Examiner erroneously states that "Claim 20 is [sic] also reads on Ciancanelli." This is incorrect; ***all*** of Claim 20's four connectors "are in substantial alignment along the line orthogonal to the longitudinal axis"; ***all*** of Ciancanelli's four connectors are not. Again, if Claim 20 can not be applied against Ciancanelli for infringement, Ciancanelli can not be applied against Claim 20 for invalidity.

Independent Claim 24 recites, *inter alia*, "***none*** of the elongate electrical connectors of the lamp device being staggered with respect to the longitudinal axis." By similar reasoning as discussed above, Ciancanelli fails to disclose or suggest a lamp device in which ***none*** of the elongate electrical connectors of the lamp device are staggered with respect to the longitudinal axis. The ***only*** embodiments disclosed or suggested in Ciancanelli have staggered connectors. The Examiner is not free to carve out portions of the prior art and apply them against the claims while ignoring the clear teachings of the

prior art that the connectors are staggered. Once again, as Claim 24 could not be successfully asserted against Ciancanelli in an infringement action, it can not be applied against that claim for invalidity. Thus, Claim 24 is also patentable over the cited art.

Independent Claim 25 recites that the "ends of all of the [four recited] electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis." At the prior interview, it appeared that the Examiner was of the opinion that such a claim would be allowable over Ciancanelli. However, Claim 25 is now rejected. The Examiner asserts that Ciancanelli discloses the claimed first pair of electrical connectors at (48, 50) and the claimed second pair of electrical connectors at (52, 54). However, when it comes to the claim limitation "ends of ***all*** of the electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis", *the Examiner only points to the first pair of electrical connectors*: [Ciancanelli disclose] "ends (E1, E2) of ***all*** of the electrical connectors (48, 50) being in substantial alignment along line (A1) orthogonal to the longitudinal axis (A2)." **How does the Examiner now contrive that "all" does NOT apply to two of the four recited connectors?** With respect to Claim 2, the Examiner stated that "all" only applied to two connectors because only two were claimed. Now that four are claimed, she simply ignores two of them! This shows that not only is the Examiner taking an unreasonable position with respect to Claim 25, but that her reasoning with respect to Claims 2 and 24 is faulty, i.e., an Examiner is not free to ignore features of the prior art and the plain meaning of claim terms to support a prior art rejection. Every claim limitation must be considered and applied.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W.
North Tower
Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

PTO/SB/31 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

NOTICE OF APPEAL FROM THE EXAMINER TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

Docket Number (Optional): 213202-00595

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]
on _____

Signature _____

Typed or printed name _____

In re Application of: Joseph Elku, et al.

Application Number	Filed
12/098,363	April 4, 2008

For: Radiation Lamp and Radiation Source Module Incorporating Same

Art Unit	Examiner
2839	P.T. Nguyen

Applicant hereby **appeals** to the Board of Patent Appeals and Interferences from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) $ 620.00

☐ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by half, and the resulting fee is: $ _____

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 50-1710 .

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/22) is enclosed.

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.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest.
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96)

☑ attorney or agent of record.
Registration number 31,588.

☐ attorney or agent acting under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34. _____

/Richard P. Bauer/
Signature

Richard P. Bauer
Typed or printed name

202-625-3507
Telephone number

October 3, 2011
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.
Submit multiple forms if more than one signature is required, see below*.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 41.31. 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, 1.14 and 41.6. 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.

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.

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Notice of appeal	1401	1	620	620
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 1 month with $0 paid	1251	1	150	150
Miscellaneous:				
			Total in USD ($)	**770**

Electronic Acknowledgement Receipt

EFS ID:	11100080
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	03-OCT-2011
Filing Date:	04-APR-2008
Time Stamp:	15:56:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$770
RAM confirmation Number	2237
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Pre-Brief Conference request	2011-10-03-Pre-Appeal-Brief-Requet-For-Review-EOT-213202-00595.pdf	227939 374639f56d4c4f9a300520b23431e5d1e5118788	no	7
Warnings:					
Information:					
2	Notice of Appeal Filed	2011-10-03-Signed-Notice-Of-Appeal-213202-00595.pdf	244914 eb2b3edbb0d828136095d998a7a3a0e625505f6c	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32432 4bd046fa1b2c52fbaf2801f7b7eed8e1cc43ae64	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	505285		

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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 06/13/2011

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

MAIL DATE	DELIVERY MODE
06/13/2011	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONGCHI NGUYEN	2839	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *05/26/11*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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

4)☒ Claim(s) *2-25* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *2-6,9,12,15-17,19,20,24 and 25* is/are rejected.

7)☒ Claim(s) *7,8,10,11,13,14,18 and 21-23* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *04 April 2008* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5/26/11*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Applicant's amendment of April 18, 2011 is acknowledged. It is noted that claim 1 is previously canceled. Claim 2 and 16-20 are amended. New claims 24-25 are added.

Claim Rejections - 35 USC § 103

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

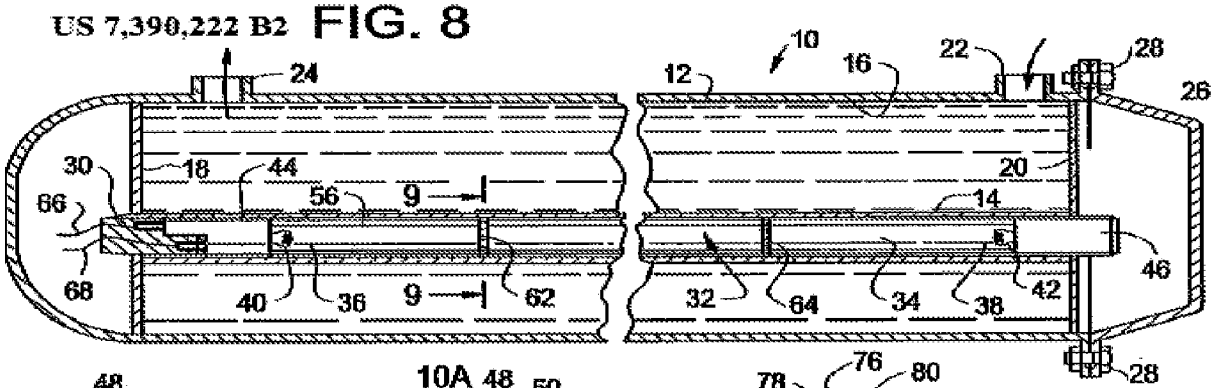
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time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

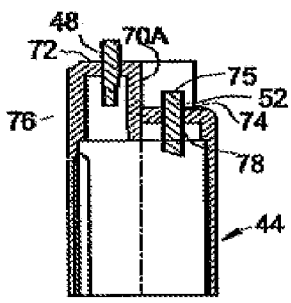
3. Claims 2-6, 9, 12, 15-17 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clancanelli et al (US7390222) in view of Titchener (US7033203).

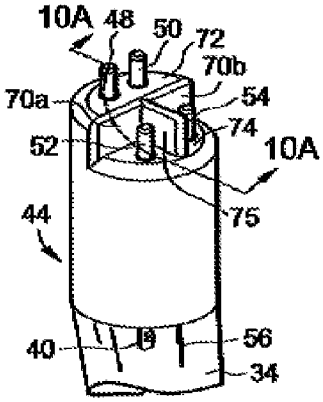
Regarding to claim 2, Clancanelli et al disclose (figs. 8, 10A, 10 and 15) a lamp device (32) having a longitudinal axis, and comprising a first elongate electrical connector (48) and a second elongate electrical connector (50), the first elongate electrical connector (48) and the second elongate electrical connector (50) being aligned in a spaced relationship with respect to a line (A1) orthogonal to the longitudinal axis (A2), each of the first elongate electrical connector (48) and the second elongate connector (50) configured to form a connection with respect to the longitudinal axis (A2); ends (E1, E2) of all of the (first 48 and second 50 elongate) electrical connectors of the lamp device (32) being in substantial alignment along the line (A1) orthogonal to the longitudinal axis (A2).

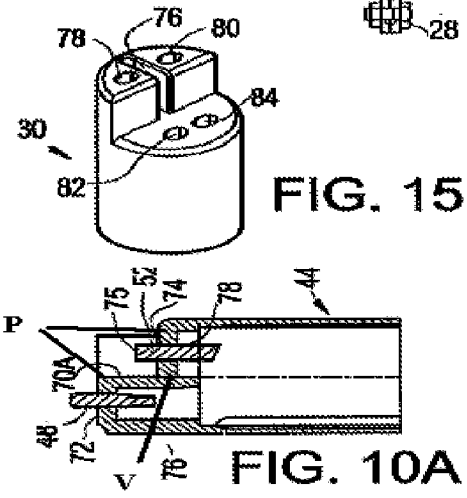
Clancanelli disclose the invention generally all as claimed, but does not show the first connector and the second connector forming an oblique angle with respect to the longitudinal axis. However, Titchener teaches the first connector (5a) and the second connector (5c) forming an oblique angle with respect to the longitudinal axis (A2c)(figs 1 and 3a). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connection between the first connector and the second connector of Clancanelli et al by forming an oblique angle respect to the longitudinal axis as taught by Titchener or Sato to prevent disconnection between the two connectors and the mating

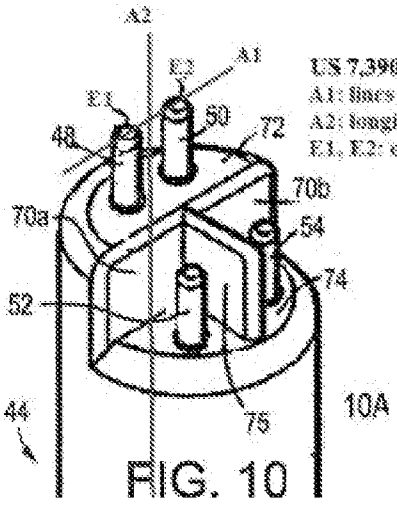
connector when the unintentional forces applied on the two connector bodies/mating connector or two cables (abstract, lines 1-4).

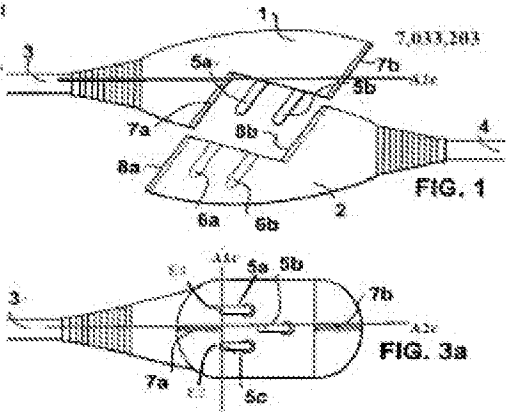












Regarding to claim 3, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (48) and the second elongate electrical connector (50) are substantially parallel with respect to one another.

Regarding to claim 4, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (48) and the second elongate connector (50) are disposed in a base portion (44) at one end of the lamp device (32).

Regarding to claim 5, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises an undulating (wave) shape (fig. 10A).

Regarding to claim 6, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at least one peak (P) and at least one valley (V/70a/70b).

Regarding to claim 9, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises a single peak (P) and a single valley (V).

Regarding to claim 12, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at a plurality of peaks (P, P) and a plurality of valleys (70a, 70b).

Regarding to claim 15, Clancanelli et al disclose the lamp device further comprising an elongate radiation emitting cavity comprising the longitudinal axis (col. 6, lines 35-42).

Regarding to claim 16, Clancanelli et al disclose the lamp device wherein the second elongate electrical connector (50) comprises a male portion of a male-female connection system (fig. 10A).

Regarding to claim 17, Clancanelli et al disclose the lamp device wherein both of the first elongate electrical connector (48) and the second elongate electrical connector (50) comprises a male portion (of 48+50) of a male-female connection system (figs. 11, 12 or 24).

Regarding to claim 20, Clancanelli et al disclose the lamp device comprising a pair of first elongate electrical connectors (52, 54) and a pair of second elongate electrical connectors (48, 50).

Regarding to claim 20, Clancanelli et al disclose a pair of first elongate electrical connectors (48, 52) and a pair of second elongate electrical connectors (50, 54).

Regarding to claim 24, Clancanelli et al disclose (figs. 8, 10A, 10 and 15) a lamp device (32) having a longitudinal axis, and comprising a first elongate electrical connector (48) and a second elongate electrical connector (50), the first elongate electrical connector (48) and the second elongate electrical connector (50) being aligned in a spaced relationship with respect to a line (A1) orthogonal to the longitudinal axis (A2), each of the first elongate electrical connector (48) and the second elongate connector (50) configured to form a connection with respect to the longitudinal axis (A2); none of the elongate electrical connectors (48, 50) of the lamp device being staggered (arranged in alternating or overlapped positions) with respect to the longitudinal axis (A2).

Clancanelli disclose the invention generally all as claimed, but does not show the first connector and the second connector forming an oblique angle with respect to the longitudinal axis. However, Titchener teaches the first connector (5a) and the second connector (5c) forming an oblique angle with respect to the longitudinal axis (A2c) (figs 1 and 3a). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connection between the first connector and the second connector of Clancanelli et al by forming an oblique angle respect to the longitudinal axis as taught by Titchener or Sato to prevent disconnection between the two connectors and the mating connector when the unintentional forces applied on the two connector bodies/mating connector or two cables (abstract, lines 1-4).

Regarding to claim 25, Clancanelli et al disclose (figs. 8, 10A, 10 and 15) a lamp device (32) having a longitudinal axis (A2), and comprising a first pair of elongate electrical connectors (48, 50) and a second pair of elongate electrical connectors (52, 54), the first pair of elongate electrical connectors (48,

50) and the pair of elongate electrical connectors (48, 50) being aligned in a spaced relationship with respect to a line orthogonal (A1) to the longitudinal axis (A2), each of the elongate electrical connectors (48, 50) configured to form a connection with respect to the longitudinal axis (A2); ends (E1, E2)) of all of the electrical connectors (48, 50) being in substantial alignment along the line (A1) orthogonal to the longitudinal axis (A2).

Clancanelli disclose the invention generally all as claimed, but does not show the first connector and the second connector forming an oblique angle with respect to the longitudinal axis. However, Titchener teaches the first connector (5a) and the second connector (5c) forming an oblique angle with respect to the longitudinal axis (A2c)(figs 1 and 3a). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connection between the first connector and the second connector of Clancanelli et al by forming an oblique angle respect to the longitudinal axis as taught by Titchener or Sato to prevent disconnection between the two connectors and the mating connector when the unintentional forces applied on the two connector bodies/mating connector or two cables (abstract, lines 1-4).

World English Dictionary
stagger (ˈ stæɡə) -vb
1. (*usually intr*) to walk or cause to walk unsteadily as if about to fall
2. (*tr*) to astound or overwhelm, as with shock: *I am staggered by his ruthlessness*
3. (*tr*) to place or arrange in alternating or overlapping positions or time periods to prevent confusion or congestion: *a staggered junction* ; *to stagger holidays*

Allowable Subject Matter

4. Claims 7-8, 10,-11, 13-14, 18 and 21-23 are 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.

5. The following is a statement of reasons for the indication of allowable subject matter:

Regarding to claims 7-8, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the at least one peak and both the at least one valley with all limitation as claimed above.

Regarding to claim 10, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the single peak or the single valley with all limitation as claimed above.

Regarding to claim 11, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to both of the single peak and the single valley with all limitation as claimed above.

Regarding to claims 13-14, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the plurality of peaks or the plurality of valleys with all limitation as claimed above.

Regarding to claim 18, the prior art fail to teaches or suggests the lamp device wherein the second elongate electrical connector comprises a male portion of a male-female connection system and the first elongate electrical connector comprises a female portion of a male-female connection system with all limitation as claimed above.

Regarding to claims 21-23, the prior art fail to teaches or suggests the lamp device wherein the pair of first elongate electrical connectors and/or the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis arranged with all of limitation as claimed above.

Response to Arguments

6. Applicant argues that …"the claimed term: "ends of *all* of the electrical connectors of the lamp device." This claim limitation will require that any infringing device (and thus any invalidating prior art) must have *all* connector ends aligned along the same line - i.e., not just the recited first elongate electrical

connector and second elongate electrical connector…., the Ciancanelli lamps can not invalidate Claim 2 since the ends of all the electrical connectors are not aligned along one line. … that "all" could not be limited to only two connectors (i) because Claim 2 is an open-ended "comprising" claim, and (ii) because the "all" limitation applies to the dependent claims as well, for example, Claim 20 which recites first and second *pairs* of electrical connectors. " is not deemed persuasive, because

(i) Independent claim 2 recites only a first elongate electrical connector and a second elongate electrical connector; thus, the term "all of the electrical connectors" *must be referred* to the first elongate electrical connector and a second elongate electrical connector, *which are recited in the claim.*

(ii) the dependent claim 20, defined in claim 2, simply recites a pairs of first elongate electrical connectors and a pair of second elongate electrical connectors. There is no relationship between the second connector of the first pair and the second connector of the second pairs with another components recited in claim 2 Claim 20 is also reads on Ciancanelli.

Conclusion

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

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG NGUYEN whose telephone number is (571)272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

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.

/P. N./
Art Unit 2839

/T C Patel/
Supervisory Patent Examiner, Art Unit 2839

Receipt date: 05/26/2011

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	12098363
Filing Date	2008-04-04
First Named Inventor	Joseph Elku
Art Unit	2839
Examiner Name	Phoungchi T. Nguyen
Attorney Docket Number	213202-00595

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/P.N./	1	5166527	A	1992-11-24	Solymar	

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/P.N./	1	0 281 079	EP	A2	1988-09-17	Toshiba		☐
/P.N./	2	62-115625	JP	A	1987-05-27	Yoshimi		☐
/P.N./	3	2004/108604	WO	A1	2004-12-16	Pierre Girodet et al.		☐

Receipt date: 05/26/2011	Application Number	12098363 12098363 - GAU: 2839
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	2008-04-04
(Not for submission under 37 CFR 1.99)	First Named Inventor	Joseph Elku
page 2 of 2	Art Unit	2839
	Examiner Name	Phoungchi T. Nguyen
	Attorney Docket Number	213202-00595

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/P.N./	1	Examiner's first report on Australian Patent Application No. 2006261548, with a mailing date of October 29, 2010	☐
/P.N./	2	Office Action for Canadian Patent Application No. 2,613,147, with a mailing date of March 11, 2010.	☐
/P.N./	3	The Second Office Action for People's Republic of China Patent Application No. 200680022615.8, with a mailing date of June 21, 2010	☐
/P.N./	4	Office Action for Russian Patent Application No. 2008102161/07(002365)	☐

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EXAMINER SIGNATURE

Examiner Signature	/Phuongchi Nguyen/	Date Considered	06/06/2011

*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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/17/2008	08/19/2009	12/10/2010	06/07/2011					
	1	✓	-	-	-					
	2		✓	✓	✓					
	3		✓	✓	✓					
	4		✓	✓	✓					
	5		✓	✓	✓					
	6		✓	✓	✓					
	7		✓	O	O					
	8		✓	O	O					
	9		✓	✓	✓					
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	20		✓	✓	✓					
	21		✓	✓	O					
	22		✓	✓	O					
	23		✓	✓	O					
	24				✓					
	25				✓					

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	0 281 079	EP	A2	1988-09-17	Toshiba		☐
	2	62-115625	JP	A	1987-05-27	Yoshimi		☐
	3	2004/108604	WO	A1	2004-12-16	Pierre Girodet et al.		☐

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	Examiner Name	Phoungchi T. Nguyen
	Attorney Docket Number	213202-00595

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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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Examiner's first report on Australian Patent Application No. 2006261548, with a mailing date of October 29, 2010	☐
	2	Office Action for Canadian Patent Application No. 2,613,147, with a mailing date of March 11, 2010.	☐
	3	The Second Office Action for People's Republic of China Patent Application No. 200680022615.8, with a mailing date of June 21, 2010	☐
	4	Office Action for Russian Patent Application No. 2008102161/07(002365)	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	12098363
	Filing Date	2008-04-04
	First Named Inventor	Joseph Elku
	Art Unit	2839
	Examiner Name	Phoungchi T. Nguyen
	Attorney Docket Number	213202-00595

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

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☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Richard P. Bauer/	Date (YYYY-MM-DD)	2011-05-26
Name/Print	Richard P. Bauer	Registration Number	31588

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Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Allen Rose
Attorney Docket Number:	213202-00595

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Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
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Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
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Submission- Information Disclosure Stmt	1806	1	180	180
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Electronic Acknowledgement Receipt

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International Application Number:	
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First Named Inventor/Applicant Name:	Joseph ELKU
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	Australian-Office-Action.pdf	91610 b5d9c6e09d32bc8df62e2335129f32a423060b5c	no	2
Warnings:					
Information:					
2	NPL Documents	Canadian-Office-Action.pdf	376311 69f8f8286e09a7d6d8da8afff821d6191b5fd54c	no	5
Warnings:					
Information:					
3	NPL Documents	Chinese-Office-Action.pdf	1117322 7892a570c8005a198fa820ff4a437c62d16161f2	no	14
Warnings:					
Information:					
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Warnings:					
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Warnings:					
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Warnings:					
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9	Fee Worksheet (PTO-875)	fee-info.pdf	30510 7be1ee49f221d2c5d6d9ab5084db33666ded55fe	no	2

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(71) Applicant: **KABUSHIKI KAISHA TOSHIBA**
72, Horikawa-cho Saiwai-ku
Kawasaki-shi Kanagawa-ken 210(JP)

(72) Inventor: **Takagi, Masami c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome
Minato-ku Tokyo 105(JP)
Inventor: **Tsunekawa, Shinichi c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome
Minato-ku Tokyo 105(JP)
Inventor: **Ohkubo, Kenji c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome
Minato-ku Tokyo 105(JP)

(74) Representative: **Henkel, Feiler, Hänzel & Partner**
Möhlstrasse 37
D-8000 München 80(DE)

(54) Low pressure discharge lamp.

(57) A low pressure discharge lamp includes a bulb (10) with a pair of closed ends, and a pair of bases (12) attached to the ends of the bulb, respectively. Each base has a cylindrical base body (24) into which the end of bulb is inserted, and a pair of receiving terminals (26) electrically connected to an electrode (22) in the bulb and protruding from the base body in a direction perpendicular to the axis of the bulb. Each terminal has a pair of mutually parallel flat faces and is secured to the base body such that these flat faces are located on planes perpendicular to the axis of the bulb, and a part of at least one flat face is in contact with a bottom wall (24a) of the base body.

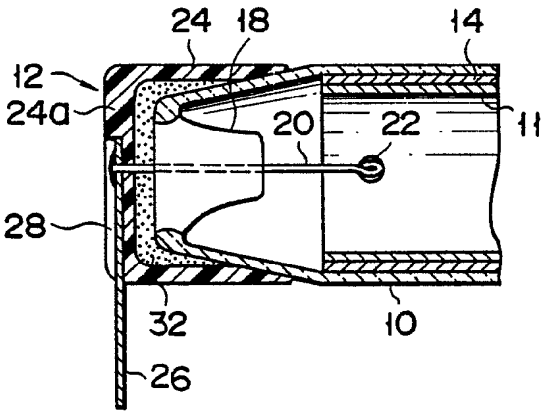


FIG. 3

EP 0 281 079 A2

Low pressure discharge lamp

This invention relates to low pressure discharge lamps, including fluorescent lamps, cold cathode discharge lamps and glow lamps.

Fluorescent lamps, cold cathode discharge lamps and glow lamps of straight tubular type are used as the light sources for various types of OA (office automation) equipment as well as for general lighting purposes and as the backlight light source for liquid crystal display units. Recently, there have been demands for miniaturization or increased effective luminescent length of these light sources. For the lamps used as the light source for OA equipment, due to limitations in space available for accommodation of lamp, it is desired to reduce the size of the lamp or increase the effective luminescent length when the length of the lamp is not changed.

Conventionally, in low pressure discharge lamps of this type, that is, straight fluorescent lamps for example, the bi-pin type bases, which each have a couple of terminal pins extending in the axial direction of the bulb, are used as the bases attached to the ends of the bulb. Since the bases each have a couple of terminal pins protruding in the axial direction of the bulb, the entire length including the terminal pins is long. In addition, lamp sockets need to be provided for the axial ends of the lamp in a manner that the lamp sockets are placed against the bases. As a result, the whole lighting equipment including the lamp sockets has to be large.

Japanese Utility Model Publication No. 38-443 discloses a lamp using bases each having flat-plate receiving terminals such as are used for attachment plugs. This base has substantially cylindrical base body whose one end is closed, and the terminals are secured to the base body in a manner that they extend in a direction perpendicularly to the axis of the lamp. Each end portion of the bulb is inserted in the base body from the open side thereof.

With a lamp constructed as described above, the terminals do not protrude in the axial direction of the lamp from the ends thereof and therefore, the entire length of a lamp can be shortened. Moreover, the lamp sockets into which the terminals are inserted can be installed on a lateral side of the end portion of the lamp. Therefore, there is no need to provide a large space in the axial direction of the lamp and the whole lighting equipment can be reduced in size.

The demands for further reductions in size and required space for installation of lamps have been mounting in recent years. However, the lamp disclosed in the above-mentioned Japanese Utility Model Publication cannot meet these demands. The reason is as follows.

To shorten the axial length of a lamp, the end parts of the bulb need to be inserted deep into the base bodies so that the end surfaces of the bulb come as close to the bottoms of the base bodies as possible. In the above-mentioned Japanese Utility Model Publication, however, a couple of terminals are mounted to the base bodies so that the flat faces of the terminals face each other and are located in planes which are in parallel with the axis of the bulb. Therefore, it is necessary to provide a space corresponding at least to the width of the terminal between the end surfaces of the bulb and the bottoms of the base bodies. As a result, the base bodies protrude by the amount of the terminal width in the axial direction of the bulb from the ends of the bulb.

Meanwhile, a lamp having a couple of flat-plate terminals is disclosed in Japanese Utility Model Publication No. 60-130440. The terminals are mounted in a manner that their flat faces are located in planes existing at right angles with the axis of the lamp and are arranged in the axial direction of the bulb with an insulation member applied between them.

Even in the lamp so constructed, since the terminals and the insulation member are arranged in the axial direction, the base body protrudes from the end of the bulb at least by the amount corresponding to the sum of their thicknesses. These terminals, being secured to the the peripheral wall of the base body, are low in mechanical strength against external forces which act in the axial direction of the bulb. Hence, there is a possibility that the terminals break when they are connected to the sockets.

The present invention has been made in consideration of the above situation and has as its object to provide a low pressure discharge lamp which permits further reduction in lamp size, can have an increased effective luminescent length when the lamp length is the same as before and has sufficient mechanical strength.

In order to achieve the above object, according to this invention, a pair of bases attached to the ends of a bulb each have a substantially cylindrical base body with a bottom wall, in which one end portion of the bulb is inserted, and a flat-plate like terminal secured in the base body and electrically connected to the electrode of the bulb. The terminal has a pair of mutually parallel flat faces and is secured to the base body in such a manner that these flat faces are located on planes perpendicular to the axis of the bulb and a part of at least one

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flat face is in contact with the bottom wall of the base body. The terminal protrudes from the base body in a direction perpendicular to the axis of the bulb.

This invention can be more fully understood from the following detailed description when taken in conjunction with the accompanying drawings, in which:

Figs. 1 through 6 show a fluorescent lamp according to an embodiment of this invention; in which

Fig. 1 is a perspective view of the whole lamp,

Fig. 2 is a sectional view taken along line II-II of Fig. 1,

Fig. 3 is a sectional view taken along line III-III of Fig. 1,

Fig. 4A is a sectional view taken along line IV-IV of Fig. 1,

Fig. 4B is an enlarged sectional view showing a part of Fig. 4A,

Fig. 5 is a front view of a base, and

Fig. 6 is a perspective view showing the base of Fig. 5 and a socket;

Figs. 7 through 9 are front views of modifications of the base; and

Fig. 10 is a perspective view showing a fluorescent lamp according to another embodiment of this invention.

Preferred embodiments of this invention will now be described with reference to the accompanying drawings.

Referring first to Fig. 1, there is shown a straight fluorescent lamp according to an embodiment of this invention. This fluorescent lamp includes straight type bulb, that is, cylindrical bulb 10 and a pair of bases 12 attached to both ends of the bulb. As is shown in Figs. 2 and 3, fluophor layer 11 is formed on the inner periphery of bulb 10, and reflective layer 14 is formed between the inner periphery of the bulb and fluophor layer 11 except for a specified area existing in the peripheral direction. The area where reflective layer 14 is not formed constitutes light-emitting section 16 which allows light to penetrate. This section extends in the axial direction of bulb 10 over the substantially full length of the bulb. Therefore, the fluorescent lamp is a so-called aperture type lamp which emits light only from a limited area in the peripheral direction of the bulb.

Referring to Figs. 3 and 4A, both ends of bulb 10 is sealed with flare stem 18. A pair of lead wires 20 are passed airtightly through each piece of flare stem 18 and secured thereto. Filament electrode 22 is connected between the end portions of lead wires 20 which projects in bulb 10. Specified quantities of mercury and rare gas are contained in bulb 10.

As is shown in Figs. 2 through 6, base 12 comprises cylindrical base body 24 whose one end is closed bottom wall 24a and a pair of receiving terminals 26 fixed to the base body. Base 12 is glued to the bulb, and the end portion of bulb 10 is inserted into base body 24. Base body 24 is coaxially positioned to bulb 10, and bottom wall 24a is at a right angle to the axis of the bulb. The portion of the end part of bulb 10 that is covered with base body 24 has a smaller outer diameter than the other portion of the bulb. Thus, the outer diameter of base body 24 is almost equal to that of the middle portion of bulb 10, and there is no stepped portion formed between the bulb and bases 12.

Formed on the outer face of bottom wall 24a are a pair of connection grooves 28 mutually extending, parallel to each other. One end of each groove 28 is open at the periphery of the bottom wall. As is clear from Fig. 4B, the portion of groove 28 which lies at the bottom side of groove 28 constitutes wide-width portion 28a, which processes a width wider than the width of that portion of the groove which is open to the outer face of the bottom wall. Formed at the bottom of each groove 28 is through-hole 30 into which lead wire 20 is inserted. Through-hole 30 extends in the axial direction of bulb 10. In bottom wall 24a are formed a pair of working holes 34 through which adhesive 32 is supplied into base body 24. Working holes 34 extend in the axial direction of bulb 10.

A pair of receiving terminals 26 are fitted into connection grooves 28 and fastened to base body 24. Receiving terminals 26 are narrow, substantially rectangular flat plates. The upper half of each receiving terminal 26 has the same width as wide-width portion 28a of connection groove 28 and is fitted into this wide-width portion. The lower halves of receiving terminals 26 protrude from base body 24 in a direction perpendicular to the axis of bulb 10. Therefore, each receiving terminal 26 is fastened on the bottom wall of base body 24, with one flat face and both lateral sides of the upper half of terminal 26 being in contact with the bottom wall. Thus, a pair of receiving terminals are arranged to be parallel to one another, and the flat faces of the terminals are also parallel to bottom wall 24a of base body 24, that is, positioned on a plane which is perpendicular to the axis of bulb 10. Receiving terminals 26 protrude in a specified direction relative to light-emitting section 16 of bulb 10.

A plurality of stopper teeth 36 are formed on either side of the upper half of receiving terminal 26. These stopper teeth 36 prevent receiving terminals 26 from slipping out of connection grooves 28. Each terminal 26 has through hole 38 formed therein. Under the condition that the terminals are fitted in connection grooves 28, through holes 38

are aligned with throughholes 30 and are placed against the end parts of lead wires 20 which protrude from the end of bulb 10. Each end part of lead wires 20 is inserted into corresponding through-holes 30 and 38 and soldered to terminal 26. Thus, a pair of terminals 26 are electrically connected to filament electrode 22 through lead wires 20.

A couple of recesses 40 are formed at the peripheral wall of base body 24.

Base 12 thus constructed is fixed to each end part of bulb 10 by the following processes. First, the end part of bulb 10 is inserted deep into base body 24 from the open end thereof, that is, until the peripheral edge of base body 24 contacts the peripheral surface of bulb 10. Hence, base body 24 is coaxially fitted to bulb 10 over the end part of bulb 10. In the inserting process, each end portion of lead wires 20 projecting from the end of bulb 10, is inserted into the corresponding through holes 30 and 38 which are formed in bottom wall 24a and terminal 26, respectively. The extended ends of lead wires 20 are soldered to the corresponding terminals 26 from the outside of base body 24. Thus, base 12 is temporarily fixed to the end of bulb 10. Then, adhesive 32 is supplied between the end of bulb 10 and the inner surface of base body 24 from working holes 34. As a result, base 12 is firmly secured to bulb 10 by adhesive 32.

When a fluorescent lamp having the above construction is used, terminals 26 protruding from each base body 24, are fitted into connection holes 42 of a socket 44 shown in Fig. 6. Base body 24 is elastically clamped between a pair of holding walls 46 of the socket. Thus, the lamp is connected to a power supply. Meanwhile, a mechanical connection between the fluorescent lamp and the sockets can be effected by the connection of terminals 26 to the sockets. In addition, projections 48, formed on the inner surfaces of holding walls 46, are fitted in recesses 40 which is formed in base body 24. Thus, the fluorescent lamp can be mechanically supported by sockets 44.

A fluorescent lamp so constructed has the following advantages. A pair of receiving terminals 26 of each base 12 protrude from base body 24 in a direction perpendicular to the axis of bulb 10 and are arranged parallel to one another in such a manner that the flat faces of the terminals are positioned on a plane located at a right angle to the axis of the bulb. Therefore, the space required along the axis of bulb 10 for installing receiving terminals 26 need only be an amount which corresponds to the thickness of the terminals. Each receiving terminal 26 is installed with one-side of their flat face being in contact with bottom wall 24a of base body 24. Therefore, the end parts of bulb 10 can be deeply inserted into base body 24, that is, close to bottom wall 24a and, as a result, the length of a fluorescent lamp can be reduced. When the fluorescent lamp has the same length as a fluorescent lamp of the prior art, the length of the bulb itself, that is, the effective luminescent length can be increased.

Each receiving terminal 26 is secured to base body 24 with its flat face being in contact with bottom wall 24a of the base body. In the above embodiment of this invention, each terminal 26 is fitted into connection groove 28 formed in bottom wall 24a and secured with a part of one flat face, and both lateral sides of the terminal contact the bottom wall. Therefore, if terminals 26 are secured to base body 24 with sufficient mechanical strength, there is no possibility of the terminals becoming loose or breaking when they are subjected to external forces. Terminals 26 can be secured in base body 24 by simply inserting the terminals into connection grooves 28 of bottom wall 24a, thereby making the mounting of terminals 26 very easy.

Through holes 30 and 38 are formed respectively in bottom wall 24a of base body 24 and in terminal 26, through which the extended end part of each lead wire 20 is inserted, and mutually extend coaxially in the axial direction of bulb 10. Further, through holes 30 and 38 are located against the extended end part of lead wire 20. Therefore, the extended end part of each lead wire 20 can be easily inserted into through-holes 30 and 38, and can be soldered to receiving terminal 26 on the outside of base body 24. Hence, lead wires 20 and receiving terminals 26 can be easily connected. Base 12 is attached to bulb 10 by soldering lead wires 20 to terminals 26 and by applying adhesive 32 between base body 24 and the end of bulb 10, with the resulting base being firmly secured to the bulb.

Receiving terminals 26 protrude in a direction which intersects the axis of bulb 10. Therefore, when the terminals are connected to the socket, the orientation of the bulb is not changed. Therefore, when a fluorescent lamp is installed, the direction in which the light radiates can be easily aligned with a desired direction, by presetting the protruding direction of terminals 26 in relation to light-emitting section 16 of bulb 10.

This invention is not limited to the above described embodiment but may be embodied in various forms within the scope of the invention.

For example, the shape of base body 24 is not limited to a cylindrical form but may be of a rectangular form or a semi-circular cylindrical form as is shown in Figs. 7 and 8.

This invention is not limited to fluorescent lamps and can be applied to cold-cathode discharge lamps as well as glow lamps. Among cold-

cathode discharge lamps and glow lamps, a well-known type is that wherein only one lead wire is connected to an electrode. For lamps of this type, it is only necessary to install a piece of receiving terminal 26 for each base body 24, as is shown in Fig. 9.

In Figs. 7 through 9, the same numerals used in the above embodiment designate the same members in the other embodiments and, hence, their detailed description is omitted here.

A bulb used in carrying out this invention is not limited to an aperture type bulb which has a light-emitting section as described above, but may be an ordinary type bulb. Further, as is shown in Fig. 10, a bulb is not limited to a straight type but may be a U-shaped type.

The stems in the bulb are not limited to flare type stems but may be button type stems. A button type stem is shaped like a flat plate and does not protrude much into the inside of the bulb from the end thereof. Thus, it is possible to shorten the distance between the end of the bulb and the electrode. Therefore, if a bulb with button stems has the same length as that of a bulb with flare stems, the bulb will have an increased effective luminescent length.

With regard to stems types, there is one which has the tipped-off portion of an exhaust pipe externally protruding from the end of the bulb, and another type which has no exhaust pipe at the end of the bulb. In the case where stems of the latter type are used, the tipped-off portion of the exhaust pipe does not protrude from the end of the bulb. Therefore, the end part of the bulb can be deeply inserted into the base body accordingly. Thus, a stem of this type is more effective in reducing the entire length of the lamp.

Claims

1. A low pressure discharge lamp comprising:

a bulb (10) having electrodes (22) provided in the end portions of the bulb; and

a pair of bases (12) attached to the ends of the bulb, each of said bases having a substantially cylindrical base body (24) with a bottom wall (24a), in which one end portion of the bulb is inserted, and a flat-plate terminal (26) secured to the base body and electrically connected to the electrode, said terminal having a pair of mutually parallel flat faces and being secured to the base body in a manner that these flat faces are located in planes perpendicular to an axis of the bulb, and projecting from the base body in a direction perpendicular to the axis of the bulb;

characterized in that:

each of said terminals (26) is secured to the base body (24) with a part of at least one flat face being in contact with the bottom wall (24a) of the base body.

2. A low pressure discharge lamp according to claim 1, characterized in that said receiving terminal (26) is secured to the base body (24) with part of their flat faces being in contact with an outer surface of the bottom wall (24a).

3. A low pressure discharge lamp according to claim 2, characterized in that said base body (24) has a connection groove (28) formed on the outer surface of the bottom wall (24a) and open at a peripheral edge of the bottom wall, said receiving terminal (26) being fitted into the connection groove.

4. A low pressure discharge lamp according to claim 3, characterized in that said connection groove (28) has an upper groove portion open to the outer surface of the bottom wall (24a) and having a specified width, and a lower portion (28a) wider in width than the upper portion, said terminal (26) having a width substantially equal to the width of the lower portion and being fitted in the lower portion.

5. A low pressure discharge lamp according to claim 4, characterized in that said terminal (26) has a plurality of stopper teeth (36) which engage the bottom wall (24a) so as to prevent the terminal from slipping out of the connection groove (28).

6. A low pressure discharge lamp according to claim 2, characterized in that said bulb (10) includes a pair of lead wires (20) each of which has one end connected to the corresponding electrode (22) and the other end extending from the end of the bulb to the outside, each of said bases (12) having a first through hole (30) formed in the bottom wall (24a) and a second through hole (38) formed in the terminal (26), the first and second through holes mutually extending in the axial direction of the bulb so as to be coaxial to one another, and located against the other end of the lead wire (20), the other end of the lead wire being inserted into first and second through holes and electrically connected to the terminal.

7. A low pressure discharge lamp according to claim 6, characterized in that said other end of each of the said lead wires (20) is soldered to the corresponding terminal (26) at the outside of the base body (24).

8. A low pressure discharge lamp according to claim 1, characterized in that said base body (24) is glued to the end of the bulb (10), and has a working hole (34) formed in the bottom wall (24a), for pouring adhesive (32) into the gaps between the inner surface of the base body and the end of the bulb.

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9. A low pressure discharge lamp according to claim 1, characterized in that said bulb (10) has a light-emitting section which extends over most of the length of the bulb and along the axis of the bulb and has a specified width.

10. A low pressure discharge lamp according to claim 1, characterized in that each of said bases (12) includes a second flat-plate receiving terminal (26) which is electrically connected to the electrode (22) and has a pair of mutually parallel flat faces, said second terminal being secured to the base body (24) such that it is located in the plane on which said terminal is located and part of at least one face of the second terminal contacts the bottom wall (24a), and protruding from the base body in a direction perpendicular to the axis of the bulb (10).

11. A low pressure discharge lamp comprising:

a bulb (10) having electrodes (22) provided in the end portions of the bulb;

a pair of bases (12) attached to the ends of the bulb; and

a pair of terminals secured to the bases and electrically connected to the electrodes, respectively, each of said terminals comprising a pair of flat plates (26) being secured to the base and projecting from the base in a direction perpendicular to an axis of the bulb;

characterized in that:

said flat plates (26) of each terminal are located on a common plane perpendicular to the axis of the bulb (10).

12. A low pressure discharge lamp according to claim 11, characterized in that each of said bases (12) includes a substantially cylindrical base body (24) with a bottom wall (24a), into which one end portion of the bulb (10) is inserted, and said flat plates (26) are secured to the bottom wall.

13. A low pressure discharge lamp according to claim 12, characterized in that each of said bases (12) includes a pair of connection grooves (28) formed on an outer surface of the bottom wall (24a), and said flat plates (26) are fitted into the connection grooves, respectively.

14. A low pressure discharge lamp according to claim 13, characterized in that each of said bases (12) includes a pair of first through holes (30) formed in the bottom wall (24a) and extending in the axial direction of the bulb (10), each of said flat plates (26) has a second through hole (38) coaxially extending with the corresponding first through hole, said bulb (10) includes two pairs of lead wires (20) each pair of which is connected to the electrode (22), each of said lead wires having one end extending from the end of the bulb to the outside and inserted into the first and second through holes (30, 38), and said one end being electrically connected to the flat plate (26).

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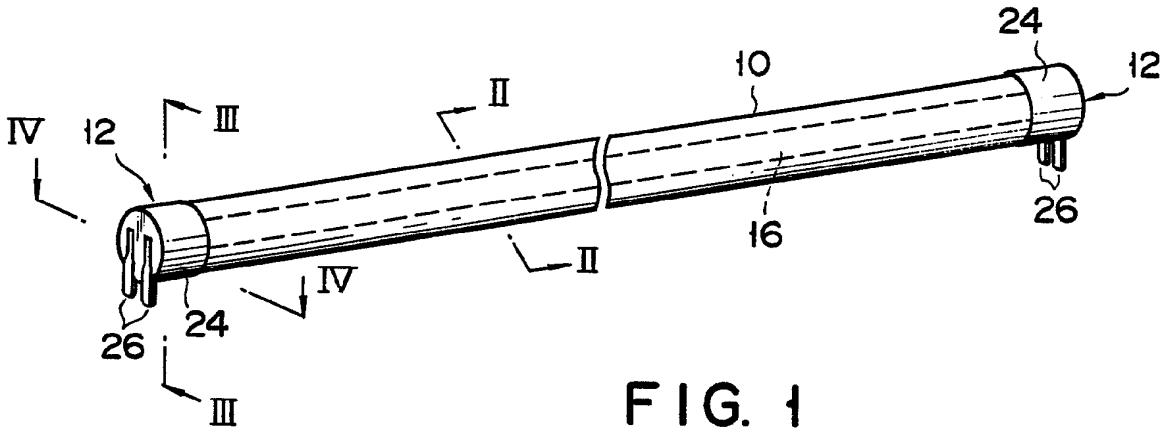


FIG. 1

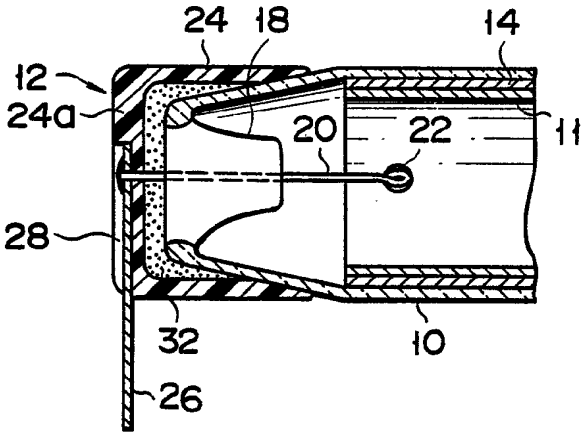


FIG. 3

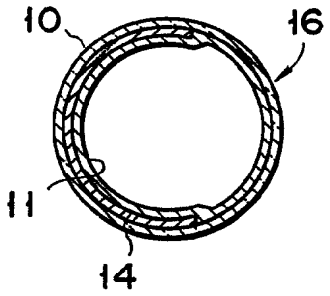


FIG. 2

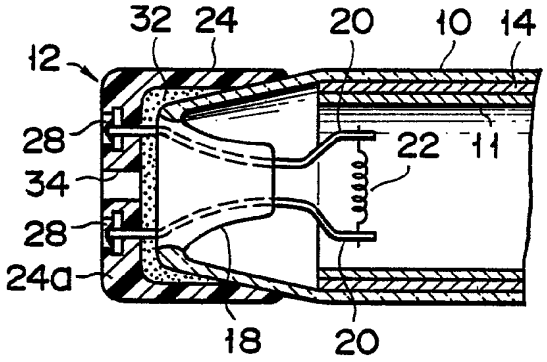


FIG. 4A

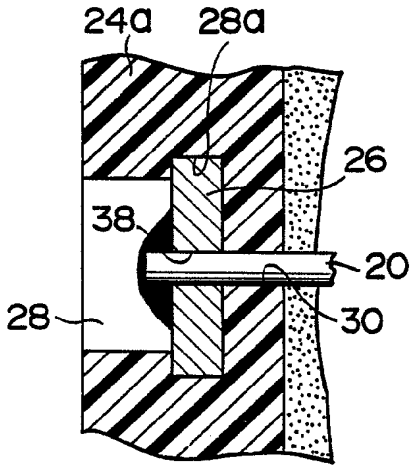


FIG. 4B

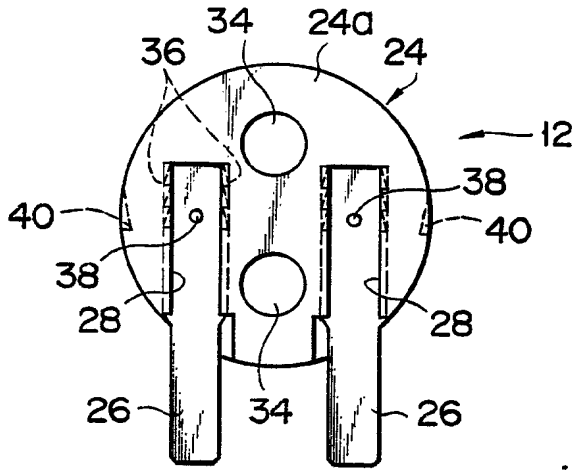

34
24a
24
36
12
38
40
40
38
28
28
26
34
26

FIG. 5

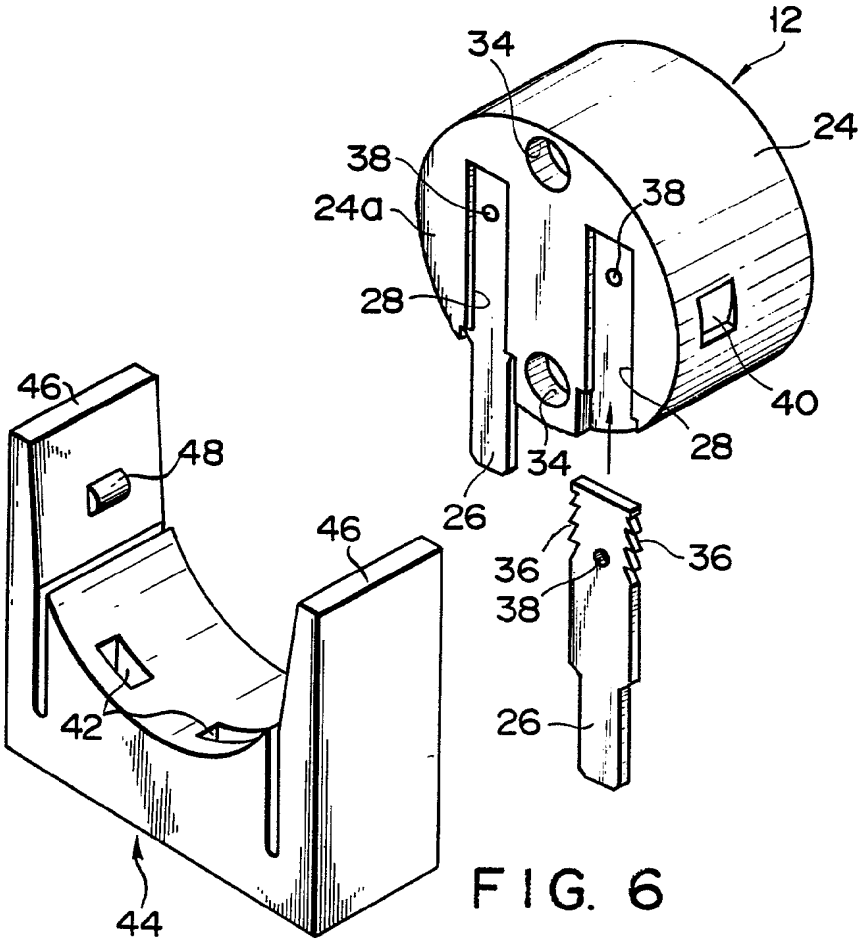

12
34
24
38
38
24a
28
40
28
34
26
46
48
46
36
36
38
42
26
44

FIG. 6

FIG. 7

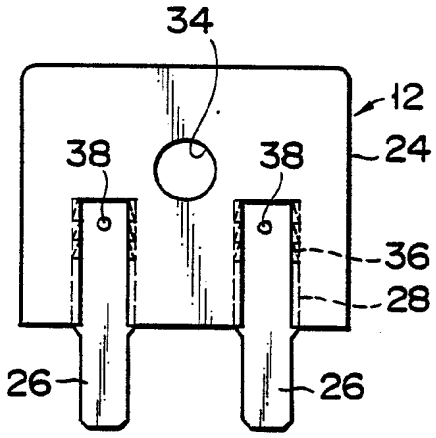


FIG. 8

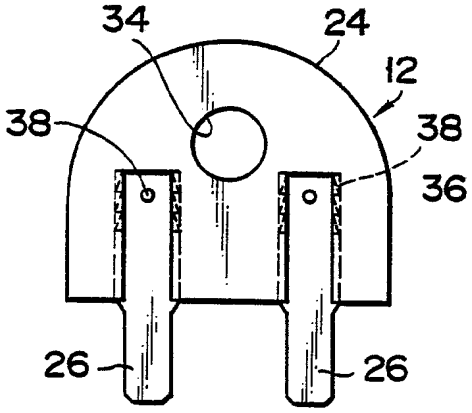
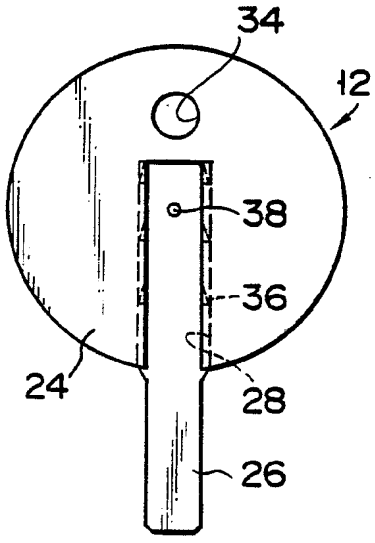


FIG. 9



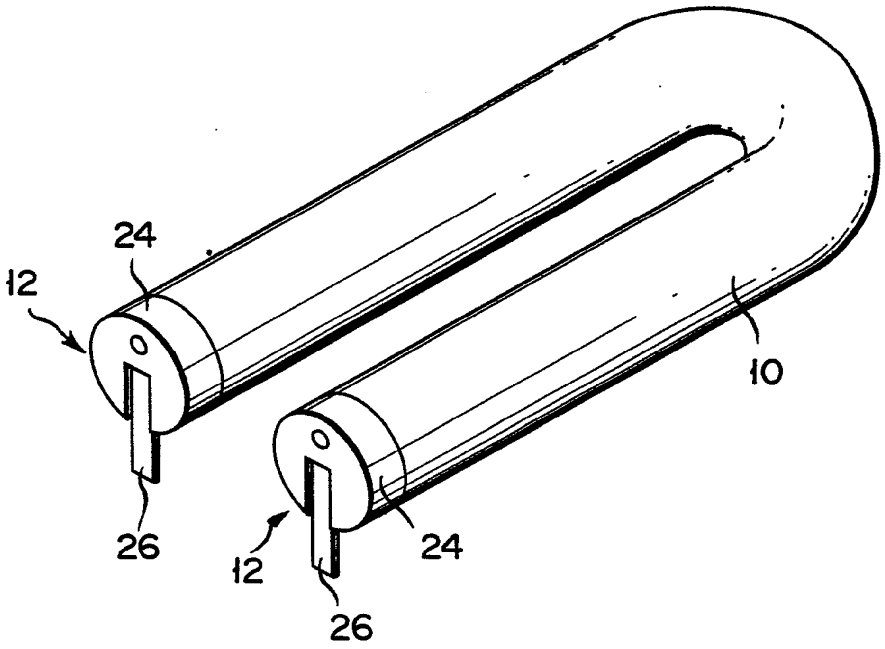


FIG. 10

PATENT ABSTRACTS OF JAPAN

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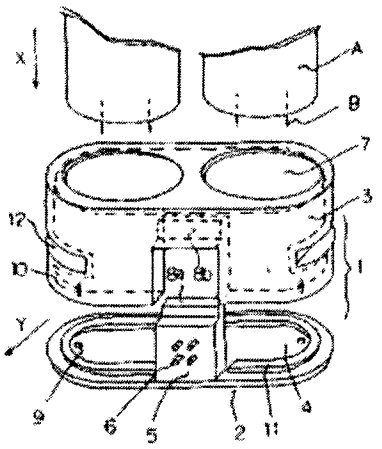
(71) Applicant : TOSHIBA CORP
TOSHIBA KANKIYUU KIZAI KK
(72) Inventor : WATANABE YOSHIMI
KURODA HIROSHI

(54) BASE FOR TUBULAR BULB

(57) Abstract:

PURPOSE: To obtain a base for tubular bulb having a never damaging terminal face by bringing a terminal face in contact with the inner wall face of second member so as to get it locked in the projecting direction of contact terminal pins.

CONSTITUTION: First member 2 is formed through integral molding of the bottom of a bulb base 1, namely a bottom face 4 and a terminal face 5 upstanding from said bottom face 4 where the side face is notched except the terminal face 5. The terminal face 5 is provided with four contact terminal pins 6 projecting to that they may pierce the terminal face 5, while said pins being electrically connected to an external socket. Meanwhile, an insertion port 7 is made through second member 3 for blocking the notch of the first member 2 and forming a casing. Upon insertion of a bulb A into the insertion port 7, the lead wire B of the bulb A is connected to the contact terminal pins 6. Thereafter, the notch of the first member 2 is blocked by the second member 3.



⑲日本国特許庁(JP)　⑪特許出願公開

⑫公開特許公報(A)　昭62-115625

⑤Int.Cl.⁴	識別記号	庁内整理番号	㊸公開 昭和62年(1987)5月27日
H 01 J 5/50		D-6722-5C	

審査請求 未請求 発明の数 1 (全4頁)

㊹発明の名称　管球用口金

㉑特願 昭60-254944
㉒出願 昭60(1985)11月15日

㉓発明者　渡辺　好美　横須賀市船越町1の201の1　株式会社東芝横須賀工場内
㉓発明者　黒田　宏　川崎市幸区小倉1650　東芝管球器材株式会社内
㉑出願人　株式会社東芝　川崎市幸区堀川町72番地
㉑出願人　東芝管球器材株式会社　川崎市幸区小倉1650
㉔代理人　弁理士　則近　憲佑　外1名

明　細　書

1. 発明の名称

管球用口金

2. 特許請求の範囲

接触端子ピンが突設した端子面を一側面に有し，前記接触端子ピンが突設した方向と交叉する方向に管球端部が挿入される挿入口が設けられて成る管球用口金であつて，

少なくとも前記管球用口金は，前記端子面を有すると共に，該記端子面と対向する側面が切欠された第1の部材と，前記第1の部材の切欠を閉塞する第2の部材とにより構成され，

前記端子面が前記第2の部材の内壁面に当接されることにより，前記接触端子ピンの突設方向に係止されていることを特徴とする管球用口金。

3. 発明の詳細な説明

〔発明の技術分野〕

本発明は管球が装着され，外部ソケットと電気的に接続される接触端子ピンが突設された端子面を有する管球用口金に関する。

〔発明の技術的背景とその問題点〕

従来けい光ランプ等の管球には，合成樹脂により一体成形された樹脂体の側面に接触端子ピンが突設した管球用口金が使用されているものがあつた。しかしこの管球用口金の場合，端面に接触端子ピンを有し，また一体的に成形された構造であるために，接触端子ピンの植立(ピンカシメ)作業が非常にやりづらく，接触端子ピンの取り付け強度や，植立後の接触端子ピンの間隔，直角度等，口金の不良が生ずる支障があつた。またランプ組立に際して4本のリード線を接触端子ピンに挿入する作業が手さぐり作業に近いものとなるため，作業性が著しく悪かつた。

またリード線の手さぐり的な作業のためにリード線間の交叉，接触等により，ランプ特性を失する欠点があつた。

〔発明の目的〕

本発明は上記問題点に鑑み成されたもので，管球のリード線との接続における作業性を向上できると共に，外部ソケットとの着脱の際に生じる接

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損を防止する管球用口金を提供することを目的とする。

〔発明の概要〕

本発明は接触端子ピンが突設した端子面を一側面に有し、接触端子ピンが突設した方向と交叉する方向に管球端部が挿入される挿入口が設けられて成る管球用口金であつて、

少なくとも管球用口金は、端子面を有すると共に、端子面と対向する側面が切欠された第1の部材と、第1の部材の切欠を閉塞する第2の部材とにより構成され、

端子面が第2の部材の内壁面に当接されることにより、接触端子ピンの突設方向に係止されており、管球との装着においては、第1の部材と第2の部材とを分離させて作業が行なえ、

接触端子ピンが突出した端子面と対向する側面側から管球のリード線と接触端子ピンとの接続作業が容易に行なえるので、作業性を向上できると共に、端子面が第2の部材の内壁面によつて係止されており、外部ソケットとの着脱の際に、接触端子ピンの突出方向に力が加わつても破損等の支障が生じない管球用口金を提供する。

〔発明の実施例〕

以下に図面を用いて実施例を詳細に説明する。

本発明に係る管球用口金の実施例を第1図及び第2図に示し説明する。

つまり、第1図に示す本実施例に依る管球用口金1は、第2図に示す様に、大別して、第1の部材2と第2の部材3が合致することによつて構成されており、全体として筐体を呈している。

同図で理解される様に、第1の部材2は、管球用口金1の底部を成す底面4と、この底面4に直立する端子面5とを一体的に成形することによつて成されており、端子面5を除く側面は切欠けられている。

ここで、端子面5には、その端子面5を貫通するように、外部ソケットと電気的に接続される4本の接触端子ピン6が突設されている。

また一方、前述の第1の部材2の切欠を閉塞し筐体を形成する第2の部材3には、管球A端部が挿入装着される様に挿入口7が設けられている。

また、管球A端部が挿入口7に挿入される方向（図中X方向）と交叉する様に設けられた接触端子ピン6の突設方向（同図中Y方向）に、端子面5を第2の部材3によつて係止する係止部8a，8bが端子面5及び第2の部材3に各々設けられている。つまり、第1の部材2の端子面5の端部にはくぼみより成る係止部8aが形成され、このくぼみより成る係止部8aと当接する第2の部材3の内壁面には、係止部8aと対応する凸部より成る係止部8bが形成されており、端子面5の端部が第2の部材3の内壁面に当接する構造となつている。

また、本実施例では第1の部材2には2つのネジ穴9，またこのネジ穴9と対応する様に、第2の部材3の内壁には螺刻部10が各々設けられており、第1の部材2と第2の部材3は螺子（図示せず）によつて螺合される。

ここで、第1の部材2には、第2の部材3の内壁面に当接する凸部11が設けられており、この凸部11は、第1の部材2が第2の部材3によつて精度良く閉塞されるように、両者の位置決めを行なうものである。

また、本実施例では、管球用口金1の側面に外部ソケットの形状と対応した刻溝12を設け、その外部ソケットとの着脱に際してのガイド溝の役割を持たせている。

以上の様に構成された管球用口金1と管球Aとの装着について説明を加えると、例えば次の様な手順等により行なわれる。

管球Aを第2の部材3に設けられた挿入口7に挿入した後、この管球Aのリード線Bを第1の部材2に配設された対応する接触端子ピン6とかしめ等の手法により接続する。

その後、第1の部材2の切欠を第2の部材3により閉塞する。この際に、既存の接着剤、固着剤等を適宜用いることによつて、管球Aと管球用口金1，第1の部材2と第2の部材3との両者の固定をより確実にすることもできる。

以上説明した様に本実施例によれば、管球用口

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金が，第1の部材，第2の部材の2つの部材によつて別体的に形成されているので，接触端子ピンが突設された端子面と対向する他方の側面側からリード線と接触端子ピンとの例えばかしめ等の接続作業が行なえる。つまり，この接続作業の作業性が格段と向上し，製造工程の歩留まりの改善や，製品の信頼性の向上が可能となる。

また，第1の部材と第2の部材との接合部分に，係止部が形成されており，第1の部材の端子面が第2の部材によつても係止されているので，例えば外部ソケットとの着脱の際に，接触端子ピンの突設方向に力が加わつても，端子面の歪みや，破損を解消できる。

以上の実施例においては，管球端部が挿入される挿入口が2個設けられている例えば2本の管球やり手管等に適した管球用口金の一例について説明しているが，本発明は，各種の仕様等に応じて変更することもできる。

例えば両封止の直管形状の管球においては，その管球の両端に，本発明による管球用口金を装着が突出した結合面と対をなす他方の側面側から管球のリード線と接触端子ピンとの接続作業が容易となり，また端子面は，第2の部材の内壁面に当接されて，接触端子ピンの突設方向に係止されるので，端子面の破損の支障がない管球用口金が提供できる。

4. 図面の簡単な説明

第1図は本発明に係る管球用口金の一実施例を示す斜視図，第2図は第1図に示した管球用口金に挿入される管球と，分解した管球用口金を示す概略図である。

1 …… 管球用口金，　2 …… 第1の部材
3 …… 第2の部材，　5 …… 端子面，
6 …… 接触端子ピン，　A …… 管球

代理人 弁理士　則　近　憲　佑
同　　竹　山　幸　夫

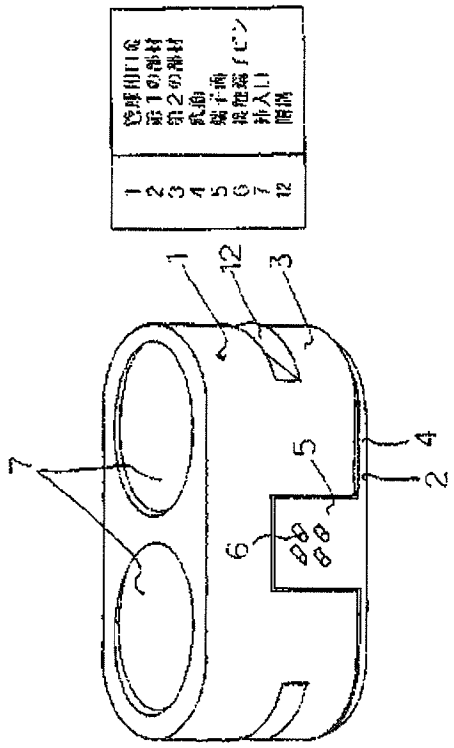
してもよい。

また，以上の実施例においては，本発明の管球用口金について，具体的に形状，構造，材質等を詳細に説明しているが，本発明はこれに限られることはない。

例えば，実施例においては底面と，この底面に直立する端子面とが一体的に成形された第1の部材を示しているが，本発明はこれに限られず，接触端子ピンが突設された端子面を含み，少なくともこの端子面と対向する側面が切欠された第1の部材が，第2の部材によつて閉塞される構造であれば良く，例えば各種の仕様等に応じて，第2の部材を複数の部材により構成することもできる。

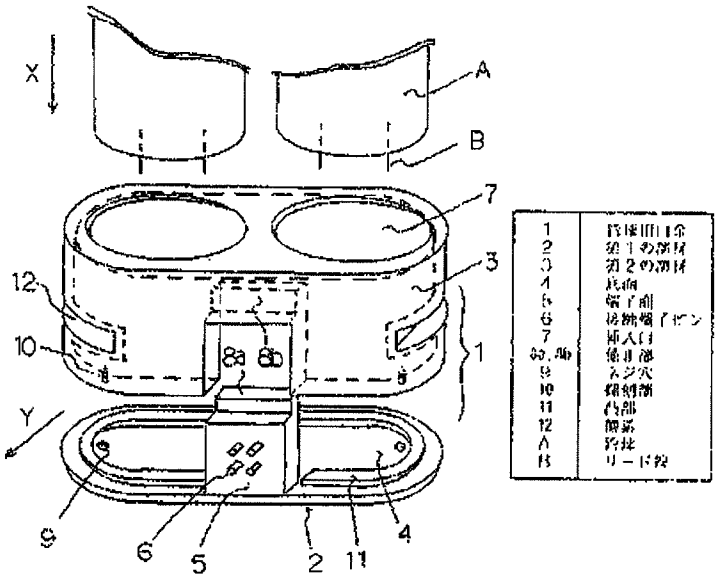
〔発明の効果〕

本発明に依れば，少なくとも，端子面を有すると共に，端子面と対向する側面が切欠された第1の部材と，この第1の部材の切欠を閉塞する第2の部材とにより管球用口金が構成されており，管球との装着においては，第1の部材と第2の部材とを分離して作業が行なえるので，接触端子ピン



第1図

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第２図

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Result Page

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<Desc/Clms Page number 1>

Apparatus of water disinfection per ultraviolet radiation.

The invention relates to the field of the water treatment for their disinfection, as well in the frame of processes of purification as of processes of potabilisation.

Precisely, the invention relates to the disinfection of water with ultraviolet radiation in open channel.

According to such technical, water to be disinfected forwards in an open channel in its upper portion inside whose one or more banks are laid out of lamps exempting an ultraviolet radiation a length of waves ranging between 180 Nm and 400 Nm.

These banks consist of several parallel mounted modules between them, each comprising module one or more vertical series of lamps UV protected by quartz sheaths and laid out according to direction's of flow of water to disinfect in the channel, a beam and support means connecting the lamps to this beam.

These banks of lamps UV are laid out in the channel of way such as the unit of the lamps is submerged in water forwarding in this one. Each module is maintained in place thanks to a provided beam of supports accomodating the lamps in their transparent sheath with the UV.

The lamps are laid out of way such as their longitudinal axis is essentially parallel to the direction of flow of water in the channel so that water is in contact longest possible with the disinfecting radiation. The channels of water disinfection are thus equipped with several banks of lamps laid out in the channel the ones following the others.

▲ top This technical of disinfection by ultraviolet radiation in open channel exists since a score of years. Progressively with the evolution of technical, the lamps UV presented an increasingly large power, particularly thanks to the technology of the lamps UV low pressure, allowing each bank lamps to treat an increasingly substantial amount of water.

<Desc/Clms Page number 2>

Gold, in particular when treated water is consisted spent water, a more or less substantial deposit is formed on the sheaths of protection of the lamps UV, harming the transmitting of the ultraviolet radiation progressively.

Also, it is now current to equip the apparatuses with water disinfection per ultraviolet radiation of cleaning means of these sheaths of protection.

These cleaning means are consisted automated scrapers which carry out a movement of to and from along the sheaths.

Currently, the known solutions implement a cylinder (pneumatic or hydraulic) by module. In other words, each bank includes/understands as many cylinders as it includes/understands modules.

Such a solution is expensive, insofar as multiple cylinders are necessary to obtain the desired cleaning, of the suitable piloting means for the whole of these cylinders being also to envisage.

Moreover, one such technical optionally implies times of installation, and of maintenance, relatively substantial.

Moreover, the cylinders actuating the scrapers being envisaged on the modules and thus increasing their weight, these modules are often difficult to handle.

The invention has particularly as an objective to mitigate these disadvantages of the anterior art.

Precisely, the invention has as an objective to propose an apparatus of water disinfection per ultraviolet radiation in which the cleaning means of the sheaths of protection of the lamps UV are less expensive and less complex than those of the anterior art.

The invention has also as an objective to provide such an apparatus which makes it possible to reduce times of installation notably.

The invention has also as an objective to provide such an apparatus which facilitates and/or reduced the maintenance.

The invention has also as an objective to provide such an apparatus which present an equivalent power with that of the apparatuses of the anterior art.

<Desc/Clms Page number 3>

Another objective of the invention is to provide such an apparatus in which the cleaning means are simple of design and easy implement.

These objectives, as of others which will appear thereafter are reached thanks to the invention which has as an object an apparatus of water disinfection per ultraviolet radiation intended for tre installed in an open channel of an installation of water disinfection per ultraviolet radiation, the aforementioned apparatus including a plurality of longitudinal means forming lamps UV made up each one of a lamp UV and a sheath of transparent material protection to the UV and being divided into a plurality of vertical modules forming a bank, each module making up of one beam to which are attached at least two average formant vertical supports accomodating at least a series of the aforesaid means forming lamps envisaged under the aforementioned beam the ones above others, and at least a movable mounted carriage in translation on each one of the aforesaid beams, the aforementioned carriages supporting of the cleaning means of the aforesaid sheaths, characterised in that the aforementioned apparatus includes/understands common means of drive of the unit of the aforesaid carriages not supported by the aforementioned modules.

Thus, contrary to the conventional solutions, the apparatus in accordance with the invention avoids implementing a plurality of cylinders dedicated each one to a carriage, to actuate the cleaning means (scrapers). On the contrary, in accordance with the invention the whole of the cleaning means of Mrs. bank is actuated with common means.

Consequently, of the substantial savings of time can tre obtained as well in terms of installation as in terms of maintenance of the driving means of the scrapers.

Moreover, the common means of drive not being supported by the modules, those are much slighter and easy with handle that the modules of the anterior art equipped each one with a cylinder of actuating of the carriage.

top Lastly, thanks to the invention, one reduced considerably the cost of the apparatus.

According to a preferential first mode of performing, the aforementioned common means of drive carry hooking means automatic of the aforesaid carriages

<Desc/Clms Page number 4>

and/or each one of the aforesaid carriages door of the automatic hooking means to that the common means of drive.

One thus obtains an advantageous apparatus in what it makes it possible to install the common means of drive and the carriages supporting the cleaning means, independently from/to each other, hooking of the ones with the others being obtained automatically with the first movement of to and from of the driving means.

Moreover, if one of the carriages has suddenly taken down driving means, the driving means will be able to cling again to the carriage in question at the time of the following passage of the driving means.

Preferably, the aforementioned hooking means automatic are preferably conceived to be taken down when the aforementioned carriage and/or the aforementioned cleaning means transmit a predetermined resistance to the opposition to the translation of the aforesaid driving means.

In this way, if there is locking of one of the carriages, the invention makes it possible to disunite carriage blocked very

continuously to actuate the other carriages.

Thus, the lamps and the sheaths of the module whose carriage was blocked are protected of any breakage due to the power of the cleaning means.

Such a locking could for example tre generated by a too substantial accumulation of the deposit being formed on one of the sheaths of protection, the coming corresponding scraper if necessary in stop on the deposit accumulated without being able to continue its displacement. Other situations of locking, for example due to the mechanical parts in movement, are of course possible.

According to an advantageous solution, the aforementioned hooking means automatic include connection systems nonpermanent, for example type spring, magnet...

One thus obtains an effective and simple means of design in order to exert the automatic function of hooking.

Préférentiellemnent, the aforementioned connection systems are springs.

<Desc/Clms Page number 5>

Such means are simple of design, sparingly expensive and can readily and quickly tre implemented. Moreover, such springs have a structure and an operation such as they are sparingly or not subjected to wear and do not require any maintenance or almost.

In addition, the springs are particularly advantageous in what they can bend according to a first direction with a low force to allow the hooking of the carriages with the driving means, and in what they can also bend according to a second direction, opposed to the first, with an effort more substantial than the effort carried out for the hooking, to allow the unhooking of a carriage in a situation of locking as mentioned previously.

Preferably, the aforementioned springs extend starting from the said carriages, while being converging one towards the other in direction of the aforesaid commuins means of drive of the whole of the carriages.

Such an arrangement makes it possible to provide the functions of hooking and of unhooking automatic some is the direction of the displacement of the driving means compared to the carriages.

According to an advantageous solution, the aforementioned common means of drive include/understand at least an electrical cylinder, envisaged on at least with dimensions a of the aforesaid bank.

One will be able however to consider other embodiments of these common means of drive, always not supported by the modules, implementing for example average formant pulley (S) and belt (S).

Preferably, the driving means include/understand two cylinders, envisaged on both sides of the aforesaid bank.

top Preferably, the aforementioned cylinder or the aforementioned cylinders door (NT) at least a bar extending substantially perpendicularly to the axis longitudinally of the aforesaid means forming lamps.

The bar in very simple question thus can tre of design by presenting a constant section designed to cooperate with each spring carried by the carriages.

<Desc/Clms Page number 6>

According to a preferential variant, the race of or of the aforesaid cylinders is upper with the length of the beams of the modules. Thus, it is possible to take along this bar beyond the modules to facilitate the maintenance of those.

The invention also relates to an installation of water disinfection including at least an apparatus of water disinfection with ultraviolet radiation as described previously.

Other characteristics and benefits of the invention will clearly appear with the reading of the following description of an embodiment preferential of the invention, given as illustrative and nonrestrictive example, and annexed drawings according to which: figure 1 is a side view of a module of a bank of an apparatus of disinfection in accordance with the invention; figure 2 is a view of details of the hooking means and automatic unhookings of an apparatus of disinfection in accordance with the invention; figure 3 is a view out of cut of a channel receiving a bank of lamps UV divided into modules and provided common means of drive of the carriages not supported by the modules.

As mentioned previously, the apparatus in accordance with the invention is intended to equip an installation with water disinfection comprising an open concrete channel in its upper portion and in which forwards a water to disinfect.

It is pointed out that such an apparatus is consisted the association of several modules of disinfection laid out parallel between them. Such an association of modules of disinfection is conventionally indicated by the term bank by the man of the art.

In reference on figure 1, each module is consisted a beam 1 to which supports are connected 2 (preferably two supports per beam) supporting two series vertical of average formant lamp 3 (one note that one understands by average formant lamp the formed whole by the lamp UV, its sheath of protection out of transparent material to the ultraviolet radiations, generally out of quartz, and by a connector with the one their ends).

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As illustrated by figure 1, each module also includes/understands average sliding mounted scrapers 4 on average the formant lamp 3 according to a race corresponding one at least with the length of the lamps UV, like on beam 1 via a carriage 5.

In accordance with the invention, carriage 5 of each module is capable of tre displaced along beam 1 under the action of common means of drive.

As one can see it on figure 3, these common means of drive 6 include/understand two cylinders 61 envisaged on both sides bank and thus not supported by the modules and a cross bar 62 connected to the movable member 61a of these cylinders 61. Cross bar 62 extends substantially perpendicularly compared to average the formant lamp 3, this on full width of the corresponding bank. Driving means 6 make it possible to actuate the carriages on entire length of the sheaths of the lamps
The means ensuring the hooking and the automatic unhooking of carriage 5 the driving means are more illustrated in detail by figure 2.

In reference on figure 2, carriage 5 door two springs 51a, 51b extending starting from the carriage, while being inclined. These springs 51a, 51b define between them a space in which cross bar 62 span by cylinders 61 comes to fit.

The functions of automatic hooking and unhooking go tre clarified more in detail in reference to operation described hereinafter.

Dans l'hypothèse selon laquelle un chariot 5 n'est pas accroché aux moyens d'entraînement 6, lorsque la barre 62 se déplace dans la direction indiquée par la flèche F, (en venant de la gauche sur la figure 2), celle-ci vient au contact du ressort 51a et contraint le ressort 51a à fléchir tel qu'indiqué par la flèche F',.

Bar 62 comes then in stop against the spring 51b, while spring 5 takes it again its initial position, bar 62 fitting then in defined space by the two springs 51a and 51b.

Thus, from the stiffness of the springs 51a and 51b, carriage 5 is integral of bar 62. On the assumption according to which
▲ top scraper 4 is in situation of locking, and generates an upper resistance with the stiffness of the one of the springs 51a, 51b,

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bar 62 pulled by movable member 61 has cylinders 61 (for the example, in the indicated direction by the F2 arrow) obliges the corresponding spring (in the occurrence the spring 51a) to bend such as indicated by the F'2 arrow, until bar 62 releases from its housing.

The driving means can then continue their displacement, supporting carriage 5 scraper 4 in situation of locking remaining fixed.

It will be noted that the travel of cylinders 6 is larger than the length of beams 1. Cylinders 61 can thus take along bar 62 beyond the end of beam 1. The springs thus start all with Mrs. place what makes it possible to release the modules. Those can tre then dismounted and extended of the channel since bar 62 is not any more above the modules. At the time of the resetting on the way, the springs replace them-Mrs. in working position with the first passage of bar 62 above the modules.

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CLAIMS 1-Apparatus of water disinfection per ultraviolet radiation intended for tre installed in an open channel of an installation of water disinfection per ultraviolet radiation, the aforementioned apparatus including a plurality of longitudinal means forming lamps UV (3) made up each one of a lamp UV and a sheath of transparent material protection to the UV and being divided into a plurality of vertical modules forming a bank, each module making up of a beam (1) to which are attached at least two average formant supports (2) vertical accomodating at least a series of the aforesaid means forming lamps (3) envisaged under the aforementioned beam (1) ones above the others, and at least a carriage (5) mounted movable in translation on each one of the aforesaid beams (1), the aforementioned carriages (5) supporting cleaning means (4) of the aforesaid sheaths characterized in what it includes/understands of the common means of drive (6) of the unit of the aforesaid carriages (5) not supported by the aforementioned modules.

2-apparatus according to claim 1, characterised in that the aforementioned common means of drive (6) carry hooking means automatic of the aforesaid carriages (5) and/or in what each one of the aforesaid carriages (5) automatic door of the hooking means to that the common means of drive (6).

3-apparatus according to A claim 2, characterised in that the aforementioned hooking means automatic are conceived to be taken down when the aforementioned carriage and/or the aforementioned cleaning means transmit a predetermined resistance to the opposition to the translation of the aforesaid driving means (6).

4-apparatus according to any of claims 2 or 3, characterised in that the aforementioned hooking means automatic include connection systems nonpermanent.

5-apparatus according to the claim 4, characterised in that the aforementioned connection systems nonpermanent are springs (Sla), (51b).

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▲ top 6-apparatus according to any of claims 1 to 5, characterised in that the aforementioned common means of drive (6) include/understand at least a cylinder (61) envisaged on at least with dimensions a of the aforesaid bank.

7. Apparatus according to the characterised in that claim 6 the aforementioned common means of drive (6) include/understand two cylinders (61), laid out on both sides of the aforesaid bank.

8. Apparatus according to the claim 6 or 7, characterised in that the aforementioned cylinder or the aforementioned cylinders (61) door (NT) at least a bar (62) extending substantially perpendicularly to the longitudinal axis of the aforesaid means forming lamps (3).

9. Apparatus according to any of claims 6 to 8 characterised in that the travel of the cylinders (61) is upper with the length of the aforesaid beams (1) 10-Installation of water disinfection, characterized in what it includes at least an apparatus of water disinfection per ultraviolet radiation intended for tre installed in an open channel of an installation of water disinfection per ultraviolet radiation, the aforementioned apparatus including a plurality of longitudinal means forming lamps UV (3) made up each one of a lamp UV and a sheath of transparent material protection to the UV and being divided into a plurality of vertical modules forming a bank, each module making up ofa beam (1) to which are attached at least two average formant supports (2) vertical accomodating at least a series of the aforesaid means forming lamps (3) envisaged under the aforementioned beam (1) the ones above the others, and of at least a carriage (5) mounted movable in translation on each one of the aforesaid beams (1), the aforementioned carriages supporting of the cleaning means (4) of the aforesaid sheaths, characterised in that the aforementioned apparatus includes/understands common means of drive (6) of the unit of the aforesaid carriages of the aforesaid carriages (5) not supported by the aforementioned modules.

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(71) Déposant *(pour tous les États désignés sauf US)* : **OTV SA** [FR/FR]; L'Aquarène, 1, place Montgolfier, F-94417 Saint Maurice Cedex (FR).

(72) Inventeurs; et

(75) Inventeurs/Déposants *(pour US seulement)* : **GIRODET, Pierre** [FR/FR]; 171, quai du Docteur Dervaux, F-92600 Asnière-sur-Seine (FR). **VANPEENE, Christian** [FR/FR]; 18, rue Eugène Pelletan, F-94800 Villejuif (FR).

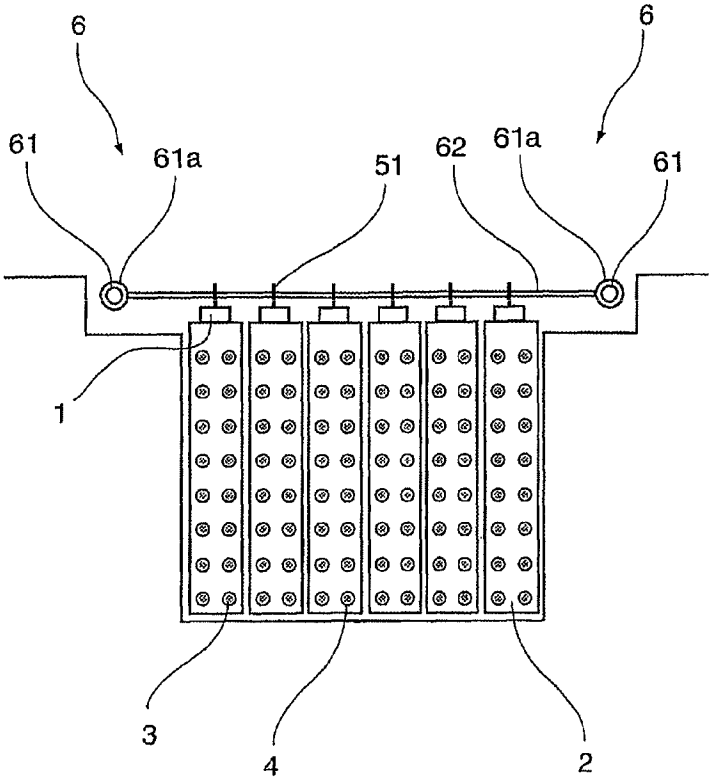
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[Suite sur la page suivante]

(54) Title: DEVICE FOR DISINFECTING WATER BY MEANS OF ULTRAVIOLET RADIATION

(54) Titre : DISPOSITIF DE DESINFECTION D'EAU PAR RAYONNEMENT ULTRAVIOLET



(57) **Abstract:** The invention relates to a device for disinfecting water by means of ultraviolet radiation, said device to be installed in an open channel of an installation for disinfecting water by means of ultraviolet radiation, and comprising a plurality of longitudinal means forming UV lamps (3). Each means consists of a UV lamp and a protective sleeve consisting of a material that is transparent to UV light, and they are distributed in a plurality of vertical modules forming a bed, each module consisting of a beam (1) to which at least two other means are fixed, for forming vertical supports (2) receiving at least one series of the lamp-forming means (3) that are superimposed beneath said beam (1). The inventive device also comprises at least one carriage (5) that is mounted in such a way that it can be translationally moved on each beam (1), said carriages (5) carrying means (4) for cleaning the sleeves. The inventive device is characterised in that it comprises common means for driving (6) the group of carriages (5) which are not supported by said modules.

[Suite sur la page suivante]

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En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT.

(57) Abrégé : L'invention a pour objet un dispositif de désinfection d'eau par rayonnement ultraviolet destiné à être installé dans un chenal ouvert d'une installation de désinfection d'eau par rayonnement ultra-violet, ledit dispositif incluant une pluralité de moyens longitudinaux formant lampes UV (3) constitués chacun d'une lampe UV et d'une gaine de protection en matériau transparent aux UV et étant répartis en une pluralité de modules verticaux formant un banc, chaque module étant constitué d'une poutre (1) à laquelle sont fixés au moins deux moyens formant supports (2) verticaux accueillant au moins une série desdits moyens formant lampes (3) prévus sous ladite poutre (1) les uns au-dessus des autres,et moins un chariot (5) monté mobile en translation sur chacune desdites poutres (1), lesdits chariots (5) portant des moyens de nettoyage (4) desdites gaines caractérisé en ce qu'il comprend des moyens communs d'entraînement (6) de l'ensemble desdits chariots (5) non supportés par lesdits modules.

Dispositif de désinfection d'eau par rayonnement ultraviolet.

L'invention concerne le domaine du traitement des eaux en vue de leur désinfection, tant dans le cadre de procédés d'épuration que de procédés de potabilisation.

Plus précisément, l'invention concerne la désinfection des eaux par rayonnement ultraviolet en chenal ouvert.

Selon une telle technique, l'eau à désinfecter transite dans un chenal ouvert dans sa partie supérieure à l'intérieur duquel sont disposés un ou plusieurs bancs de lampes dispensant un rayonnement ultraviolet d'une longueur d'ondes comprise entre 180 nm et 400 nm.

Ces bancs sont constitués de plusieurs modules montés parallèles entre eux, chaque module comprenant une ou plusieurs séries verticales de lampes UV protégées par des gaines en quartz et disposées selon le sens d'écoulement de l'eau à désinfecter dans le chenal, une poutre et des moyens de support reliant les lampes à cette poutre.

Ces bancs de lampes UV sont disposés dans le chenal de façon telle que l'ensemble des lampes est immergé dans l'eau transitant dans celui-ci. Chaque module est maintenu en place grâce à une poutre pourvue de supports accueillant les lampes dans leur gaine transparente aux UV.

Les lampes sont disposées de façon telle que leur axe longitudinal soit essentiellement parallèle à la direction d'écoulement de l'eau dans le chenal pour que l'eau soit en contact le plus longtemps possible avec le rayonnement désinfectant. Les chenaux de désinfection d'eau sont ainsi équipés de plusieurs bancs de lampes disposés dans le chenal les uns à la suite des autres.

Cette technique de désinfection par rayonnement ultraviolet en chenal ouvert existe depuis une vingtaine d'années. Au fur et à mesure de l'évolution de la technique, les lampes UV ont présenté une puissance de plus en plus grande, notamment grâce à la technologie des lampes UV basse pression, permettant à chaque banc de lampes de traiter une quantité d'eau de plus en plus importante.

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Or, en particulier lorsque les eaux traitées sont constituées par des eaux usées, un dépôt plus ou moins important se forme sur les gaines de protection des lampes UV, nuisant progressivement à la transmission du rayonnement ultraviolet.

Aussi, il est maintenant courant d'équiper les dispositifs de désinfection d'eau par rayonnement ultraviolet de moyens de nettoyage de ces gaines de protection.

Ces moyens de nettoyage sont constitués par des racleurs automatisés qui effectuent un mouvement de va-et-vient le long des gaines.

Actuellement, les solutions connues mettent en oeuvre un vérin (pneumatique ou hydraulique) par module. En d'autres termes, chaque banc comprend autant de vérins qu'il comprend de modules.

Une telle solution est coûteuse, dans la mesure où de multiples vérins sont nécessaires pour obtenir le nettoyage souhaité, des moyens de pilotage appropriés pour l'ensemble de ces vérins étant également à prévoir.

De plus, une telle technique implique des temps d'installation, et éventuellement de maintenance, relativement importants.

De plus, les vérins actionnant les racleurs étant prévus sur les modules et augmentant ainsi leur poids, ces modules sont souvent difficiles à manipuler.

L'invention a notamment pour objectif de pallier ces inconvénients de l'art antérieur.

Plus précisément, l'invention a pour objectif de proposer un dispositif de désinfection d'eau par rayonnement ultraviolet dans lequel les moyens de nettoyage des gaines de protection des lampes UV sont moins coûteux et moins complexes que ceux de l'art antérieur.

L'invention a également pour objectif de fournir un tel dispositif qui permette de réduire notablement les temps d'installation.

L'invention a aussi pour objectif de fournir un tel dispositif qui facilite et/ou réduit la maintenance.

L'invention a aussi pour objectif de fournir un tel dispositif qui présente une puissance équivalente à celle des dispositifs de l'art antérieur.

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Un autre objectif de l'invention est de fournir un tel dispositif dans lequel les moyens de nettoyage sont simples de conception et faciles à mettre en oeuvre.

Ces objectifs, ainsi que d'autres qui apparaîtront par la suite sont atteints grâce à l'invention qui a pour objet un dispositif de désinfection d'eau par rayonnement ultraviolet destiné à être installé dans un chenal ouvert d'une installation de désinfection d'eau par rayonnement ultra-violet, ledit dispositif incluant une pluralité de moyens longitudinaux formant lampes UV constitués chacun d'une lampe UV et d'une gaine de protection en matériau transparent aux UV et étant répartis en une pluralité de modules verticaux formant un banc, chaque module étant constitué d'une poutre à laquelle sont fixés au moins deux moyens formant supports verticaux accueillant au moins une série desdits moyens formant lampes prévus sous ladite poutre les uns au-dessus des autres, et au moins un chariot monté mobile en translation sur chacune desdites poutres, lesdits chariots portant des moyens de nettoyage desdites gaines,

caractérisé en ce que ledit dispositif comprend des moyens communs d'entraînement de l'ensemble desdits chariots non supportés par lesdits modules.

Ainsi, à l'inverse des solutions classiques, le dispositif selon l'invention évite de mettre en oeuvre une pluralité de vérins dédiés chacun à un chariot, pour actionner les moyens de nettoyage (racleurs). Au contraire, selon l'invention l'ensemble des moyens de nettoyage d'un même banc est actionné avec des moyens communs.

En conséquence, des gains de temps notables peuvent être obtenus tant en termes d'installation qu'en termes de maintenance des moyens d'entraînement des racleurs.

De plus, les moyens communs d'entraînement n'étant pas supportés par les modules, ceux-ci sont beaucoup plus légers et faciles à manipules que les modules de l'art antérieur équipés chacun d'un vérin d'actionnement du chariot.

Enfin, grâce à l'invention, on réduit considérablement le coût du dispositif.

Selon un premier mode de réalisation préférentiel, lesdits moyens communs d'entraînement portent des moyens d'accrochage automatique desdits chariots

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et/ou chacun desdits chariots porte des moyens d'accrochage automatiques auxdits moyens communs d'entraînement.

On obtient ainsi un dispositif avantageux en ce qu'il permet d'installer les moyens communs d'entraînement et les chariots portant les moyens de nettoyage, indépendamment les uns des autres, l'accrochage des uns avec les autres étant obtenu automatiquement au premier mouvement de va-et-vient des moyens d'entraînement.

En outre, si un des chariots vient à se décrocher des moyens d'entraînement, les moyens d'entraînement pourront s'accrocher à nouveau au chariot en question lors du passage suivant des moyens d'entraînement.

Préférentiellement, lesdits moyens d'accrochage automatique sont préférentiellement conçus pour se décrocher lorsque ledit chariot et/ou lesdits moyens de nettoyage transmettent une résistance prédéterminée à l'encontre de la translation desdits moyens d'entraînement.

De cette façon, s'il y a blocage d'un des chariots, l'invention permet de se désolidariser du chariot bloqué tout en continuant à entraîner les autres chariots. Ainsi, les lampes et les gaines du module dont le chariot s'est bloqué sont protégées de toute casse due à la puissance des moyens de nettoyage.

Un tel blocage pourrait par exemple être engendré par une accumulation trop importante du dépôt se formant sur une des gaines de protection, le racleur correspondant venant le cas échéant en butée sur le dépôt accumulé sans pouvoir poursuivre son déplacement. D'autres situations de blocage, par exemple dues aux pièces mécaniques en mouvement, sont bien entendu envisageables.

Selon une solution avantageuse, lesdits moyens d'accrochage automatique incluent des systèmes de liaison non permanente, par exemple du type ressort, aimant...

On obtient ainsi un moyen efficace et simple de conception en vue d'exercer la fonction d'accrochage automatique.

Préférentiellemnent, lesdits systèmes de liaison sont des ressorts.

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De tels moyens sont simples de conception, peu coûteux et peuvent aisément et rapidement être mis en oeuvre. En outre, de tels ressorts ont une structure et un fonctionnement tels qu'ils sont peu ou pas soumis à usure et ne nécessitent aucune maintenance ou presque.

Par ailleurs, les ressorts sont particulièrement avantageux en ce qu'ils peuvent fléchir selon une première direction avec une faible force pour permettre l'accrochage des chariots avec les moyens d'entraînement, et en ce qu'ils peuvent également fléchir selon une deuxième direction, opposée à la première, avec un effort plus important que l'effort effectué pour l'accrochage, pour permettre le décrochage d'un chariot dans une situation de blocage telle que mentionnée précédemment.

Préférentiellement, lesdits ressorts s'étendent à partir desdits chariots, en étant convergents l'un vers l'autre en direction desdits moyens commuins d'entraînement de l'ensemble des chariots.

Un tel agencement permet d'assurer les fonctions d'accrochage et de décrochage automatiques quelque soit la direction du déplacement des moyens d'entraînement par rapport aux chariots.

Selon une solution avantageuse, lesdits moyens communs d'entraînement comprennent au moins un vérin électrique, prévu sur au moins un coté dudit banc. On pourra toutefois envisager d'autres modes de réalisation de ces moyens communs d'entraînement, toujours non supportés par les modules, mettant par exemple en oeuvre des moyens formant poulie(s) et courroie(s).

Préférentiellement, les moyens d'entraînement comprennent deux vérins, prévus de part et d'autre dudit banc.

Préférentiellement, ledit vérin ou lesdits vérins porte(nt) au moins une barre s'étendant sensiblement perpendiculairement à l'axe longitudinalement desdits moyens formant lampes.

La barre en question peut ainsi être de conception très simple en présentant une section constante prévue pour coopérer avec chacun des ressorts portés par les chariots.

Selon une variante préférentielle, la course du ou desdits vérins est supérieure à la longueur des poutres des modules. Ainsi, il est possible d'emmener cette barre au-delà des modules pour faciliter la maintenance de ceux-ci.

L'invention concerne également une installation de désinfection d'eau incluant au moins un dispositif de désinfection d'eau par rayonnement ultraviolet tel que décrit précédemment.

D'autres caractéristiques et avantages de l'invention apparaîtront plus clairement à la lecture de la description suivante d'un mode de réalisation préférentiel de l'invention, donné à titre d'exemple illustratif et non limitatif, et des dessins annexés selon lesquels :

- la figure 1 est une vue de côté d'un module d'un banc d'un dispositif de désinfection selon l'invention ;
- la figure 2 est une vue de détails des moyens d'accrochage et de décrochages automatiques d'un dispositif de désinfection selon l'invention ;
- la figure 3 est une vue en coupe d'un chenal recevant un banc de lampes UV réparties en modules et pourvu de moyens communs d'entraînement des chariots non supportés par les modules.

Tel que mentionné précédemment, le dispositif selon l'invention est destiné à équiper une installation de désinfection d'eau comprenant un chenal en béton ouvert dans sa partie supérieure et dans lequel transite une eau à désinfecter.

On rappelle qu'un tel dispositif est constitué par l'association de plusieurs modules de désinfection disposés parallèle entre eux. Une telle association de modules de désinfection est classiquement désignée par le terme « banc » par l'homme de l'art.

En référence à la figure 1, chaque module est constitué par une poutre 1 à laquelle sont reliés des supports 2 (préférentiellement deux supports par poutre) portant deux séries verticales de moyens formant lampe 3 (on note qu'on entend par « moyens formant lampe » l'ensemble formé par la lampe UV, par sa gaine de protection en matériau transparent aux rayonnements ultraviolets, généralement en quartz, et par un connecteur à l'une de leurs extrémités).

Tel qu'illustré par la figure 1, chaque module comprend également des moyens racleurs 4 montés coulissants sur les moyens formant lampe 3 selon une course correspondant au moins à la longueur des lampes UV, ainsi que sur la poutre 1 par l'intermédiaire d'un chariot 5.

Selon l'invention, le chariot 5 de chaque module est susceptible d'être déplacé le long de la poutre 1 sous l'action de moyens communs d'entraînement.

Comme on peut le voir sur la figure 3, ces moyens communs d'entraînement 6 comprennent deux vérins 61 prévus de part et d'autre du banc et donc non supportés par les modules et une barre transversale 62 reliée à l'organe mobile 61a de ces vérins 61. La barre transversale 62 s'étend sensiblement perpendiculairement par rapport aux moyens formant lampe 3, ceci sur toute la largeur du banc correspondant. Les moyens d'entraînement 6 permettent d'entraîner les chariots sur toute la longueur des gaines des lampes

Les moyens assurant l'accrochage et le décrochage automatique du chariot 5 aux moyens d'entraînement sont illustrés plus en détail par la figure 2.

En référence à la figure 2, le chariot 5 porte deux ressorts 51a, 51b s'étendant à partir du chariot, en étant inclinés. Ces ressorts 51a, 51b définissent entre eux un espace dans lequel vient s'inscrire la barre transversale 62 portée par les vérins 61.

Les fonctions d'accrochage et de décrochage automatiques vont être explicitées plus en détail en référence au fonctionnement décrit ci-après.

Dans l'hypothèse selon laquelle un chariot 5 n'est pas accroché aux moyens d'entraînement 6, lorsque la barre 62 se déplace dans la direction indiquée par la flèche F_1 (en venant de la gauche sur la figure 2), celle-ci vient au contact du ressort 51a et contraint le ressort 51a à fléchir tel qu'indiqué par la flèche F'_1.

La barre 62 vient ensuite en butée contre le ressort 51b, tandis que le ressort 5 1a reprend sa position initiale, la barre 62 s'inscrivant alors dans l'espace défini par les deux ressorts 51a et 51b.

Ainsi, de par la raideur des ressorts 51a et 51b, le chariot 5 est solidaire de la barre 62. Dans l'hypothèse selon laquelle le racleur 4 est en situation de blocage, et engendre une résistance supérieure à la raideur de l'un des ressorts 51a, 51b, la

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barre 62 entraînée par l'organe mobile 61 a les vérins 61 (pour l'exemple, dans la direction indiquée par la flèche F_2) oblige le ressort correspondant (en l'occurrence le ressort 51a) à fléchir tel qu'indiqué par la flèche F'_2, jusqu'à ce que la barre 62 se dégage de son logement.

Les moyens d'entraînement peuvent alors poursuivre leur déplacement, le chariot 5 portant le racleur 4 en situation de blocage demeurant fixe.

On notera que la course des vérins 6 est plus grande que la longueur des poutres 1. Les vérins 61 peuvent ainsi emmener la barre 62 au-delà de l'extrémité de la poutre 1. Les ressorts se déclenchent ainsi tous au même endroit ce qui permet de libérer les modules. Ceux-ci peuvent alors être démontés et sortis du chenal puisque la barre 62 ne se trouve plus au-dessus des modules. Lors de la remise en route, les ressorts se replacent d'eux-mêmes en position de travail au premier passage de la barre 62 au-dessus des modules.

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REVENDICATIONS

1 - Dispositif de désinfection d'eau par rayonnement ultraviolet destiné à être installé dans un chenal ouvert d'une installation de désinfection d'eau par rayonnement ultra-violet, ledit dispositif incluant une pluralité de moyens longitudinaux formant lampes UV (3) constitués chacun d'une lampe UV et d'une gaine de protection en matériau transparent aux UV et étant répartis en une pluralité de modules verticaux formant un banc, chaque module étant constitué d'une poutre (1) à laquelle sont fixés au moins deux moyens formant supports (2) verticaux accueillant au moins une série desdits moyens formant lampes (3) prévus sous ladite poutre (1) les uns au-dessus des autres,
et au moins un chariot (5) monté mobile en translation sur chacune desdites poutres (1), lesdits chariots (5) portant des moyens de nettoyage (4) desdites gaines

caractérisé en ce qu'il comprend des moyens communs d'entraînement (6) de l'ensemble desdits chariots (5) non supportés par lesdits modules.

2 - Dispositif selon la revendication 1, caractérisé en ce que lesdits moyens communs d'entraînement (6) portent des moyens d'accrochage automatique desdits chariots (5) et/ou en ce que chacun desdits chariots (5) porte des moyens d'accrochage automatique auxdits moyens communs d'entraînement (6).

3 - Dispositif selon la a revendication 2, caractérisé en ce que lesdits moyens d'accrochage automatique sont conçus pour se décrocher lorsque ledit chariot et/ou lesdits moyens de nettoyage transmettent une résistance prédéterminée à l'encontre de la translation desdits moyens d'entraînement (6).

4 - Dispositif selon l'une quelconque des revendications 2 ou 3, caractérisé en ce que lesdits moyens d'accrochage automatique incluent des systèmes de liaison non permanente.

5 - Dispositif selon la revendication 4, caractérisé en ce que lesdits systèmes de liaison non permanente sont des ressorts (51a), (51b).

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6 - Dispositif selon l'une quelconque des revendications 1 à 5, caractérisé en ce que lesdits moyens communs d'entraînement (6) comprennent au moins un vérin (61) prévu sur au moins un coté dudit banc.

7. Dispositif selon la revendication 6 caractérisé en ce que lesdits moyens communs d'entraînement (6) comprennent deux vérins (61), disposés de part et d'autre dudit banc.

8. Dispositif selon la revendication 6 ou 7, caractérisé en ce que ledit vérin ou lesdits vérins (61) porte(nt) au moins une barre (62) s'étendant sensiblement perpendiculairement à l'axe longitudinal desdits moyens formant lampes (3).

9. Dispositif selon l'une quelconque des revendications 6 à 8 caractérisé en ce que la course du ou des vérins (61) est supérieure à la longueur desdits poutres (1)

10 -Installation de désinfection d'eau, caractérisée en ce qu'elle inclut au moins un dispositif de désinfection d'eau par rayonnement ultraviolet destiné à être installé dans un chenal ouvert d'une installation de désinfection d'eau par rayonnement ultra-violet, ledit dispositif incluant une pluralité de moyens longitudinaux formant lampes UV (3) constitués chacun d'une lampe UV et d'une gaine de protection en matériau transparent aux UV et étant répartis en une pluralité de modules verticaux formant un banc, chaque module étant constitué d'une poutre (1) à laquelle sont fixés au moins deux moyens formant supports (2) verticaux accueillant au moins une série desdits moyens formant lampes (3) prévus sous ladite poutre (1) les uns au-dessus des autres, et d'au moins un chariot (5) monté mobile en translation sur chacune desdites poutres (1), lesdits chariots portant des moyens de nettoyage (4) desdites gaines, caractérisé en ce que ledit dispositif comprend des moyens communs d'entraînement (6) de l'ensemble desdits chariots desdits chariots (5) non supportés par lesdits modules.

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1/2

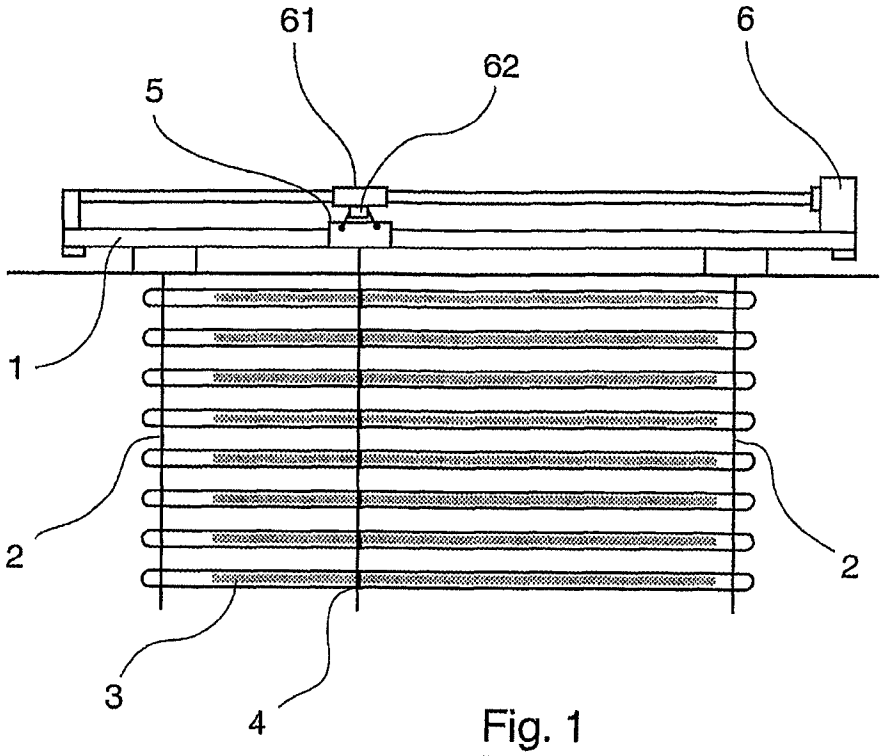


Fig. 1

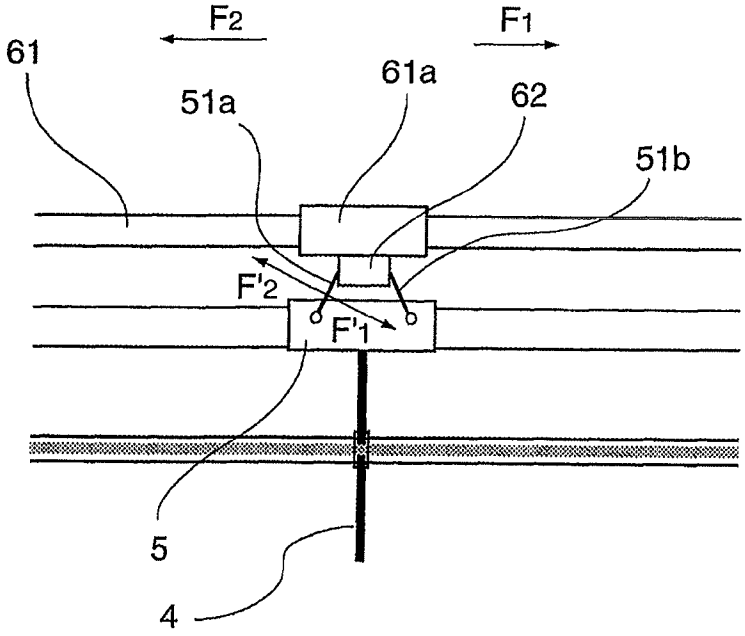


Fig. 2

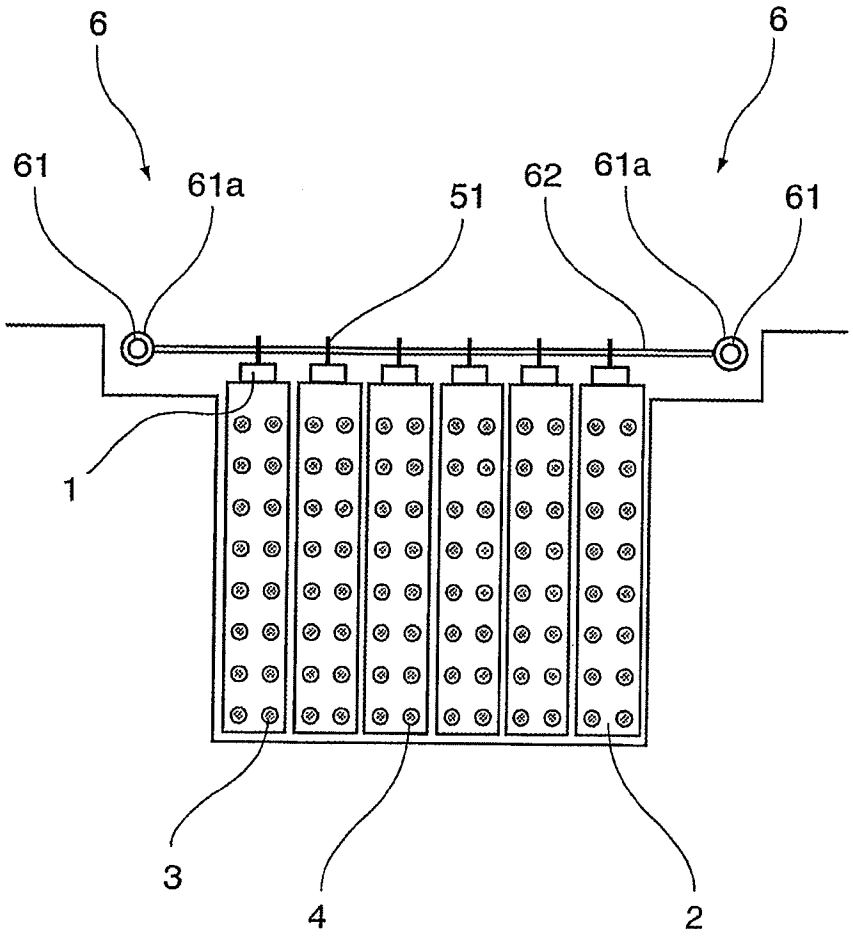


Fig. 3

INTERNATIONAL SEARCH REPORT

ternational Application No
PCT/FR2004/001217

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C02F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/51943 A (TROJAN TECHN INC) 8 September 2000 (2000-09-08) page 11, line 17 - line 22 page 14, line 24 - line 27 claims 1,6-8; figures 4,6,9	1-10
X	US 5 937 266 A (KADOYA MASAHIRO) 10 August 1999 (1999-08-10) column 6, line 60 - column 7, line 44; figures 3-5	1-10
A	DE 199 57 073 A (UEBERALL PETER) 31 May 2001 (2001-05-31) column 4, line 9 - column 5, line 6; figures 9,10,11A	1-10

-/--

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
5 October 2004	15/10/2004

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Liebig, T

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/FR2004/001217

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 231 820 B1 (WEDEKAMP HORST) 15 May 2001 (2001-05-15) the whole document	1-10
A	US 6 342 188 B1 (HESSE NICHOLAS HELMUT ET AL) 29 January 2002 (2002-01-29) the whole document	1-10
A	NL 1 013 864 C (BERSON MILIEUTECH) 21 June 2001 (2001-06-21) the whole document	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/FR2004/001217

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0051943	A	08-09-2000	US	6646269 B1	11-11-2003
			AU	2789300 A	21-09-2000
			WO	0051943 A1	08-09-2000
			CA	2371870 A1	08-09-2000
			DE	60004178 D1	04-09-2003
			DE	60004178 T2	22-04-2004
			EP	1159225 A1	05-12-2001
US 5937266	A	10-08-1999	NONE		
DE 19957073	A	31-05-2001	DE	19957073 A1	31-05-2001
US 6231820	B1	15-05-2001	DE	19653083 A1	25-06-1998
			AU	736149 B2	26-07-2001
			AU	6480298 A	15-07-1998
			CA	2275633 A1	25-06-1998
			WO	9827011 A1	25-06-1998
			EP	0946424 A1	06-10-1999
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US 6342188	B1	29-01-2002	AU	1022400 A	22-05-2000
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			NO	20012165 A	27-06-2001
NL 1013864	C	21-06-2001	NL	1013864 C2	21-06-2001

RAPPORT DE RECHERCHE INTERNATIONALE

Demande internationale No
rCT/FR2004/001217

A. CLASSEMENT DE L'OBJET DE LA DEMANDE
CIB 7 C02F1/32

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement)
CIB 7 C02F

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés)
EPO-Internal, PAJ, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERES COMME PERTINENTS

Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
X	WO 00/51943 A (TROJAN TECHN INC) 8 septembre 2000 (2000-09-08) page 11, ligne 17 - ligne 22 page 14, ligne 24 - ligne 27 revendications 1,6-8; figures 4,6,9	1-10
X	US 5 937 266 A (KADOYA MASAHIRO) 10 août 1999 (1999-08-10) colonne 6, ligne 60 - colonne 7, ligne 44; figures 3-5	1-10
A	DE 199 57 073 A (UEBERALL PETER) 31 mai 2001 (2001-05-31) colonne 4, ligne 9 - colonne 5, ligne 6; figures 9,10,11A	1-10

-/--

[X] Voir la suite du cadre C pour la fin de la liste des documents

[X] Les documents de familles de brevets sont indiqués en annexe

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"&" document qui fait partie de la même famille de brevets

Date à laquelle la recherche internationale a été effectivement achevée	Date d'expédition du présent rapport de recherche internationale
5 octobre 2004	15/10/2004

Nom et adresse postale de l'administration chargée de la recherche internationale	Fonctionnaire autorisé
Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Liebig, T

Formulaire PCT/ISA/210 (deuxième feuille) (Janvier 2004)

RAPPORT DE RECHERCHE INTERNATIONALE

nande Internationale No
rCT/FR2004/001217

C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS

Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
A	US 6 231 820 B1 (WEDEKAMP HORST) 15 mai 2001 (2001-05-15) le document en entier	1-10
A	US 6 342 188 B1 (HESSE NICHOLAS HELMUT ET AL) 29 janvier 2002 (2002-01-29) le document en entier	1-10
A	NL 1 013 864 C (BERSON MILIEUTECH) 21 juin 2001 (2001-06-21) le document en entier	1-10

RAPPORT DE RECHERCHE INTERNATIONALE

Renseignements re aux membres de familles de brevets

mande internationale No
rCT/FR2004/001217

Document brevet cité au rapport de recherche		Date de publication	Membre(s) de la famille de brevet(s)		Date de publication
WO 0051943	A	08-09-2000	US	6646269 B1	11-11-2003
			AU	2789300 A	21-09-2000
			WO	0051943 A1	08-09-2000
			CA	2371870 A1	08-09-2000
			DE	60004178 D1	04-09-2003
			DE	60004178 T2	22-04-2004
			EP	1159225 A1	05-12-2001
US 5937266	A	10-08-1999	AUCUN		
DE 19957073	A	31-05-2001	DE	19957073 A1	31-05-2001
US 6231820	B1	15-05-2001	DE	19653083 A1	25-06-1998
			AU	736149 B2	26-07-2001
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			CA	2275633 A1	25-06-1998
			WO	9827011 A1	25-06-1998
			EP	0946424 A1	06-10-1999
			JP	2001506917 T	29-05-2001
US 6342188	B1	29-01-2002	AU	1022400 A	22-05-2000
			CA	2349199 A1	11-05-2000
			WO	0026144 A1	11-05-2000
			EP	1159226 A1	05-12-2001
			NO	20012165 A	27-06-2001
NL 1013864	C	21-06-2001	NL	1013864 C2	21-06-2001

In response to the December 17, 2010 Office Action, please enter the following:

I. Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this document.

II. Remarks begin on page 9 of this document.

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).

2. (Currently Amended) A lamp device having a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, ends of ~~the first and second elongate~~ all of the electrical connectors of the lamp device being in substantial alignment along the line orthogonal to the longitudinal axis.

3. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. (Previously Presented) The lamp device defined in Claim 2, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein each of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system, and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein each of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. (Currently Amended) The lamp device defined in Claim 2 [[1]], comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

24. (New) A lamp device having a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, none of the elongate electrical connectors of the lamp device being staggered with respect to the longitudinal axis.

25. (New) A lamp device having a longitudinal axis, and comprising:

a first pair of elongate electrical connectors and a second pair of elongate electrical connectors, the first pair of elongate electrical connectors and the pair of elongate electrical connectors being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the elongate electrical connectors configured to form an oblique angle with respect to the longitudinal axis, ends of all of the electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis.

II. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-25 are pending in the application. Claims 2, 24, and 25 are independent.

The undersigned and Applicants' Canadian representative, Mr. Omar Nassif, would like to thank Examiners Nguyen and Abrams for the interview of March 30, 2011.

Claims 16-20 have been amended to overcome the objection kindly noted by the Examiner.

Applicants thank the Examiner for the indication of allowable subject matter in Claims 7-8, 10-11, 13-14, and 18.

Claims 2-6, 9, 12, 15-17 and 20-23 were rejected as being obvious over Ciancanelli, Titchner, and Sabo, for the reasons noted at pages 3-8 of the Office Action. Applicants respectfully traverse all art rejections.

As discussed at the interview, and as conveniently depicted in the embodiment of Fig. 11, independent Claim 2 recites a novel combination of structure and/or function whereby a lamp device (having a longitudinal axis) includes a first elongate electrical connector and a second elongate electrical connector. The first elongate electrical connector (e.g., 306 in Fig. 11) and the second elongate electrical connector (e.g., 308 in Fig. 11) are aligned in a spaced relationship with respect to a line (e.g., E in Fig. 11) orthogonal to the longitudinal axis (e.g., A in Fig. 11). Each of the first elongate electrical connector and the second elongate connector is configured to form an oblique angle with

respect to the longitudinal axis. Notably, the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line (e.g., E in Fig. 11) orthogonal to the longitudinal axis.

As discussed at the interview, none of Ciancanelli, Titchner, and Sabo discloses or suggests such structure. In particular, none discloses that the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line orthogonal to the longitudinal axis. In Ciancanelli, only two of the four electrical connectors of the lamp device are in substantial alignment along the line orthogonal to the longitudinal axis, thus failing to meet the limitation of the ***ends of all of the electrical connectors of the lamp device***.

At the interview, some discussion was had as to the meaning and scope of the claimed term: "ends of ***all*** of the electrical connectors of the lamp device." This claim limitation will require that any infringing device (and thus any invalidating prior art) must have ***all*** connector ends aligned along the same line – i.e., not just the recited first elongate electrical connector and second elongate electrical connector. For example, none of the Ciancanelli lamps could be accused of infringing such a claim since the Ciancanelli connectors align along two separate lines, not one. By the same token then, the Ciancanelli lamps can not invalidate Claim 2 since the ends of all the electrical connectors are not aligned along one line.

The Examiner expressed some concern that "all" in Claim 2 may be construed as limited to the previously-recited first and second connectors and no others. Applicants pointed out, however, that "all" could not be limited to only two connectors (i)

because Claim 2 is an open-ended "comprising" claim, and (ii) because the "all" limitation applies to the dependent claims as well, for example, Claim 20 which recites first and second ***pairs*** of electrical connectors. Further, the World English Dictionary defines "all" as: "the whole quantity or amount of; totality of; every one of a class:" see http://dictionary.reference.com/browse/all. Accordingly, the claim term "the ends of all of the electrical connectors of the lamp device are in substantial alignment along the line orthogonal to the longitudinal axis" is properly construed as requiring that the end of every connector in the lamp device be aligned along the same line. As properly construed, Ciancanelli can not invalidate Claim 2 since it fails to disclose or suggest at least this feature.

Independent Claim 24 recites, *inter alia*, that "none of the elongate electrical connectors of the lamp device being staggered with respect to the longitudinal axis." By similar reasoning as discussed above, Ciancanelli fails to disclose or suggest a lamp device in which none of the elongate electrical connectors of the lamp device are staggered with respect to the longitudinal axis. Thus, Claim 24 is also patentable over the cited art.

Independent Claim 25 recites that the "ends of all of the [four recited] electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis." At the interview, it appeared that the Examiner was of the opinion that such a claim would be allowable over Ciancanelli. Thus, Applicants respectfully submit that all claims are allowable over the cited art.

Should the Examiner have any comments/suggestions/observations regarding the subject application, she is respectfully encouraged to telephone the undersigned at (202) 625-3507.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**130**

Electronic Acknowledgement Receipt

EFS ID:	9901060
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	18-APR-2011
Filing Date:	04-APR-2008
Time Stamp:	15:38:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$130
RAM confirmation Number	1964
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2011-04-18-Amendment-EOT-213202-00595.pdf	352736 e4ffdec1960d2032e5ca290db675cf1096a534a7	yes	12

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Extension of Time	1	1
Amendment/Req. Reconsideration-After Non-Final Reject	2	2
Claims	3	8
Applicant Arguments/Remarks Made in an Amendment	9	12

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30591 6ca9abb32932e6363f69117d614137e7dd5ce176	no	2

Warnings:

Information:

Total Files Size (in bytes):	383327

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
Joseph ELKU et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	April 18, 2011 (Monday)

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

AMENDMENT AND PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to extend the time for response to the December 17, 2010 Office Action to Monday, April 18, 2011. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

In response to the December 17, 2010 Office Action, please enter the following:

I. Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this document.

II. Remarks begin on page 9 of this document.

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).

2. (Currently Amended) A lamp device having a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, ends of ~~the first and second elongate~~ all of the electrical connectors of the lamp device being in substantial alignment along the line orthogonal to the longitudinal axis.

3. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. (Previously Presented) The lamp device defined in Claim 2, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein each of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system, and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. (Currently Amended) The lamp device defined in Claim 2 [[1]], wherein each of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. (Currently Amended) The lamp device defined in Claim 2 [[1]], comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

24. (New) A lamp device having a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, none of the elongate electrical connectors of the lamp device being staggered with respect to the longitudinal axis.

25. (New) A lamp device having a longitudinal axis, and comprising:

a first pair of elongate electrical connectors and a second pair of elongate electrical connectors, the first pair of elongate electrical connectors and the pair of elongate electrical connectors being aligned in a spaced relationship with respect to a line orthogonal to the longitudinal axis, each of the elongate electrical connectors configured to form an oblique angle with respect to the longitudinal axis, ends of all of the electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis.

II. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-25 are pending in the application. Claims 2, 24, and 25 are independent.

The undersigned and Applicants' Canadian representative, Mr. Omar Nassif, would like to thank Examiners Nguyen and Abrams for the interview of March 30, 2011.

Claims 16-20 have been amended to overcome the objection kindly noted by the Examiner.

Applicants thank the Examiner for the indication of allowable subject matter in Claims 7-8, 10-11, 13-14, and 18.

Claims 2-6, 9, 12, 15-17 and 20-23 were rejected as being obvious over Ciancanelli, Titchner, and Sabo, for the reasons noted at pages 3-8 of the Office Action. Applicants respectfully traverse all art rejections.

As discussed at the interview, and as conveniently depicted in the embodiment of Fig. 11, independent Claim 2 recites a novel combination of structure and/or function whereby a lamp device (having a longitudinal axis) includes a first elongate electrical connector and a second elongate electrical connector. The first elongate electrical connector (e.g., 306 in Fig. 11) and the second elongate electrical connector (e.g., 308 in Fig. 11) are aligned in a spaced relationship with respect to a line (e.g., E in Fig. 11) orthogonal to the longitudinal axis (e.g., A in Fig. 11). Each of the first elongate electrical connector and the second elongate connector is configured to form an oblique angle with

respect to the longitudinal axis. Notably, the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line (e.g., E in Fig. 11) orthogonal to the longitudinal axis.

As discussed at the interview, none of Ciancanelli, Titchner, and Sabo discloses or suggests such structure. In particular, none discloses that the ***ends of all of the electrical connectors of the lamp device*** are in substantial alignment along the line orthogonal to the longitudinal axis. In Ciancanelli, only two of the four electrical connectors of the lamp device are in substantial alignment along the line orthogonal to the longitudinal axis, thus failing to meet the limitation of the ***ends of all of the electrical connectors of the lamp device***.

At the interview, some discussion was had as to the meaning and scope of the claimed term: "ends of ***all*** of the electrical connectors of the lamp device." This claim limitation will require that any infringing device (and thus any invalidating prior art) must have ***all*** connector ends aligned along the same line – i.e., not just the recited first elongate electrical connector and second elongate electrical connector. For example, none of the Ciancanelli lamps could be accused of infringing such a claim since the Ciancanelli connectors align along two separate lines, not one. By the same token then, the Ciancanelli lamps can not invalidate Claim 2 since the ends of all the electrical connectors are not aligned along one line.

The Examiner expressed some concern that "all" in Claim 2 may be construed as limited to the previously-recited first and second connectors and no others. Applicants pointed out, however, that "all" could not be limited to only two connectors (i)

because Claim 2 is an open-ended "comprising" claim, and (ii) because the "all" limitation applies to the dependent claims as well, for example, Claim 20 which recites first and second ***pairs*** of electrical connectors. Further, the World English Dictionary defines "all" as: "the whole quantity or amount of; totality of; every one of a class:" see http://dictionary.reference.com/browse/all. Accordingly, the claim term "the ends of all of the electrical connectors of the lamp device are in substantial alignment along the line orthogonal to the longitudinal axis" is properly construed as requiring that the end of every connector in the lamp device be aligned along the same line. As properly construed, Ciancanelli can not invalidate Claim 2 since it fails to disclose or suggest at least this feature.

Independent Claim 24 recites, *inter alia*, that "none of the elongate electrical connectors of the lamp device being staggered with respect to the longitudinal axis." By similar reasoning as discussed above, Ciancanelli fails to disclose or suggest a lamp device in which none of the elongate electrical connectors of the lamp device are staggered with respect to the longitudinal axis. Thus, Claim 24 is also patentable over the cited art.

Independent Claim 25 recites that the "ends of all of the [four recited] electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis." At the interview, it appeared that the Examiner was of the opinion that such a claim would be allowable over Ciancanelli. Thus, Applicants respectfully submit that all claims are allowable over the cited art.

Should the Examiner have any comments/suggestions/observations regarding the subject application, she is respectfully encouraged to telephone the undersigned at (202) 625-3507.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with $0 paid	1253	1	1110	1110

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**1110**

Electronic Acknowledgement Receipt

EFS ID:	9900821
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	18-APR-2011
Filing Date:	04-APR-2008
Time Stamp:	15:27:22
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		2011-04-18-Amendment-EOT-213202-00595.pdf	352736 e4ffdec1960d2032e5ca290db675cf1096a534a7	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Extension of Time	1	1
	Amendment/Req. Reconsideration-After Non-Final Reject	2	2
	Claims	3	8
	Applicant Arguments/Remarks Made in an Amendment	9	12

Warnings:					
Information:					
2	Fee Worksheet (PTO-875)	fee-info.pdf	30590 6ec595237eb78d9450434b699b0c1f2c3d583214	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	383326	

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) :	Examiner: NGUYEN, Phuongchi T.
Joseph ELKU et al.	) :	Group Art Unit: 2839
Application No.: 12/098,363	) :	Confirmation No.: 2154
Filed: April 4, 2008	) :	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	) :)	April 18, 2011 (Monday)

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

AMENDMENT AND PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to extend the time for response to the December 17, 2010 Office Action to Monday, April 18, 2011. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☒ To be Mailed
12/098,363	04/04/2008	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $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).						
☐ 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	04/18/2011	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 24	Minus	** 22	= 2	X $ =		OR	X $52=	104
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	**104**

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/NICHELE PETERSON/

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 12/17/2010

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

MAIL DATE	DELIVERY MODE
12/17/2010	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONG T. NGUYEN	2839	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *10/28/10 (RCE)*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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

4)☒ Claim(s) *2-23* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *2-6,9,12,15-17 and 19-23* is/are rejected.

7)☒ Claim(s) *7,8,10,11,13,14 and 18* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *04 April 2008* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 28, 2010 has been entered.

The terminal disclaimer filed on October 28, 2010 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of the full statutory term prior patent of 7,390,225 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Applicant's amendment of October 28, 2010 is acknowledged. It is noted that claim 1 is previously canceled. New claim 1 is amended.

Claim Objections

2. Claims 16-20 are objected to because of the following informalities:

Claims 16-20 are depended on the canceled claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 103

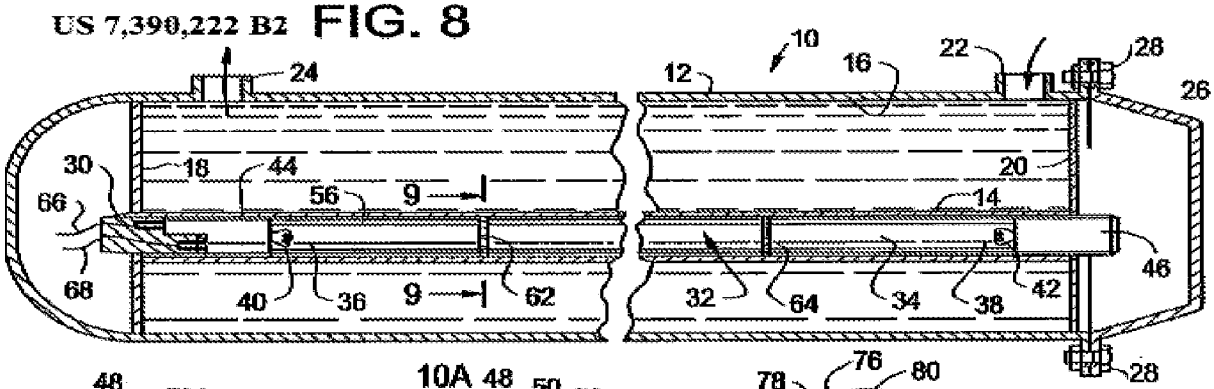
3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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

4. Claims 2-6, 9, 12, 15-17 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clancanelli et al (US7390222) in view of Titchener (US7033203).

Regarding to claim 2, Clancanelli et al disclose (figs. 8, 10A, 10 and 15) a lamp device (32) having a longitudinal axis, and comprising a first elongate electrical connector (48) and a second elongate electrical connector (50), the first elongate electrical connector (48) and the second elongate electrical connector (50) being aligned in a spaced relationship with respect to a line (A1) orthogonal to the longitudinal axis (A2), each of the first elongate electrical connector (48) and the second elongate connector (50) configured to form a connection with respect to the longitudinal axis (A2); ends (E1, E2) of the first (48) and second elongate electrical connector (50) being in substantial alignment along the line (A1) orthogonal to the longitudinal axis (A2).

Clancanelli disclose the invention generally all as claimed, but does not show the first connector and the second connector forming an oblique angle with respect to the longitudinal axis. However, Titchener teaches the first connector (5a) and the second connector (5c) forming an oblique angle with respect to the longitudinal axis (A2c)(figs 1 and 3a). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connection between the first connector and the second connector of Clancanelli et al by forming an oblique angle respect to the longitudinal axis as taught by Titchener or Sato to prevent disconnection between the two connectors and the mating connector when the unintentional forces applied on the two connector bodies/mating connector or two cables (abstract, lines 1-4).



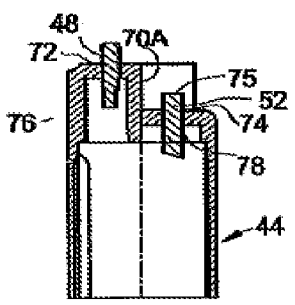


FIG. 10A

P peak
V: valey

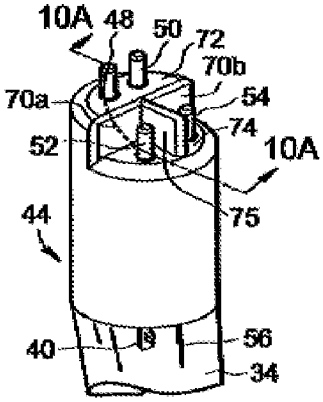


FIG. 10

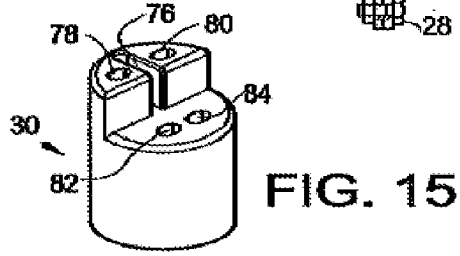


FIG. 15

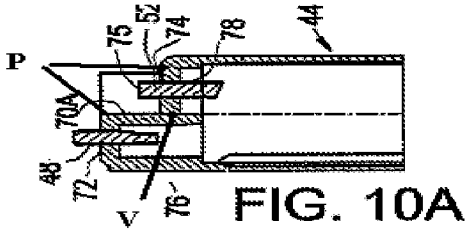


FIG. 10A

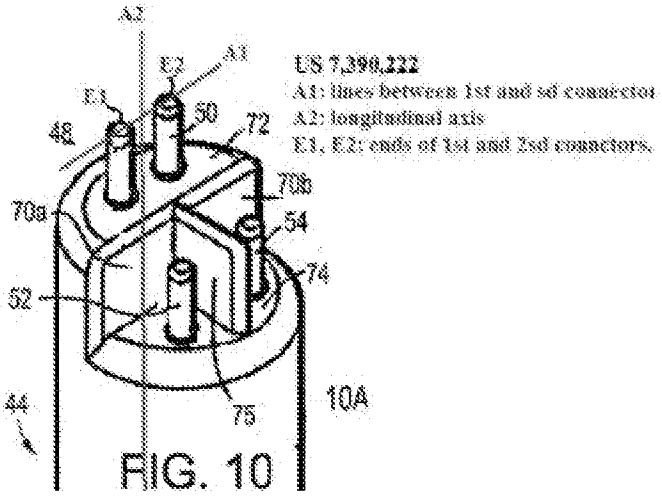


FIG. 10

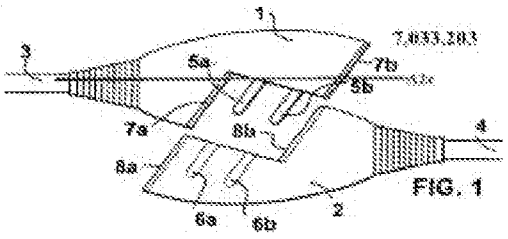


FIG. 1

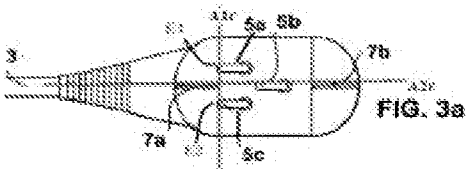


FIG. 3a

Regarding to claim 3, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (48) and the second elongate electrical connector (50) are substantially parallel with respect to one another.

Regarding to claim 4, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (48) and the second elongate connector (50) are disposed in a base portion (44) at one end of the lamp device (32).

Regarding to claim 5, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises an undulating (wave) shape (fig. 10A).

Regarding to claim 6, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at least one peak (P) and at least one valley (V/70a/70b).

Regarding to claim 9, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises a single peak (P) and a single valley (V).

Regarding to claim 12, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at a plurality of peaks (P, P) and a plurality of valleys (70a, 70b).

Regarding to claim 15, Clancanelli et al disclose the lamp device further comprising an elongate radiation emitting cavity comprising the longitudinal axis (col. 6, lines 35-42).

Regarding to claim 16, Clancanelli et al disclose the lamp device wherein the second elongate electrical connector (50) comprises a male portion of a male-female connection system (fig. 10A).

Regarding to claim 17, Clancanelli et al disclose the lamp device wherein both of the first elongate electrical connector (48) and the second elongate electrical connector (50) comprises a male portion (of 48+50) of a male-female connection system (figs. 11, 12 or 24).

Regarding to claim 20, Clancanelli et al disclose the lamp device comprising a pair of first elongate electrical connectors (52, 54) and a pair of second elongate electrical connectors (48, 50).

Regarding to claim 20, Clancanelli et al disclose the invention generally all as claimed, but does not show a pair of first and second elongate electrical connectors. It would have been obvious to a person

having ordinary skill at the time the invention was made to modify the connector of Clancanelli et al by adding a plurality of first and second elongate electrical connectors to expand a connector; since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v.Bemis Co., 193 USPQ 8.

Regarding to claims 21-23, the pair of the first and second elongate electrical connectors are rejected for the same reason as clam 20.

Allowable Subject Matter

5. Claims 7-8, 10,-11, 13-14 and 18 are 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.

6. The following is a statement of reasons for the indication of allowable subject matter:

Regarding to claims 7-8, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the at least one peak and both the at least one valley with all limitation as claimed above.

Regarding to claim 10, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the single peak or the single valley with all limitation as claimed above.

Regarding to claim 11, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to both of the single peak and the single valley with all limitation as claimed above.

Regarding to claims 13-14, the prior art fail to teaches or suggests the lamp device wherein the first and second elongate electrical connectors are offset with regard to the plurality of peaks or the plurality of valleys with all limitation as claimed above.

Regarding to claim 18, the prior art fail to teaches or suggests the lamp device wherein the second elongate electrical connector comprises a male portion of a male-female connection system and the first elongate electrical connector comprises a female portion of a male-female connection system with all limitation as claimed above.

Response to Arguments

7. Applicant's arguments with respect to claim1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG NGUYEN whose telephone number is (571)272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

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.

/P. N./

Art Unit 2839

/T C Patel/

Supervisory Patent Examiner, Art Unit 2839

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
12098363	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/17/2008	08/19/2009	12/10/2010						
	1	✓	-	-						
	2		✓	✓						
	3		✓	✓						
	4		✓	✓						
	5		✓	✓						
	6		✓	✓						
	7		✓	O						
	8		✓	O						
	9		✓	✓						
	10		✓	O						
	11		✓	O						
	12		✓	✓						
	13		✓	O						
	14		✓	O						
	15		✓	✓						
	16		✓	✓						
	17		✓	O						
	18		✓	✓						
	19		✓	✓						
	20		✓	✓						
	21		✓	✓						
	22		✓	✓						
	23		✓	✓						

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REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for continued examination of an utility or plant application filed on or after June 8, 1995.
See The American Inventors Protection Act of 1999 (AIPA).

Application Number	12/098,363
Filing Date	April 4, 2008
First Named Inventor	Joseph Elku, et al.
Group Art Unit	2839
Examiner Name	Phuongchi T. Nguyen
Attorney Docket Number	213202-00595

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

NOTE: 37 C.F.R. § 1.114 is effective on May 29, 2000. If the above-identified application was filed prior to May 29, 2000, applicant may wish to consider filing a continued prosecution application (CPA) under 37 C.F.R. § 1.53(d) (PTO/SB/29) instead of a RCE to be eligible for the patent term adjustment provisions of the AIPA. See Changes to Application Examination and Provisional Application Practice, Final Rule, *65 Fed. Reg. 50092 (Aug. 16, 2000);* Interim Rule, *65 Fed. Reg. 14865 (Mar. 20, 2000), 1233 Off. Gaz. Pat. Office 47 (Apr. 11, 2000), which established RCE practice.*

1. Submission required under 37 C.F.R. § 1.114
   - a. ☐ Previously submitted
     - i. ☐ Consider the Amendment(s)/reply under 37 C.F.R. § 1.116
     - ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on
     - iii. ☐ Other
   - b. ☒ Enclosed
     - i. ☒ RCE Submission
     - ii. ☐ Affidavit(s)/Declaration(s)
     - iii. ☐ Information Disclosure Statement (IDS)
     - iv. ☐ Other:
2. Miscellaneous
   - a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R. § 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 C.F.R. § 1.17(i) **required**)
   - b. ☐ Other
3. Fees — The RCE fee under 37 C.F.R. § 1.17(e) is required by 37 C.F.R. § 1.114 when the RCE is filed.
   - a. ☒ The Director is hereby authorized to charge the following fee to Deposit Account No. 50-1710
     - i. ☒ RCE fee required under 37 C.F.R. § 1.17(e)
     - ii. ☐ Extension of time fee (37 C.F.R. §§ 1.136 and 1.17)
     - iii. ☐ Other:
   - b. ☐ Check in the amount of $___ enclosed
   - c. ☐ Payment by credit card (Form PTO-2038 enclosed)

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (*Print/Type*)	Richard P. Bauer	Registration No. (*Attorney/Agent*)	31,588
Signature	/Richard P. Bauer/	*Date*	October 28, 2010

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, Box RCE, P.O. Box 1450, Alexandria, VA 22314-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on:

Name (*Print/Type*)			
Signature		*Date*	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND Fees and Completed Forms to the following address: Commissioner for Patents, Box RCE, Alexandria, VA 22313-1450.

Form #161

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) :	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	) :	Group Art Unit: 2839
Application No.: 12/098,363	) :	Confirmation No.: 2154
Filed: April 4, 2008	) :	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	) :)	October 28, 2010

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

RCE SUBMISSION

Sir:

In further response to the August 27, 2009 Office Action, please enter the following:

I. Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

II. Remarks begin on page 7 of this document.

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).

2. (Currently Amended) A lamp device having ~~comprising~~ a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to ~~along~~ the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, ends of the first and second elongate electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis.

3. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. (Previously Presented) The lamp device defined in Claim 2, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. (Previously Presented) The lamp device defined in Claim 1, wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. (Currently Amended) The lamp device defined in Claim 1, wherein each ~~both~~ of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. (Currently Amended) The lamp device defined in Claim 1, wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system, and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. (Currently Amended) The lamp device defined in Claim 1, wherein each ~~both~~ of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. (Previously Presented) The lamp device defined in Claim 1, comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

II. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-23 are pending in the application. Claim 2 is the sole independent claim.

The undersigned would like to thank Examiners Nguyen and Abrams for the cordial and productive telephone interview of October 27, 2010. The Examiners' helpful comments and suggestions were instrumental in preparing this response.

Claims 2-23 were rejected as being obvious over Ciancanelli, Titchner, and Sabo, for the reasons noted at pages 3-8 of the Office Action.

As discussed at the interview, and as best depicted in the embodiment of Fig. 11, independent Claim 2 recites a novel combination of structure and/or function whereby a lamp device (having a longitudinal axis) includes a first elongate electrical connector and a second elongate electrical connector. The first elongate electrical connector (e.g., 306 in Fig. 11) and the second elongate electrical connector (e.g., 308) are aligned in a spaced relationship with respect to a line (e.g., E) orthogonal to the longitudinal axis (e.g., A) . Each of the first elongate electrical connector and the second elongate connector is configured to form an oblique angle with respect to the longitudinal axis. Notably, the ends of the first and second elongate electrical connectors are in substantial alignment along the line (e.g., E) orthogonal to the longitudinal axis.

As discussed at the interview, none of Ciancanelli, Titchner, and Sabo discloses or suggests such structure. In particular, none discloses that the ends of the first

and second elongate electrical connectors are in substantial alignment along the line orthogonal to the longitudinal axis.

At the interview, the Examiner kindly directed Applicants' attention to USP 3,551,879 (Waller). However, Waller discloses structure similar to Titchner, and specifically fails to disclose that the ends of the first and second elongate electrical connectors are in substantial alignment along a line orthogonal to the connector's longitudinal axis.

Should the Examiner have any comments/suggestions/observations regarding the subject application, she is respectfully encouraged to telephone the undersigned at (20) 625-3507.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/

Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	1801	1	810	810
		Total in USD ($)		**810**

Electronic Acknowledgement Receipt

EFS ID:	8723771
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	28-OCT-2010
Filing Date:	04-APR-2008
Time Stamp:	15:37:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$810
RAM confirmation Number	2013
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	2010-10-28-RCE-Transmittal-213202-00595.pdf	85113 cd60d5ca01a283e9be2d0325bdd14e8ef2361ee3	no	1
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2		2010-10-28-RCE-Submission-213202-00595.pdf	245122 ba044b3a7cbc596a528ba19daef1babdbf97c4fc	yes	8

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment Submitted/Entered with Filing of CPA/RCE	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	8

Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	30806 b4d87d4cb99c067572c7b9816ad4e07f680fe8a1	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	361041		

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.

Interview Summary	Application No.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONGCHI T. NGUYEN	2839	

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

(1) *PHUONGCHI T. NGUYEN*. (3)*Mr. Richard P. Bauer*.

(2) *Mr. Neil Abrams*. (4)____.

Date of Interview: *27 October 2010*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

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

Claim(s) discussed: ____.

Identification of prior art discussed: *None*.

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: ____

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Discussed proposed independent claim 2 and compared to prior art. Ciancanelli/Ppalent.

/Nguyen C/	

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Katten
Katten Muchin Rosenman LLP

2900 K Street NW
North Tower - Suite 200
Washington, DC 20007-5118
202 625 3500 tel
202 298 7570

Facsimile

To	Company	Fax Number	Phone Number
1. Examiner Nguyen	U.S. Patent and Trademark Office	571-273-8300	

Date	Client/Matter Number
October 21, 2010	
From	**Attorney Number**
Debbie Warren	33549
Phone	**Fax**
202.625.3509	202.298.7570

Total number of pages, including cover letter: 2
If you do not receive all of the pages, please call Debbie Warren at: 202.625.3509

Comments

Examiner Nguyen: Attached is a suggested claim amendment for Claim 2 for U.S. Patent Appln. No. 12/098,363 (our ref. 213202-00595). Please contact Rick Bauer with any questions at 202-625-3507 or by e-mail at Richard.Bauer@kattenlaw.com.

For Messenger Department Use Only

Your fax has been sent. Attached is your original

Date *Time*

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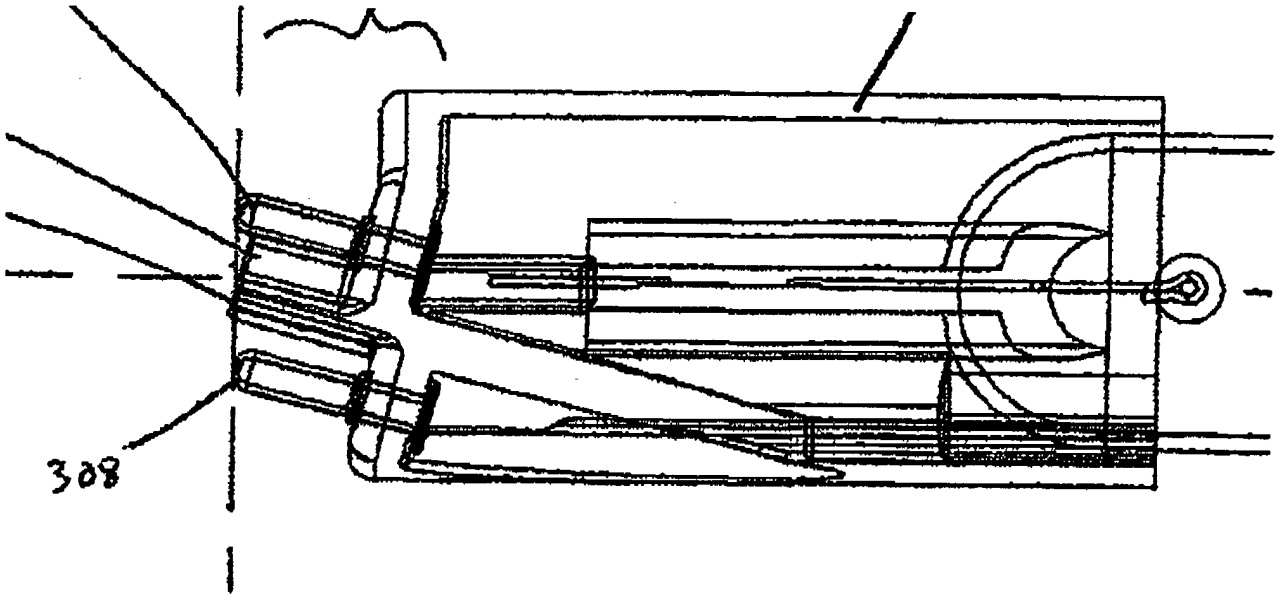
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Warren, Debbie E.

2. (Currently Amended) A lamp device having ~~comprising~~ a longitudinal axis, and comprising:

a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship with respect to a line orthogonal to ~~along~~ the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis, ends of the first and second elongate electrical connectors being in substantial alignment along the line orthogonal to the longitudinal axis.



APPELLANTS' BRIEF ON APPEAL

Pursuant to 37 CFR 41.37, submitted herewith is Appellants' Brief on Appeal.

37 CFR 41.20(b)(2) FEE

Please also charge Deposit Account 50-1710 for payment of the Appeal Brief fee. Any additional fee required, and any overpayments, should also be charged to or credited to Deposit Account No. 50-1710.

37 CFR 41.37(c)(1)(i) REAL PARTY IN INTEREST

The real party in interest to the above-identified application and to this appeal is Trojan Technologies, having a place of business at 3020 Gore road, London, Ontario, Canada N5V 4T7.

37 CFR 41.37(c)(1)(ii)) RELATED APPEALS AND INTERFERENCES

None.

37 CFR 41.37(c)(1)(iii) STATUS OF CLAIMS

Claims 2-23 are pending in the application. Claim 2 is the sole independent claim.

Claims 2-23 have been finally rejected under 35 U.S.C. § 103(a) as being unpatentable over USPs 7,390,222 (Ciancanelli), 7,033,203 (Titchner), and 5,645,449 (Sabo).

Appellants appeal this final rejection.

Claims 2-23 are reproduced in the Appendix submitted herewith.

37 CFR 41.37(c)(1)(iv) STATUS OF AMENDMENTS

Subsequent to the final Office Action, Appellants filed an Amendment on December 4, 2010, which has been entered per the Advisory Action of January 12, 2010.

37 CFR 41.37(c)(1)(v) SUMMARY OF THE CLAIMED SUBJECT MATTER

The present invention defined in independent Claim 2 relates to a lamp device comprising

a longitudinal axis ([0031] Fig. 3),

a first elongate electrical connector ([0031] Fig. 3) and

a second elongate electrical connector ([0031] Fig. 3),

the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship along the longitudinal axis ([0031] Fig. 3),

each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis ([0031] Fig. 3).

37 CFR 41.37(c)(1)(vi) GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

The final rejection of Claims 2-23 under 35 U.S.C. § 103(a) as being unpatentable over USPs 7,390,222 (Ciancanelli), 7,033,203 (Titchner), and 5,645,449 (Sabo).

37 CFR 41.37(c)(1)(vii) ARGUMENT

The argument will be very brief.

The sole issue on appeal is whether Applicants are entitled to claim priority benefit of USSN 60/693,502, filed June 24, 2005. If so-entitled, USP 7,390,222 (Ciancanelli), filed February 27, 2006 is removed as a reference.

In the February 16, 2010 Advisory Action, the Examiner states [***commentary inserted in brackets below***]:

> International Filing Dates are not waived because of holidays [***of course they are***].
>
> Applicants filed 60/693,502 in the United States of America on June 24, 2005. Applicant subsequently filed PCT/CA2006/001040 on June 27, 2006. The act of filing the US provisional application does not create any "time limits" under the Patent Cooperation Treaty [***of course it does***]. The Canadian documentation supplied, which comes from PCT Rule 80, Computation of Time Limits, points out:
>
> "If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day...such period shall expire on a subsequent day; the period shall expire on the next subsequent day on which none of the said four circumstances exists."
>
> Since the filing of the US provisional application does not create a WIPO time limit [***of course it does***] nor establish any period for reply in any national Office or intergovernmental organization, PCT Rule 80 does not apply [***of course it does***] (see note 1), there is no period that can be extended due to the conditions listed. The International Filing Date is the International Filing Date, and applicant's International Filing Date remains June 27, 2006, and as such is more than one year after the filing of the US provisional application (see note 2). Thus, applicant is not entitled to the benefit of priority to US 60/693,502.

> Expiration of US Provisional applications are not extended because of Canadian holidays.
>
> Further, Public Law 106-113 amended 35 U.S.C. 119(e)(3) to extend the period of pendency of a provisional application to the next succeeding business day if the day that is 12 months after the filing date of a provisional application falls on a Saturday, Sunday, or a Federal Holiday within the District of Columbia. See MPEP 201.04(b). Thus the provisional application expired Monday, June 26, 2006. This day is not extended because of St. John the Baptist Day in Canada. 35 U.S.C. 363 states:
>
> "An international application designating the United States shall have the effect, from its international filing date under article 11 of the treaty, of a national application for patent regularly filed in the Patent and Trademark Office except as otherwise provided in section 102(e) of this title."
>
> Since PCT/CA2006/001 040 was not filed until June 27,2006, the two applications were not co-pending. Thus, applicant is not entitled to the benefit of priority to US 60/693,502 (see note 3)..
>
> Note 1 - Refer to Rule 82bis for the meaning of "time limit" in this context. See also 26bis.2 and 26bis.3 wherein the expression "priority period" is used in distinction from "time limit." The priority period is not subject to the provisions of Rule 80.
>
> Note 2 - Refer to PCT Rule 20 (20.2a). The date of receipt of the application papers is the international filing date of the international application.
>
> Note 3 - It appears that the time period for restoring the Right of Priority under 26bis.3 has lapsed.

The Examiner is wrong, and it is hoped that more senior Examiners will correct him in the Appeals Conference.

The Examiner incorrect in asserting that there is no entitlement to priority. USSN 60/693,502 was filed on June 24, 2005. The Examiner is correct that the deadline for filing PCT/CA2006/001040 was June 24, 2005, a Saturday. However, June 24 is annual statutory

holiday (St. John Baptist Day) in the Province of Quebec (location of the Canadian Intellectual Property Office (CIPO)). As you will see from the attached notice from CIPO (see the last page), since June 24, 2006 fell on a Saturday, CIPO was closed on the following Monday, June 26, which means that the actual deadline fell on Tuesday, June 27, 2006 - i.e., the filing date of the PCT application. Therefore, the priority claim is valid.

The attached specifically quotes PCT Rule 80.5 bis, reproduced below for the Board's convenience.

> Rule 80.5 Expiration on a Non-Working Day or Official Holiday
>
> If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:
>
> (i) on which such Office or organization is not open to the public for the purposes of the transaction of official business;
>
> (ii) on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
>
> (iii) which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
>
> (iv) which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;
>
> the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Accordingly, the claim to priority is proper, USP 7,390,222 (Ciancanelli) is removed as a reference, and Claims 2-23 are in condition for allowance.

For the above reasons, Appellants submit that the rejection of Claims 2-23 under 35 U.S.C. § 103(a) should be withdrawn.

CONCLUSION

In view of the above, Appellants submit that the rejection of Claims 2-23 is improper. Accordingly, reversal of the final rejection, allowance of the rejected claims, and issuance of the subject patent application are respectfully requested.

Appellants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Appellants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
2900 K Street, N.W.
North Tower
Suite 200
Washington, D.C. 20007-5118

37 CFR 41.37(c)(1)(viii) CLAIMS APPENDIX

2. A lamp device comprising a longitudinal axis, a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship along the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis.

3. The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. The lamp device defined in Claim 2, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. The lamp device defined in Claim 1, wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. The lamp device defined in Claim 1, wherein at one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. The lamp device defined in Claim 1, comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

37 CFR 41.37(c)(1)(ix) EVIDENCE APPENDIX

None.

37 CFR 41.37(c)(1)(x) RELATED PROCEEDINGS APPENDIX

None.

13. Practice notice

STATUTORY HOLIDAYS *(DIES NON)*

Note: This practice notice is intended to provide guidance on current Canadian Intellectual Property Office (CIPO) practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.

Time limits under the *Patent, Trade-marks, Industrial Design, Copyright* and *Integrated Circuit Topography Acts*

In accordance with section 26 of the *Interpretation Act*, any person choosing to deliver a document to a designated establishment (including CIPO's offices in Gatineau, Quebec; an Industry Canada regional office; or a Registered Mail establishment) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

Operationally, CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly, where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that they are properly entitled to any needed extension of the time limit.

Time limits under the *Patent* and *Trade-marks Acts*

13. Énoncé de pratique

JOURS FÉRIÉS *(DIES NON)*

Nota : Le présent avis a pour objet de fournir une orientation pour les pratiques et l'interprétation à l'Office de la propriété intellectuelle du Canada (OPIC) touchant les lois pertinentes. Toutefois, en cas d'incohérence entre cet avis et la loi applicable, il faut se reporter à la loi.

Délais prévus dans *les lois régissant les brevets, les marques de commerce, les dessins industriels, le droit d'auteur* et *les topographies de circuits intégrés*

Selon l'article 26 de la *Loi d'interprétation*, lorsqu'une personne choisit de livrer un document à un établissement désigné (y compris les bureaux de l'OPIC à Gatineau, au Québec, un bureau régional d'Industrie Canada ou un établissement de Courrier recommandé) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris un télécopieur, seraient réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi sur les établissements auxquels des documents sont livrés. En conséquence, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Délais prévus dans la *Loi sur les brevets* et dans la *Loi sur les marques de commerce*

UVES-Exhibit 1002-Page 171

In addition to the extensions of time limits referred to above, in accordance with subsection 78(1) of the *Patent Act* and subsection 66(1) of the *Trade-marks Act*, any patent or trade-mark time limit that expires on a day when the Patent and Trade-marks Offices are closed for business is deemed to be extended to the next day when the offices are open for business. All persons are entitled to these extensions regardless of their place of residence or of the establishment to which documents are delivered. No equivalent provisions exist under the *Industrial Design, Copyright or Integrated Circuit Topography Acts.*

En plus des prorogations indiquées aux paragraphes précédents, les paragraphes 78(1) de la *Loi sur les brevets* et 66(1) de la *Loi sur les marques de commerce* stipulent que tout délai relatif aux brevets ou aux marques de commerce qui expire un jour où les bureaux des marques de commerce et des brevets sont fermés au public est réputé prorogé jusqu'au jour de réouverture de ces bureaux. Toute personne a droit à une telle prorogation quel que soit son lieu de résidence ou l'établissement auquel les documents sont livrés. Il n'existe pas de disposition du genre dans la *Loi sur les dessins industriels*, la *Loi sur le droit d'auteur* ou la *Loi sur les topographies de circuits intégrés*.

Time limits under the Patent Cooperation Treaty

Délais prévus dans le Traité de coopération en matière de brevets

Rule 80.5 of the *Regulations under the PCT* provides:

La règle 80.5 du *Règlement d'exécution du PCT* prévoit ce qui suit :

"If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:
(i) on which such Office or organization is not open to the public for the purposes of the transaction of official business;
(ii) on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
(iii) which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
(iv) which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; the period shall expire on the next subsequent day on which none of the said four circumstances exists."

"Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour
i) où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;
ii) où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;
iii) qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou
iv) qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus."

CIPO takes the position that section 26 of the *Interpretation Act* applies to PCT international applications filed in Canada. Accordingly, where a person has a time limit under the PCT for the filing of a document in Canada that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. CIPO however takes no position as to whether such extensions would be recognized by other countries and it will be the responsibility of the person filing the document to ensure that in other countries of interest they are properly entitled to any needed extension of the time limit by reason of Rule 80.5 of the *Regulations under the PCT* or some other applicable law.

L'OPIC estime que l'article 26 de la *Loi d'interprétation* s'applique aux demandes internationales du PCT déposées au Canada. Par conséquent, lorsqu'un délai prévu dans le cadre du PCT pour le dépôt d'un document au Canada expire un jour férié provincial ou territorial, si le déposant livre le document en question le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement où une prorogation du délai est justifiée. Toutefois, il ne se prononce pas sur l'acceptation éventuelle de ces prorogations par d'autres pays; il incombera à la personne qui dépose le document de vérifier si elle a droit à une prorogation, dans d'autres pays qui l'intéressent, en vertu de la règle 80.5 du *Règlement d'exécution du PCT* ou d'une autre loi pertinente.

UVES-Exhibit 1002-Page 172

Provincial and Territorial Holidays

For the purposes of this practice notice, CIPO has identified the following as being days that are not federal holidays but that are holidays in one or more provinces or territories:

1) **Alberta:** 3rd Monday in February (Alberta Family Day)
2) **British Columbia:** 1st Monday in August (British Columbia Day)
3) **New Brunswick:** 1st Monday in August (New Brunswick Day)
4) **Nova Scotia:** 1st Monday in August (Civic Holiday)
5) **Ontario:** 1st Monday in August (Civic Holiday)
6) **Quebec:** June 24 (St. John the Baptist Day)
7) **Saskatchewan:** 1st Monday in August (Saskatchewan Day)
8) **Yukon:** 3rd Monday in August (Discovery Day)

When Patent and Trade-marks Offices are closed for business

For the purposes of subsection 78(1) of the *Patent Act* and subsection 66(1) of the *Trade-marks Act*, the Patent and Trade-marks Offices are closed for business on the following days:

1) All Saturdays and Sundays
2) *New Year's Day (Jan. 1)
3) Good Friday
4) Easter Monday
5) Victoria Day - First Monday immediately preceding May 25

6) *St. John the Baptist Day (June 24)
7) *Canada Day (July 1)
8) Labour Day - First Monday in September
9) Thanksgiving Day - Second Monday in October
10) *Remembrance Day (November 11)
11) *Christmas Day (December 25)
12) Boxing Day (December 26)

If December 26 falls on a Saturday, the Patent and Trade-marks Offices will be closed on the following Monday. If December 26 falls on a Sunday or Monday, the Offices are closed on the following Tuesday.

*If any of these holidays fall on a Saturday or Sunday, the Patent and Trade-marks Offices will be closed on the following Monday.

Jours fériés provinciaux ou territoriaux

Aux fins du présent avis, l'OPIC a indiqué que les jours ci-après ne sont pas des jours fériés pour l'administration fédérale, mais ils sont des jours fériés dans au moins une province ou territoire :

1) **Alberta** : 3e lundi de février (Jour de la Famille de l'Alberta)
2) **Colombie-Britannique** : 1er lundi d'août (Fête de la Colombie-Britannique)
3) **Nouveau-Brunswick** : 1er lundi d'août (Fête du Nouveau-Brunswick)
4) **Nouvelle-Écosse** : 1er lundi d'août (congé statutaire)
5) **Ontario** : 1er lundi d'août (congé statuaire)
6) **Québec** : 24 juin (Saint-Jean-Baptiste)
7) **Saskatchewan** : 1er lundi d'août (Fête de la Saskatchewan)
8) **Yukon** : 3e lundi d'août (Jour de la Découverte)

Jours de fermeture au public des bureaux des brevets et des marques de commerce

Pour l'application des paragraphes 78(1) de la *Loi sur les brevets* et 66(1) de la *Loi sur les marques de commerce*, les bureaux des brevets et des marques de commerce sont fermés au public les jours suivants :

1) Tous les samedi et dimanche
2) *Jour de l'An (1er janvier)
3) Vendredi Saint
4) Lundi de Pâques
5) Fête de Victoria - premier lundi précédant immédiatement le 25 mai
6) *Saint-Jean-Baptiste (le 24 juin)
7) *Fête du Canada (1er juillet)
8) Fête du travail - premier lundi de septembre
9) Jour de l'Action de grâces - deuxième lundi d'octobre
10) *Jour du souvenir (11 novembre)
11) *Jour de Noël (25 décembre)
12) L'après-Noël (26 décembre)

Si le 26 décembre est un samedi, les bureaux des brevets et des marques de commerce seront fermés le lundi suivant. S'il coïncide avec un dimanche ou un lundi, les bureaux le seront le mardi d'après.

*Si l'un ou l'autre de ces jours fériés est un samedi ou un dimanche, les bureaux des brevets et marques de commerce seront fermés le lundi suivant.

UVES-Exhibit 1002-Page 173

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Filing a brief in support of an appeal	1402	1	540	540
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 5 months with $0 paid	1255	1	2350	2350
Miscellaneous:				
			Total in USD ($)	**2890**

Electronic Acknowledgement Receipt

EFS ID:	8542386
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	01-OCT-2010
Filing Date:	04-APR-2008
Time Stamp:	11:49:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$2890
RAM confirmation Number	15169
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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 1.20 (Post Issuance 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		2010-10-01-Appeal-Brief-EOT-213202-00595.pdf	651353 51f3768afc3626738bc84d846d13d7f7c30e1d61	yes	21

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Extension of Time	1	1
	Appeal Brief Filed	2	21

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	32747 ae3897017d593e46f5329837a2121b1dfbdff6c8	no	2

Warnings:

Information:

Total Files Size (in bytes):	684100

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) :	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	) :	Group Art Unit: 2839
Application No.: 12/098,363	) :	Confirmation No.: 2154
Filed: April 4, 2008	) :	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	) :)	October 1, 2010

MAIL STOP APPEAL BRIEF -- PATENTS
Director of the United States Patent
and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

APPELLANTS' BRIEF ON APPEAL AND PETITION FOR EXTENSION OF TIME

Sir:

Appellants petition to extend the time for filing the Appeal Brief from May 1, 2010 to October 1, 2010. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments, should also be charged or credited to Deposit Account No. 50-1710.

Docket No. 213202-00595
Date: March 1, 2010

NOTICE OF APPEAL FROM THE PRIMARY EXAMINER TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of: JOSEPH ELKU, ET AL.

Application No.: 12/098,363

For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

Filed: April 4, 2008

Group Art Unit: 2839

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

Sir:

Applicants hereby appeal to the Board of Patent Appeals and Interferences from the decision dated August 27, 2009 of the Primary Examiner finally rejecting Claims 2-23.

The items checked below are appropriate.

1. ☒ A Petition for a three month extension of time to respond to the final rejection, together with the $ 620.00 extension fee under 37 C.F.R. § 1.17, is being filed concurrently herewith.

2. ☐ A Petition for a two-month extension of time to respond to the final rejection, together with the _____ extension fee under 37 C.F.R. § 1.17, was filed on _____.

3. ☐ A Petition for a one-month extension of time to take further action, together with the $_____ extension fee under 37 C.F.R. § 1.17, was filed on _____.

4. ☒ Notice of Appeal Fee

☒ Fee $540.00

☐ Enclosed

☐ Not required (fee paid in prior appeal)

☒ Charge to Deposit Account No. 50-1710.

5. ☒ The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 or 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 50-1710.

6. ☒ Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W., Suite 200
Washington, D.C. 20007-5118

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Notice of appeal	1401	1	540	540
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $490 paid	1253	1	620	620
Miscellaneous:				
			Total in USD ($)	**1160**

Electronic Acknowledgement Receipt

EFS ID:	7111896
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	01-MAR-2010
Filing Date:	04-APR-2008
Time Stamp:	15:59:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1160
RAM confirmation Number	2939
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2010-03-01-EOT-Notice-Of-Appeal-213202-00595.pdf	96278 67b64d07dde54fd2ad4b4e181e9cdc8288e52158	yes	4

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Extension of Time	1	2
Notice of Appeal Filed	3	4

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	32513 81f1a0597f8fab98cea49f79860bb6b7c6cfd227	no	2

Warnings:

Information:

Total Files Size (in bytes):	128791

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	March 1, 2010
	:	
	)	

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

PETITION UNDER 37 CFR § 1.136(A)

Sir:

Applicants petition the Commissioner of Patents to further extend the time for response to the Office Action dated August 27, 2009 for an additional one month from January 27, 2009 to March 1, 2010 (Monday). The Commissioner is hereby authorized to charge $620.00 to Deposit Account No. 50-1710. Any deficiency in or overpayment of this fee should also be charged to Deposit Account No. 50-1710.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
2900 K Street, N.W.
Suite 200
Washington, D.C. 20007-5118

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/098,363	ELKU ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 26 JAN 2010	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
JAB

U.S. Patent and Trademark Office

EFP Receipt:1/26/10
Please Enter: 2/4/10 /pn/

Application No.: 12/098,363
Art Unit 2839

Attorney Docket No.: **213202-00595**

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	January 26, 2010

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

REQUEST FOR RECONSIDERATION AND PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to further extend the time for response to the August 27, 2009 Office Action from the one-month-extended due date of December 28, 2009 (Monday) to the two-month-extended due date of January 27, 2010. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

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.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 02/16/2010

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

MAIL DATE	DELIVERY MODE
02/16/2010	PAPER

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

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

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 12/098,363	**Applicant(s)** ELKU ET AL.	
	Examiner PHUONG NGUYEN	**Art Unit** 2839	

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

THE REPLY FILED 26 January 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
   a) ☒ The period for reply expires 5 months from the mailing date of the final rejection.
   b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

   Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   (a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
   (b) ☐ They raise the issue of new matter (see NOTE below);
   (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

   NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
   The status of the claim(s) is (or will be) as follows:
   Claim(s) allowed: _____.
   Claim(s) objected to: _____.
   Claim(s) rejected: 2-23.
   Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
12. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
13. ☐ Other: _____.

/T C Patel/
Supervisory Patent Examiner, Art Unit 2839

Continuation of 11. does NOT place the application in condition for allowance because:

The examiner acknoledges applicant's discussion of support for the claimed subject matter with respect to 60/693,502.

However, appicant's remarks with respect to the claim for priority are not persuassive.

International Filing Dates are not waived because of holidays

Applicants filed 60/693,502 in the United States of America on June 24, 2005. Applicant subsequently filed PCT/CA2006/001040 on June 27, 2006. The act of filing the US provisional application does not create any "time limits" under the Patent Cooperation Treaty. The Canadian documentation supplied, which comes from PCT Rule 80, Computation of Time Limits, points out:

"If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day...such period shall expire on a subsequent day; the period shall expire onthe next subsequent day on which none of the said four circumstances exists."

Since the filing of the US provisional application does not create a WIPO time limit nor establish any period for reply in any national Office or intergovernmental organization, PCT Rule 80 does not apply (see note 1), there is no period that can be extended due to the conditions listed. The International Filing Date is the International Filing Date, and applicant's International Filing Date remains June 27, 2006, and as such is more than one year after the filing of the US provisional application (see note 2). Thus, applicant is not entitled to the benefit of priority to US 60/693,502.

Expiration of US Provisional applications are not extended because of Canadian holidays

Further, Public Law 106-113 amended 35 U.S.C. 119(e)(3) to extend the period of pendency of a provisional application to the next succeeding business day if the day that is 12 months after the filing date of a provisional applicaiton falls on a Saturday, Sunday, or a Federal Holiday withing the District of Columbia. See MPEP 201.04(b). Thus the provisional application expired Monday, June 26, 2006. This day is not extended because of St. John the Baptist Day in Canada. 35 U.S.C. 363 states:

"An international application designating the United States shall have the effect, from its international filing date under article 11 of the treaty, of a national application for patent regularly filed in the Patent and Trademark Office except as otherwise provided in section 102(e) of this title."

Since PCT/CA2006/001040 was not filed until June 27, 2006, the two applications were not co-pending. Thus, applicant is not entitled to the benefit of priority to US 60/693,502 (see note 3)..

Note 1 - Refer to Rule 82bis for the meaning of "time limit" in this context. See also 26bis.2 and 26bis.3 wherein the expression "priority period" is used in distinction from "time limit." The priority period is not subject to the provisions of Rule 80.

Note 2 - Refer to PCT Rule 20 (20.2a). The date of receipt of the application papers is the international filing date of the international application.

Note 3 - It appears that the time period for restoring the Right of Priority under 26bis.3 has lapsed.

In reply to the January 12, 2010 Advisory Action, please enter the following Remarks:

I. Remarks begin on page 3 of this document.

I. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-23 are pending in the application. Claim 2 is the sole independent claim.

In reply to the points noted by the Examiner in the January 12, 2010 Advisory Action:

1. Filed herewith is an executed Terminal Disclaimer Form PTO/SB/26.

2. The Examiner is incorrect in asserting that, from a subject matter viewpoint, there is no entitlement to priority. The earliest priority claim is to USSN 60/693,502, filed June 24, 2005. Currently pending claim 2 is supported, for example, by Figure 3 and the accompanying text in USSN 60/693,502. For example, Figure 3 illustrates a lamp device (100) comprising a longitudinal axis (A), a first elongate electrical connector (106) and a second elongate electrical connector (108) being aligned in a spaced relationship along the longitudinal axis (A), each of the first elongate electrical connector (106) and the second elongate electrical connector (108) configured to form an oblique angle (180 deg. - alpha) with respect to the longitudinal axis (A).

3. The Examiner is also incorrect in asserting that, from a chronological viewpoint, there is no entitlement to priority. USSN 60/693,502 was filed on June 24, 2005. The Examiner is correct that the deadline for filing PCT/CA2006/001040 was June 24, 2005, a Saturday. However, June 24 is annual statutory holiday (St. John Baptist Day) in the Province of Quebec (location of the Canadian Intellectual Property Office (CIPO)).

As you will see from the attached notice from CIPO (see the last page), since June 24, 2006 fell on a Saturday, CIPO was closed on the following Monday, June 26, which means that the actual deadline fell on Tuesday, June 27, 2006 - i.e., the filing date of the PCT application. Therefore, the priority claim is valid.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

13. Practice notice

STATUTORY HOLIDAYS *(DIES NON)*

Note: This practice notice is intended to provide guidance on current Canadian Intellectual Property Office (CIPO) practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.

Time limits under the *Patent, Trade-marks, Industrial Design, Copyright* and *Integrated Circuit Topography Acts*

In accordance with section 26 of the *Interpretation Act*, any person choosing to deliver a document to a designated establishment (including CIPO's offices in Gatineau, Quebec; an Industry Canada regional office; or a Registered Mail establishment) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

Operationally, CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly, where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that they are properly entitled to any needed extension of the time limit.

Time limits under the *Patent* and *Trade-marks Acts*

13. Énoncé de pratique

JOURS FÉRIÉS *(DIES NON)*

Nota : Le présent avis a pour objet de fournir une orientation pour les pratiques et l'interprétation à l'Office de la propriété intellectuelle du Canada (OPIC) touchant les lois pertinentes. Toutefois, en cas d'incohérence entre cet avis et la loi applicable, il faut se reporter à la loi.

Délais prévus dans *les lois régissant les brevets, les marques de commerce, les dessins industriels, le droit d'auteur* et *les topographies de circuits intégrés*

Selon l'article 26 de la *Loi d'interprétation*, lorsqu'une personne choisit de livrer un document à un établissement désigné (y compris les bureaux de l'OPIC à Gatineau, au Québec, un bureau régional d'Industrie Canada ou un établissement de Courrier recommandé) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris un télécopieur, seraient réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi sur les établissements auxquels des documents sont livrés. En conséquence, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Délais prévus dans la *Loi sur les brevets* et dans la *Loi sur les marques de commerce*

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In addition to the extensions of time limits referred to above, in accordance with subsection 78(1) of the *Patent Act* and subsection 66(1) of the *Trade-marks Act*, any patent or trade-mark time limit that expires on a day when the Patent and Trade-marks Offices are closed for business is deemed to be extended to the next day when the offices are open for business. All persons are entitled to these extensions regardless of their place of residence or of the establishment to which documents are delivered. No equivalent provisions exist under the *Industrial Design, Copyright or Integrated Circuit Topography Acts.*

En plus des prorogations indiquées aux paragraphes précédents, les paragraphes 78(1) de la *Loi sur les brevets* et 66(1) de la *Loi sur les marques de commerce* stipulent que tout délai relatif aux brevets ou aux marques de commerce qui expire un jour où les bureaux des marques de commerce et des brevets sont fermés au public est réputé prorogé jusqu'au jour de réouverture de ces bureaux. Toute personne a droit à une telle prorogation quel que soit son lieu de résidence ou l'établissement auquel les documents sont livrés. Il n'existe pas de disposition du genre dans la *Loi sur les dessins industriels*, la *Loi sur le droit d'auteur* ou la *Loi sur les topographies de circuits intégrés.*

Time limits under the Patent Cooperation Treaty

Rule 80.5 of the *Regulations under the PCT* provides:

"If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:
(i) on which such Office or organization is not open to the public for the purposes of the transaction of official business;
(ii) on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
(iii) which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
(iv) which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; the period shall expire on the next subsequent day on which none of the said four circumstances exists."

CIPO takes the position that section 26 of the *Interpretation Act* applies to PCT international applications filed in Canada. Accordingly, where a person has a time limit under the PCT for the filing of a document in Canada that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. CIPO however takes no position as to whether such extensions would be recognized by other countries and it will be the responsibility of the person filing the document to ensure that in other countries of interest they are properly entitled to any needed extension of the time limit by reason of Rule 80.5 of the *Regulations under the PCT* or some other applicable law.

Délais prévus dans le Traité de coopération en matière de brevets

La règle 80.5 du *Règlement d'exécution du PCT* prévoit ce qui suit :

"Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour
i) où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;
ii) où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;
iii) qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou
iv) qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus."

L'OPIC estime que l'article 26 de la *Loi d'interprétation* s'applique aux demandes internationales du PCT déposées au Canada. Par conséquent, lorsqu'un délai prévu dans le cadre du PCT pour le dépôt d'un document au Canada expire un jour férié provincial ou territorial, si le déposant livre le document en question le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement où une prorogation du délai est justifiée. Toutefois, il ne se prononce pas sur l'acceptation éventuelle de ces prorogations par d'autres pays; il incombera à la personne qui dépose le document de vérifier si elle a droit à une prorogation, dans d'autres pays qui l'intéressent, en vertu de la règle 80.5 du *Règlement d'exécution du PCT* ou d'une autre loi pertinente.

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Provincial and Territorial Holidays

For the purposes of this practice notice, CIPO has identified the following as being days that are not federal holidays but that are holidays in one or more provinces or territories:

1) **Alberta:** 3rd Monday in February (Alberta Family Day)
2) **British Columbia:** 1st Monday in August (British Columbia Day)
3) **New Brunswick:** 1st Monday in August (New Brunswick Day)
4) **Nova Scotia:** 1st Monday in August (Civic Holiday)
5) **Ontario:** 1st Monday in August (Civic Holiday)
6) **Quebec:** June 24 (St. John the Baptist Day)
7) **Saskatchewan:** 1st Monday in August (Saskatchewan Day)
8) **Yukon:** 3rd Monday in August (Discovery Day)

When Patent and Trade-marks Offices are closed for business

For the purposes of subsection 78(1) of the *Patent Act* and subsection 66(1) of the *Trade-marks Act*, the Patent and Trade-marks Offices are closed for business on the following days:

1) All Saturdays and Sundays
2) *New Year's Day (Jan. 1)
3) Good Friday
4) Easter Monday
5) Victoria Day - First Monday immediately preceding May 25

6) *St. John the Baptist Day (June 24)
7) *Canada Day (July 1)
8) Labour Day - First Monday in September
9) Thanksgiving Day - Second Monday in October
10) *Remembrance Day (November 11)
11) *Christmas Day (December 25)
12) Boxing Day (December 26)

If December 26 falls on a Saturday, the Patent and Trade-marks Offices will be closed on the following Monday. If December 26 falls on a Sunday or Monday, the Offices are closed on the following Tuesday.

*If any of these holidays fall on a Saturday or Sunday, the Patent and Trade-marks Offices will be closed on the following Monday.

Jours fériés provinciaux ou territoriaux

Aux fins du présent avis, l'OPIC a indiqué que les jours ci-après ne sont pas des jours fériés pour l'administration fédérale, mais ils sont des jours fériés dans au moins une province ou territoire :

1) **Alberta** : 3e lundi de février (Jour de la Famille de l'Alberta)
2) **Colombie-Britannique** : 1er lundi d'août (Fête de la Colombie-Britannique)
3) **Nouveau-Brunswick** : 1er lundi d'août (Fête du Nouveau-Brunswick)
4) **Nouvelle-Écosse** : 1er lundi d'août (congé statutaire)
5) **Ontario** : 1er lundi d'août (congé statuaire)
6) **Québec** : 24 juin (Saint-Jean-Baptiste)
7) **Saskatchewan** : 1er lundi d'août (Fête de la Saskatchewan)
8) **Yukon** : 3e lundi d'août (Jour de la Découverte)

Jours de fermeture au public des bureaux des brevets et des marques de commerce

Pour l'application des paragraphes 78(1) de la *Loi sur les brevets* et 66(1) de la *Loi sur les marques de commerce*, les bureaux des brevets et des marques de commerce sont fermés au public les jours suivants :

1) Tous les samedi et dimanche
2) *Jour de l'An (1er janvier)
3) Vendredi Saint
4) Lundi de Pâques
5) Fête de Victoria - premier lundi précédant immédiatement le 25 mai
6) *Saint-Jean-Baptiste (le 24 juin)
7) *Fête du Canada (1er juillet)
8) Fête du travail - premier lundi de septembre
9) Jour de l'Action de grâces - deuxième lundi d'octobre
10) *Jour du souvenir (11 novembre)
11) *Jour de Noël (25 décembre)
12) L'après-Noël (26 décembre)

Si le 26 décembre est un samedi, les bureaux des brevets et des marques de commerce seront fermés le lundi suivant. S'il coïncide avec un dimanche ou un lundi, les bureaux le seront le mardi d'après.

*Si l'un ou l'autre de ces jours fériés est un samedi ou un dimanche, les bureaux des brevets et marques de commerce seront fermés le lundi suivant.

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PTO/SB/26 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 213202-00595

In re Application of: Joseph ELKU, et al.

Application No.: 12/098,363

Filed: April 4, 2008

For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

The owner*, Trojan Technologies, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 7,390,225 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

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

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 31,588

/Richard P. Bauer/ — Signature
01/26/2010 — Date

Richard P. Bauer — Typed or printed name

(202) 625-3507 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with $130 paid	1252	1	360	360

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory disclaimer	1814	1	140	140
		Total in USD ($)		**500**

Electronic Acknowledgement Receipt

EFS ID:	6882579
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	26-JAN-2010
Filing Date:	04-APR-2008
Time Stamp:	15:00:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$500
RAM confirmation Number	1305
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2010-01-26-Request-For-Reconsideration-EOT-213202-00595.pdf	344814 9227f9786f08b248e237b331c6b540f906b91821	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Extension of Time	1	1
	Amendment After Final	2	2
	Applicant Arguments/Remarks Made in an Amendment	3	7

Warnings:

Information:

2	Terminal Disclaimer Filed	2010-01-26-Terminal-Disclaimer-213202-00595.pdf	79418 272d77faa398c0739d05a2349bb0b67805eb72c1	no	1

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	32331 bf2d62af46912d1857eed6cc604595c1a816d7ed	no	2

Warnings:

Information:

Total Files Size (in bytes):	456563

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	January 26, 2010
	:	
	)	

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

REQUEST FOR RECONSIDERATION AND PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to further extend the time for response to the August 27, 2009 Office Action from the one-month-extended due date of December 28, 2009 (Monday) to the two-month-extended due date of January 27, 2010. Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

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.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 01/12/2010

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

MAIL DATE	DELIVERY MODE
01/12/2010	PAPER

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

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

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 12/098,363	**Applicant(s)** ELKU ET AL.	
	Examiner PHUONG NGUYEN	**Art Unit** 2839	

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

THE REPLY FILED 04 December 2009 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
   a) ☒ The period for reply expires *4* months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

   Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   (a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
   (b) ☐ They raise the issue of new matter (see NOTE below);
   (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

   NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
   The status of the claim(s) is (or will be) as follows:
   Claim(s) allowed: _____.
   Claim(s) objected to: _____.
   Claim(s) rejected: *2-23*.
   Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
12. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
13. ☐ Other: _____.

/T C Patel/
Supervisory Patent Examiner, Art Unit 2839

Continuation of 3. NOTE:

1) The terminal Disclaimer has been not approved, because the word "legal tille" do not include common owenership as to equitable tille. see 1.37 CFR 1.321(c) (3).

2) Applicants assertion that the present application "properly claims priority to U.S. Provisional Patent Application No. 60/693,502, filed Jun. 24, 2005" is not persuassive for the following two reasons.

First, application 11/626756 is a "continuation in part" of PCT/CA2006/001040 filed 06/27/2006. There is no indication that the claims as presently filed were supported by the PCT/CA2006/001040 application and therefore entitled to priority date of 06/27/2006.

Second, provisional application 60/693,502 was filed 06/24/2005. Application PCT/CA2006/001040 was filed 06/27/2006. Tweleve months from 06/24/2005 was 06/24/2006, which was a Saturday. The following working day was Monday, 06/26/2006. The PCT application was not filed until Tuesday, 06/27/2006, and thus even if the present application can claim priority to the PCT/CA2006/001040 application, the application is not entitled to priority back to 06/24/2005 since PCT/CA2006/001040 was filed more than one year after the filing of 06/26/2006.

Attorney Docket No.: 213202-00595 PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	December 4, 2009

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

AMENDMENT AND PETITION FOR EXTENSION OF TIME

Sir:

Applicants petition to extend the time for response to the August 27, 2009 Office Action to December 28, 2009 (Monday). Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/098,363	ELKU ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☐ APPROVED	☒ DISAPPROVED
Date Filed : 12/04/09	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

The words "legal title" do not include common ownership as to equitable title.
see 1.37 CFR 1.321(c)(3).
j.proctor

In response to the August 27, 2009 Office Action, please enter the following:

I. **Amendments to the Claims** are reflected in the listing of claims which begins on page 3 of this document.

II. **Remarks** begin on page 8 of this document.

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).

2. (Previously Presented) A lamp device comprising a longitudinal axis, a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship along the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis.

3. (Previously Presented) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. (Currently Amended) The lamp device defined in Claim 2 ~~1~~, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. (Previously Presented) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. (Previously Presented) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. (Previously Presented) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. (Previously Presented) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. (Currently Amended) The lamp device defined in Claim 2 ~~1~~,, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. (Previously Presented) The lamp device defined in Claim 1, wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. (Previously Presented) The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. (Previously Presented) The lamp device defined in Claim 1, wherein at one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. (Previously Presented) The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. (Previously Presented) The lamp device defined in Claim 1, comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. (Previously Presented) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

II. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-23 are pending in the application. Claim 2 is the sole independent claim.

With respect to the Terminal Disclaimer, attached are (i) the Power of Attorney filed in the parent case, (ii) a newly-executed Power of Attorney, and (ii) a newly-executed Terminal Disclaimer.

The claims have been amended to overcome the objection thereto.

Claims 2-23 were rejected as being obvious over Ciancanelli, Titchner, and Sabo, for the reasons noted at pages 3-8 of the Office Action.

However, Ciancanelli is not citable as a reference against the claims of the subject application. Specifically, the subject application properly claims priority to U.S. Provisional Patent Application No. 60/693,502, filed Jun. 24, 2005, whereas Ciancanelli only claims priority to an application filed February 27, 2006. Accordingly, it is respectfully requested that the art rejection be withdrawn and the case passed to issue. Note that Applicants are concurrently filing a Request for Corrected Filing Receipt to properly recite the priority that was claimed upon filing of the subject application.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	December 4, 2009
	:	
	)	

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

TERMINAL DISCLAIMER

Sir:

Your petitioner, Trojan Technologies, a Canadian corporation having a principal place of business at 3020 Gore Road, London, Ontario, Canada N5V, and duly represented by the undersigned, represents that it is the assignee of the full right, title, and interest in and to the above-identified Application No. 12/098,363, filed April 4, 2008, and in and to U.S. Patent No. 7,390,225, as evidenced by the deeds of Assignment recorded at Reel No. 019167, Frame No. 0177, and at Reel No. 020642, Frame 0353.

Your petitioner hereby disclaims the terminal part of any patent granted on the above-identified application which would extend beyond the expiration date of the full statutory term of U.S. Patent No. 7,390,225, as presently shortened by any terminal disclaimer,

and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to U.S. Patent No. 7,390,225, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

Your petitioner does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of U.S. Patent No. 7,390,225, as presently shortened by any terminal disclaimer, in the event that subsequent hereto U.S. Patent 7,390,225 expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is the subject of any disclaimer under 37 C.F.R. 1.321(a), has all claims canceled by a reexamination certificate or is otherwise terminated prior to the expiration of its statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

The evidentiary documents referred to in the instant Terminal Disclaimer have been reviewed by the undersigned, and it is certified that to the best of assignee's knowledge and belief, title is in the assignee.

The undersigned is empowered to act on behalf of the assignee.

The Commissioner is hereby authorized to charge Deposit Account No. 50-1710 for the fee for submission of this Terminal Disclaimer. A copy of this paper is attached herewith for that purpose.

By: /Richard P. Bauer/
Richard P. Bauer
Reg. No. 31,588
Attorney For Applicants

Date: December 4, 2009

PTO/SB/80 (04-05)
Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☑ Practitioners associated with the Customer Number: 27160

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☑ The address associated with Customer Number: 27160

OR

☐ Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address:

TrojanTechnologies
3020 Gore Road
London, Ontario, CANADA N5V 4T7

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	[signature]	Date	Nov. 27/2009
Name	MARTIN J. BRENNAN	Telephone	1-888-220-6118
Title	INTELLECTUAL PROPERTY MANAGER		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. 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 3 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.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT BY ASSIGNEE OF RECORD

Application Number	11/626,756
Filing Date	January 24, 2007
First Named Inventor	ELKU, Joseph et al.
Title	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
Group Art Unit	2875
Examiner Name	
Attorney Docket Number	213202.00567

I HEREBY APPOINT:

☒ Practitioners at Customer Number **27160**

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

PLEASE CHANGE THE CORRESPONDENCE ADDRESS FOR THE ABOVE-IDENTIFIED APPLICATION:

☒ The above-mentioned Customer Number

OR

☐ Practitioners at Customer Number

OR

☐ Firm or Individual Name					
Address					
Address					
City		State		Zip	
Country					
Telephone		Fax			

I AM THE ASSIGNEE OF RECORD OF THE ENTIRE INTEREST. SEE 37 CFR 3.71.
A STATEMENT UNDER 37 CFR 3.73(b) IS ENCLOSED.

SIGNATURE OF ASSIGNEE OF RECORD

Name	**Trojan Technologies**
Signature	Martin Bracken, **Intellectual Property Manager**
Date	April 10, 2007

NOTE: Signatures of **ALL** of the assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. If submitting multiple forms, complete the following:

☒ A total of 1 Power of Attorney or Authorization of Agent forms are being submitted.

TOR_LAW\ 6556577\1

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory disclaimer	1814	1	140	140
		Total in USD ($)		**270**

Electronic Acknowledgement Receipt

EFS ID:	6573815
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	04-DEC-2009
Filing Date:	04-APR-2008
Time Stamp:	12:48:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$270
RAM confirmation Number	8936
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2009-12-04-Amendment-EOT-213202-00595.pdf	220181 20339a944ca58aa15226d4c5631f64ab2241a069	yes	9

Multipart Description/PDF files in .zip description

Document Description	Start	End
Extension of Time	1	1
Amendment After Final	2	2
Claims	3	7
Applicant Arguments/Remarks Made in an Amendment	8	9

Warnings:

Information:

2	Terminal Disclaimer Filed	2009-12-04-Terminal-Disclaimer-213202-00595.pdf	83207 eed46605c576123b2bb2c0bcecbe0704048cb4ba	no	3

Warnings:

Information:

3	Power of Attorney	2009-12-04-New-POA-213202-00595.pdf	86879 3785a06ccf2469c7c22a60a4d05ec1f271f2e4d1	no	1

Warnings:

Information:

4	Power of Attorney	2009-12-04-POA-from-parent-appln-213202-00595.pdf	67233 c50a721c9035529e1f681d23a27c46b23c1e7d7f	no	1

Warnings:

Information:

5	Fee Worksheet (PTO-875)	fee-info.pdf	32430 1c1b41f25e591c2bb1b01463195edf492182f7d7	no	2

Warnings:

Information:

Total Files Size (in bytes):	489930

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
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For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	December 4, 2009

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AMENDMENT AND PETITION FOR EXTENSION OF TIME

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 08/27/2009

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	PAPER NUMBER
2839	

MAIL DATE	DELIVERY MODE
08/27/2009	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONG NGUYEN	2839	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *26 May 2009*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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

4)☒ Claim(s) *2-23* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *2-23* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *04 April 2008* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5/26/09*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. The terminal disclaimer filed on May 26, 2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent 7,900,225 has been reviewed and is NOT accepted.

The terminal disclaimer does not comply with 37 CFR 1.321(b) and/or (c) because:

The person who has signed the disclaimer has not stated the extent of his/her interest, or the business entity's interest, in the application/patent. See 37 CFR 1.321(b)(3).

The person who signed the terminal disclaimer has failed to state his/her capacity to sign for the corporation or other business entity or organization, and he/she has not been established as being authorized to act on behalf of the assignee.

An attorney or agent, not of record, is not authorized to sign a terminal disclaimer in the capacity as an attorney or agent acting in a representative capacity as provided by 37 CFR 1.34 (a). See 37 CFR 1.321(b) and/or (c).

It would be acceptable for a person, other than a recognized officer, to sign a terminal disclaimer, provided the record for the application includes a statement that the person is empowered to sign terminal disclaimers and/or act on behalf of the organization.

Accordingly, a new terminal disclaimer which includes the above empowerment statement will be considered to be signed by an appropriate official of the assignee. A separately filed paper referencing the previously filed terminal disclaimer and containing a proper empowerment statement would also be acceptable.

Enclosed with this Office action is a sample terminal disclaimer which is effective to overcome an obviousness-type double patenting rejection over a prior patent (37 CFR 1.1321(b) and (c)).

Also enclosed is a sample Statement Under 37 CFR 3.73(b) (Form PTO/SB/96) which an assignee may use in order to ensure compliance with the rule. Part A of the Statement is used when there is a single

assignment from the inventor(s). Part B of the Statement is used when there is a chain of title. The "Copies of assignments..." box should be checked when the assignment document(s) (set forth in part A or part B) is/are not recorded in the Office, and a copy of the assignment document(s) is/are attached. When the "Copies of assignments..." box is checked, either the part A box or the part B box, as appropriate, must be checked, and the "Reel_____, Frame_____" entries should be left blank. If the part B box is checked, and copies of assignments are not included, the "From:_____ To:_____" blank(s) must be filled in. This statement should be used the first time an assignee seeks to take action in an application under 37 CFR 3.73(b), e.g., when signing a terminal disclaimer or a power of attorney.

2. Applicant's amendment of May 26, 2009 is acknowledged. It is noted that claim 1 is canceled. New claims 2-23 are added.

Claim Objections

3. Claims 4-23 are objected to because of the following informalities:

Claims 4 and 15-20 are depended on the canceled claim 1. Appropriate correction is required.

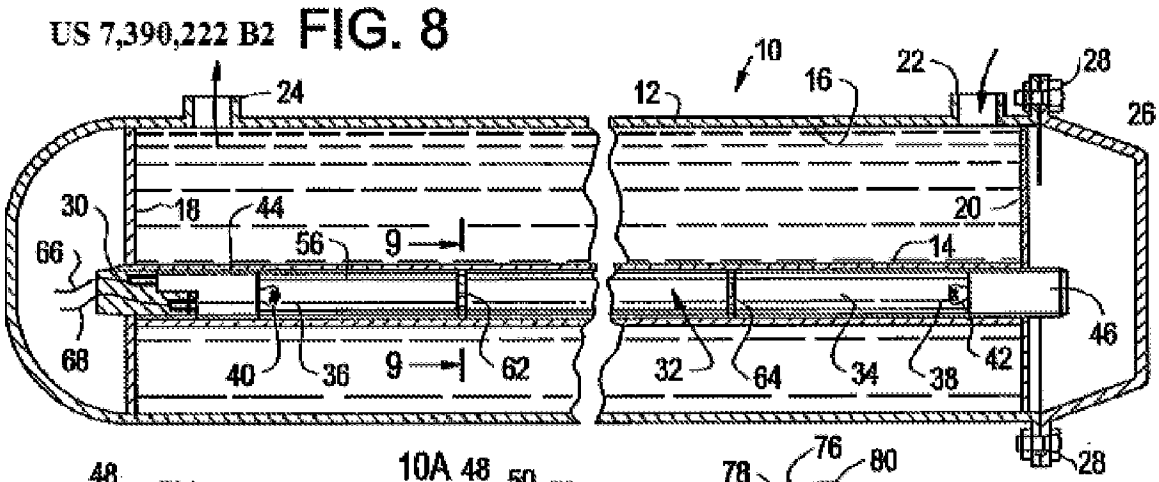
Claim Rejections - 35 USC § 103

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

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

5. Claims 2-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clancanelli et al (US7390222) in view of Titchener (US7033203) or Sabo (US5645449).

Regarding to claim 2, Clancanelli et al disclose (figs. 8, 10A, 10 and 15) a lamp device (32) comprising a longitudinal axis, a first elongate electrical connector (52+54) and a second elongate electrical connector (48+50), the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) being aligned in a spaced relationship along the longitudinal axis, each of the first elongate electrical connector (52+44) and the second elongate connector (48+50) configured to form a connection with respect to the longitudinal axis. Clancanelli disclose the invention generally all as claimed, but does not show the first connector and the second connector forming an oblique angle with respect to the longitudinal axis. However, Titchener teaches the first connector (31) and the second connector (32) forming an oblique angle with respect to the longitudinal axis (figs 7 and 8) or Sabo teaches the first connector (22) and the second connector (23) forming an oblique angle with respect to the longitudinal axis (fig. 5). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connection between the first connector and the second connector of Clancanelli et al by forming an oblique angle respect to the longitudinal axis as taught by Titchener or Sato to prevent disconnection between the two connectors and the mating connector when the unintentional forces applied on the two connector bodies/mating connector or two cables (abstract, lines 1-4).



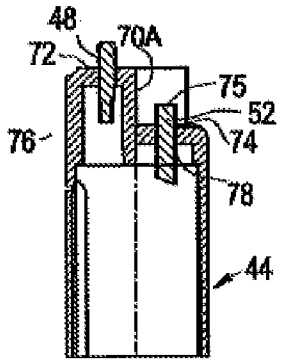


FIG. 10A

P peak
V: valey

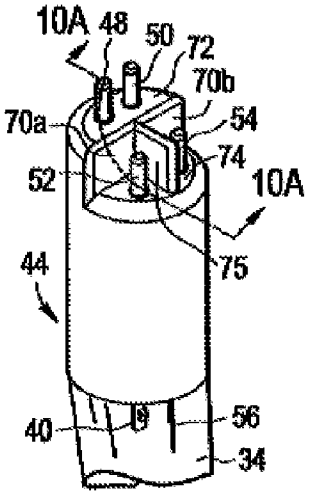


FIG. 10

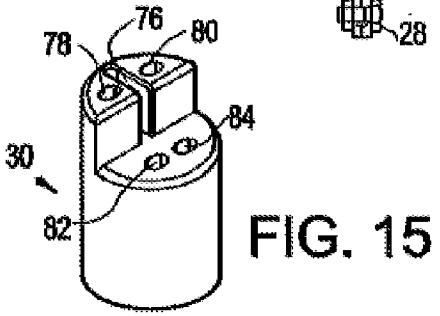


FIG. 15

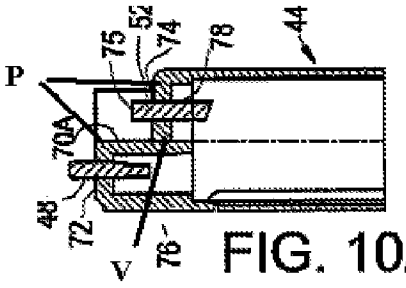


FIG. 10A

Regarding to claim 3, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+44) and the second elongate electrical connector (48+50) are substantially parallel with respect to one another.

Regarding to claim 4, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+44) and the second elongate connector (48+50) are disposed in a base portion (44) at one end of the lamp device (32).

Regarding to claim 5, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises an undulating (wave) shape (fig. 10A).

Regarding to claim 6, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at least one peak (P) and at least one valley (V/70a/70b).

Regarding to claims 7-8, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) are offset with regard to the at least one peak (P) or/and both the at least one valley (V).

Regarding to claim 9, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises a single peak (P) and a single valley (V).

Regarding to claim 10, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) are offset with regard to the single peak (P) or the single valley (V).

Regarding to claim 11, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) are offset with regard to both of the single peak (P) and the single valley (V).

Regarding to claim 12, Clancanelli et al disclose the lamp device wherein a cross-section of the base portion (44) containing the longitudinal axis comprises at a plurality of peaks (P, P) and a plurality of valleys (70a, 70b).

Regarding to claims 13-14, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) are offset with regard to the plurality of peaks (P, P) or the plurality of valleys (70a, 70b).

Regarding to claim 14, Clancanelli et al disclose the lamp device wherein the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) are offset with regard to both of the plurality of peaks (P, P) and the plurality of valleys (70a, 70b).

Regarding to claim 15, Clancanelli et al disclose the lamp device further comprising an elongate radiation emitting cavity comprising the longitudinal axis (col. 6, lines 35-42).

Regarding to claim 16, Clancanelli et al disclose the lamp device wherein the second elongate electrical connector (48+50) comprises a male portion of a male-female connection system (fig. 10A).

Regarding to claim 17, Clancanelli et al disclose the lamp device wherein both of the first elongate electrical connector (52+54) and the second elongate electrical connector (48+50) comprises a male portion (of 52+54; of 48+50) of a male-female connection system (figs. 11, 12 or 24).

Regarding to claim 18, Clancanelli et al disclose the lamp device wherein the second elongate electrical connector (48+50) comprises a male portion of a male-female connection system and the first elongate electrical connector (52+54) comprises a female portion of a male-female connection system (fig. 10A).

Regarding to claim 20, Clancanelli et al disclose the lamp device comprising a pair of first elongate electrical connectors (52, 54) and a pair of second elongate electrical connectors (48, 50).

Regarding to claims 21-23, after the connectors of Clancanelli et al is modified by the oblique angle as taught by Titchener, the pair (52, 54) of first elongate electrical connectors (52+54) and the pair (48, 50) of second elongate electrical connectors (48+50) are in substantial alignment along a line orthogonal to the longitudinal axis.

6. Ciancanelli et al (US7390222) in view of Titchener (US7033203) applied as claim 1 above and further in view of Hill (US6220891)

Regarding to claim 19, Clancanelli et al disclose the invention gernall all as claimed, but does not show both of connectors to be a female portion of a male-female connection system. However, Hill teaches both of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system (fig. 1). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connectors of Ciancanelli et al

by having both of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system a taught by Hill for having alternative type of connectors.

Response to Arguments

7. Applicant's arguments with respect to claim1 have been considered but are moot in view of the new ground(s) of rejection.

8. Please noted that the new claims 2-23 are still required the terminal disclaimer under US Patent 7,900,225.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG NGUYEN whose telephone number is (571)272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

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.

/P. N./

Examiner, Art Unit 2839

/Neil Abrams/

Primary Examiner, Art Unit 2839

Notice of References Cited	Application/Control No. 12/098,363	Applicant(s)/Patent Under Reexamination ELKU ET AL.	
	Examiner PHUONG NGUYEN	Art Unit 2839	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,390,222	06-2008	Ciancanelli et al.	439/617
*	B	US-7,033,203	04-2006	Titchener, Mark Renfrew	439/369
*	C	US-5,645,449	07-1997	Sabo, James Michael	439/540.1
*	D	US-6,220,891	04-2001	Hils, Christopher Matthew	439/482
	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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/17/2008	08/19/2009							
	1	✓	-							
	2		✓							
	3		✓							
	4		✓							
	5		✓							
	6		✓							
	7		✓							
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	21		✓							
	22		✓							
	23		✓							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

SEARCHED			
Class	Subclass	Date	Examiner
439	617, 611, 682, 683	11/17/08	pn

SEARCH NOTES		
Search Notes	Date	Examiner

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

Receipt date: 05/26/2009

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	12098363
Filing Date	2008-04-04
First Named Inventor	Joseph Elku
Art Unit	2839
Examiner Name	Phuongchi T. Nguyen
Attorney Docket Number	213202-00595

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/P.N./	1	4070084	A	1978-01-24	Hutchison	
/P.N./	2	6254252	B1	2001-07-03	Coushaine et al.	
/P.N./	3	6354843	B1	2002-03-12	Kato	
/P.N./	4	6488510	B2	2002-12-03	Li	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/P.N./	1	20020168881	A1	2002-11-14	Hwang et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

Receipt date: 05/26/2009	Application Number	12098363	12098363 - GAU: 2839
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	2008-04-04	
(Not for submission under 37 CFR 1.99)	First Named Inventor	Joseph Elku	
page 2 of 2	Art Unit	2839	
	Examiner Name	Phuongchi T. Nguyen	
	Attorney Docket Number	213202-00595	

	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/P.N./	1	International Search Report for International Application No. PCT/CA2006/001040, published as WO 2006/13026 A1 on December 28, 2006.	☐
/P.N./	2	January 10, 2008 Transmittal and International Preliminary Report on Patentability for International Application No. PCT/CA2006/001040, which was published as WO 2006/13026 A1 on December 28, 2006.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Phuongchi Nguyen/	Date Considered	08/17/2009

*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.

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/098,363	ELKU ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☐ APPROVED	☒ DISAPPROVED
Date Filed : 05/26/09	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

Need 100% interest statement needed.

Angie

U.S. Patent and Trademark Office

In response to the November 24, 2008 Office Action, please enter the following:

I. Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this document.

II. Remarks begin on page 8 of this document.

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).

2. (New) A lamp device comprising a longitudinal axis, a first elongate electrical connector and a second elongate electrical connector, the first elongate electrical connector and the second elongate electrical connector being aligned in a spaced relationship along the longitudinal axis, each of the first elongate electrical connector and the second elongate connector configured to form an oblique angle with respect to the longitudinal axis.

3. (New) The lamp device defined in Claim 2, wherein the first elongate electrical connector and the second elongate electrical connector are substantially parallel with respect to one another.

4. (New) The lamp device defined in Claim 1, wherein the first elongate electrical connector and the second elongate connector are disposed in a base portion at one end of the lamp device.

5. (New) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises an undulating shape.

6. (New) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at least one peak and at least one valley.

7. (New) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the at least one peak or the at least one valley.

8. (New) The lamp device defined in Claim 6, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the at least one peak and the at least one valley.

9. (New) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises a single peak and a single valley.

10. (New) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the single peak or the single valley.

11. (New) The lamp device defined in Claim 9, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the single peak and the single valley.

12. (New) The lamp device defined in Claim 4, wherein a cross-section of the base portion containing the longitudinal axis comprises at a plurality of peaks and a plurality of valleys.

13. (New) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to the plurality of peaks or the plurality of valleys.

14. (New) The lamp device defined in Claim 12, wherein the first elongate electrical connector and the second elongate electrical connector are offset with regard to both of the plurality of peaks and the plurality of valleys.

15. (New) The lamp device defined in Claim 1, further comprising an elongate radiation emitting cavity comprising the longitudinal axis.

16. (New) The lamp device defined in Claim 1, wherein at least one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

17. (New) The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system.

18. (New) The lamp device defined in Claim 1, wherein at one of the first elongate electrical connector and the second elongate electrical connector comprises a male portion of a male-female connection system and the other of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

19. (New) The lamp device defined in Claim 1, wherein both of the first elongate electrical connector and the second elongate electrical connector comprises a female portion of a male-female connection system.

20. (New) The lamp device defined in Claim 1, comprising a pair of first elongate electrical connectors and a pair of second elongate electrical connectors.

21. (New) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

22. (New) The lamp device defined in Claim 20, wherein the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

23. (New) The lamp device defined in Claim 20, wherein the pair of first elongate electrical connectors and the pair of second elongate electrical connectors are in substantial alignment along a line orthogonal to the longitudinal axis.

II. Remarks

Applicant has cancelled claim 1 without prejudice or disclaimer. Further, Applicant has added new claims 2-23. New claims 2-23 correspond substantively to claims 1, 2, 5-16 and 20-27, respectively, appearing in International Patent Application No. PCT/CA2006/001040 incorporated by reference in Paragraph **[0001]** of the present application. Claim 2 contains the further feature that the first elongate electrical connector and the second elongate electrical connector are aligned in a spaced relationship along the longitudinal axis. This further feature is supported by claim 4 appearing in International Patent Application No. PCT/CA2006/001040. Further, claim 2 states that the first elongate electrical connector and the second elongate electrical connector are configured to form an oblique angle with respect to the longitudinal axis. This means that the first elongate electrical connector and the second elongate electrical connector are configured to form either an acute or an obtuse angle with respect to the longitudinal axis. These features essentially are supported by claim 17 and 18 of International Patent Application No. PCT/CA2006/001040. It is believed that no new subject matter has been entered by the amendments submitted herein.

Accordingly, claims 2-23 currently stand in the present application. Claim 2 is the sole independent claim.

The Examiner rejected old claim 1 under 35 U.S.C. §101 as claiming the same invention as that of claim 1 of prior United States patent 7,390,225. Specifically, the

Examiner raised a double patenting rejection. As will be apparent to the Examiner, new claims 2-23 submitted herewith do not correspond to the "same invention" encompassed by claim 1 of United States patent 7,390,225. Accordingly, the Examiner is requested to reconsider and withdraw the rejection of old claim 1 under 35 U.S.C. §101.

In order to advance prosecution of the present application, Applicant submits herewith a Terminal Disclaimer in relation to United States Patent 7,390,225.

Applicant submits that none of the prior art references of record teach or suggest the subject matter of new claim 2. Specifically, none of the prior art references of record teach or suggest a lamp device having a longitudinal axis, a first elongate electrical connector and a second elongate electrical connector and having the combined features of those connectors being aligned in a spaced relationship along the longitudinal axis, together with each of those connectors being configured to form an oblique angle with respect to the longitudinal axis.

In view of the above, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3507. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Attorney for Applicants
Richard P. Bauer
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN, L.L.P.
2900 K Street, N.W. / Suite 200
Washington, D.C. 20007-5118
Facsimile No.: (202) 298-7570

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	May 26, 2009 (Monday)

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

TERMINAL DISCLAIMER

Sir:

Your petitioner, Trojan Technologies, a Canadian corporation having a principal place of business at 3020 Gore Road, London, Ontario, Canada N5V, and duly represented by the undersigned, represents that it is the assignee of the full right, title, and interest in and to the above-identified Application No. 12/098,363, filed April 4, 2008, and in and to U.S. Patent No. 7,390,225, as evidenced by the deeds of Assignment recorded at Reel No. 019167, Frame No. 0177, and at Reel No. 020642, Frame 0353.

Your petitioner hereby disclaims the terminal part of any patent granted on the above-identified application which would extend beyond the expiration date of the full statutory term of U.S. Patent No. 7,390,225, as presently shortened by any terminal disclaimer,

and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to U.S. Patent No. 7,390,225, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

Your petitioner does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of U.S. Patent No. 7,390,225, as presently shortened by any terminal disclaimer, in the event that subsequent hereto U.S. Patent 7,390,225 expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is the subject of any disclaimer under 37 C.F.R. 1.321(a), has all claims canceled by a reexamination certificate or is otherwise terminated prior to the expiration of its statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

The evidentiary documents referred to in the instant Terminal Disclaimer have been reviewed by the undersigned, and it is certified that to the best of assignee's knowledge and belief, title is in the assignee.

The undersigned is empowered to act on behalf of the assignee.

The Commissioner is hereby authorized to charge Deposit Account No. 50-1710 for the fee for submission of this Terminal Disclaimer. A copy of this paper is attached herewith for that purpose.

By: /Richard P. Bauer/
Richard P. Bauer
Reg. No. 31,588
Attorney For Applicants

Date: May 26, 2009

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Debbie Warren
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	1202	2	52	104
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $0 paid	1253	1	1110	1110
Miscellaneous:				
Statutory disclaimer	1814	1	140	140
		Total in USD ($)		**1354**

Electronic Acknowledgement Receipt

EFS ID:	5392267
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Debbie Warren
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	26-MAY-2009
Filing Date:	04-APR-2008
Time Stamp:	13:03:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1354
RAM confirmation Number	8894
Deposit Account	501710
Authorized User	

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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing 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		2009-05-26-Amendment-EOT-213202-00595.pdf	250810 acfd020becf9105e061af43e282b7a4a5264d508	yes	10
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Extension of Time		1	1	
	Amendment/Req. Reconsideration-After Non-Final Reject		2	2	
	Claims		3	7	
	Applicant Arguments/Remarks Made in an Amendment		8	10	
Warnings:					
Information:					
2	Terminal Disclaimer Filed	2009-05-25-Terminal-Disclaimer-213202-00595.pdf	83428 315cbaa3c3662b12c8d5308be5df8585791b5bed	no	3
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	34000 765904f8635ef0c195816cce53667315aa858328	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	368238		

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.

Attorney Docket No.: **213202-00595** PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: NGUYEN, Phuongchi T.
ELKU, Joseph, et al.	)	
	:	Group Art Unit: 2839
Application No.: 12/098,363	)	
	:	Confirmation No.: 2154
Filed: April 4, 2008	)	
	:	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	May 26, 2009 (Monday)

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

AMENDMENT AND PETITION FOR EXTENSION OF TIME

Sir.

Applicants petition to extend the time for response to the November 24, 2008 Office Action to May 26, 2009 (Monday). Please charge Deposit Account 50-1710 for payment of the extension fee. Any additional fee required, and any overpayments should also be charged to Deposit Account No. 50-1710.

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	12098363
Filing Date	2008-04-04
First Named Inventor	Joseph Elku
Art Unit	2839
Examiner Name	Phuongchi T. Nguyen
Attorney Docket Number	213202-00595

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4070084	A	1978-01-24	Hutchison	
	2	6254252	B1	2001-07-03	Coushaine et al.	
	3	6354843	B1	2002-03-12	Kato	
	4	6488510	B2	2002-12-03	Li	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020168881	A1	2002-11-14	Hwang et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	12098363
	Filing Date	2008-04-04
	First Named Inventor	Joseph Elku
	Art Unit	2839
	Examiner Name	Phuongchi T. Nguyen
	Attorney Docket Number	213202-00595

	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report for International Application No. PCT/CA2006/001040, published as WO 2006/13026 A1 on December 28, 2006.	☐
	2	January 10, 2008 Transmittal and International Preliminary Report on Patentability for International Application No. PCT/CA2006/001040, which was published as WO 2006/13026 A1 on December 28, 2006.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	12098363
Filing Date	2008-04-04
First Named Inventor	Joseph Elku
Art Unit	2839
Examiner Name	Phuongchi T. Nguyen
Attorney Docket Number	213202-00595

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Richard P. Bauer/	Date (YYYY-MM-DD)	2009-05-26
Name/Print	Richard P. Bauer	Registration Number	31588

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour 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.**

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 record s.

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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/001040

A. CLASSIFICATION OF SUBJECT MATTER
IPC: ***H01J 5/50*** (2006.01) , ***F21V 23/06*** (2006.01) , ***A61L 2/10*** (2006.01) , ***H01J 61/36*** (2006.01)
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: H01J 5/50 (2006.01) , F21V 23/06 (2006.01) , A61L 2/10 (2006.01) , H01J 61/36 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
Canadian Patent Database, Delphion, Inspec, USPTO West. Search terms: lamp connector, wall lamp, longitudinal axis, electrical connector, parallel connectors, fluid treatment.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6254252 (COUSHAINE ET AL) 03 Jul 2001 (03-07-2001). Abstract, col. 3, lines 14 to 35 and Figs. 1-2.	1-7, 16, 19-21.
X	US 6488510 (LI) 03 Dec 2002 (03-12-2002). Col. 2, line 63 to col. 3, line 8, Figs. 1-2.	1-7, 10, 16, 19-21.
X	US 2002/0168881 (HWANG ET AL) 14 Nov 2002 (14-11-2002). Abstract, paragraph [0011], page 1, to paragraph [0017], page 2, Figs. 3, 4A to 4H.	1-7, 16, 19-21.

[ ] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 October 2006 (16-10-2006)	7 November 2006 (07-11-2006)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476	Authorized officer Humberto Castaneda 819- 994-7473

UVES-Exhibit 1002-Page 266

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2006/001040

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6254252	03-07-2001	DE10023428 A1	01-02-2001
		NL1015176 A1	20-11-2000
		NL1015176C C2	08-10-2001
US6488510	03-12-2002	NONE	
US2002168881	14-11-2002	US6843656 B2	18-01-2005

Electronic Patent Application Fee Transmittal

Application Number:	12098363
Filing Date:	04-Apr-2008
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Allen Rose
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	5395908
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Allen Rose
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	26-MAY-2009
Filing Date:	04-APR-2008
Time Stamp:	16:07:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	2643
Deposit Account	501710
Authorized User	

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 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	2009-05-26-Signed-SB08A.pdf	521866 9f8b6f309399204a8a94eeac97600b282bee706c	no	4
Warnings:					
Information:					
2	NPL Documents	ISR.pdf	109739 e3b2247392a3e38a5e62b1ef6b3ff6ffff6d4e98	no	2
Warnings:					
Information:					
3	NPL Documents	IPER.pdf	310059 a1b05c6a0c999d885342bf59c407568bedb4ed30	no	8
Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	30511 cf0ee6bd6c6e2b0829ad221b53248c4cb76fae68	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	972175		

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

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New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
12/098,363	04/04/2008	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $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).						
☐ 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 05/26/2009	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 22	Minus	** 20	= 2	X $ =		OR	X $52=	104
Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X $ =		OR	X $220=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	104

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/LAVINIA JOHNSON/

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

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

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
12/098,363	04/04/2008	Joseph ELKU	213202-00595

CONFIRMATION NO. 2154

IMPROPER CFR REQUEST

27160
KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118



Date Mailed: 02/04/2009

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The application(s) to which priority is claimed were filed over a year prior to the filing date of this application. Therefore, the referenced application(s) cannot be claimed as domestic or foreign priority.

/hsarwari/

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Joseph Elku, et al.	)	Group Art Unit: 2821
	)	
Application No.: 12/098,363	)	Examiner: To Be Assigned
	)	
Filed: April 4, 2008	)	Confirmation No.: 2154
	)	
For: RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	)	January 27, 2009

Assistant Commissioner for Patents
U.S. Patent and Trademark Office
Office of Initial Patent Examination's
Filing Receipt Corrections
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

The Filing Receipt for the above-referenced application, in the "Domestic Priority data as claimed by applicant" section, states as follows:

"This application is a CON of 11/626,756 01/24/2007
which is a CIP of PCT/CA2006/001040 06/27/2006"

However, under "Domestic Priority data as claimed by applicant", the priority data should appear as follows:

"This application is a CON of 11/626,756 1/24/2007
which is a CIP of PCT/CA2006/001040 06/27/2006
and claims benefit of 60/698,502 06/24/2005"

Also, enclosed is a copy of the Filing Receipt mailed on April 24, 2008 with the requested correction noted in the Domestic Priority data as claimed by applicant.

Applicants respectfully request that a Corrected Filing Receipt be mailed for this application.

Applicants' undersigned attorney can be reached at (202) 625-3500. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Richard P. Bauer/
Richard P. Bauer
Attorney for Applicants
Registration No. 31,588

PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
2900 K Street NW
Suite 200
Washington, D.C. 20007
Fax: (202) 625-3538

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
12/098,363	04/04/2008	2821	1030	213202-00595	1	1

CONFIRMATION NO. 2154

27160
PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
1025 THOMAS JEFFERSON STREET, N.W.
EAST LOBBY: SUITE 700
WASHINGTON, DC 20007-5201

FILING RECEIPT



Date Mailed: 04/24/2008

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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. 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)

Joseph ELKU, Tillsonburg, CANADA;
Jim Fraser, St. Thomas, CANADA;
Richard Gratton, London, CANADA;

Assignment For Published Patent Application

Trojan Technologies, London, CANADA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 11/626,756 01/24/2007
which is a CIP of PCT/CA2006/001040 06/27/2006
and claims benefit of 60/693,502 06/24/2005

Foreign Applications

If Required, Foreign Filing License Granted: 04/22/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/098,363**

Projected Publication Date: 07/31/2008

Non-Publication Request: No

Early Publication Request: No

Title

RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

Preliminary Class

315

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	4681763
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Allen Rose
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	27-JAN-2009
Filing Date:	04-APR-2008
Time Stamp:	12:26:23
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	Request for Corrected Filing Receipt	Request-for-Corrected-Filing-Receipt.PDF	215627 22ea5e881260fbb5e47d8d98d23b7f4985c3baaa	no	5

Warnings:	
Information:	

Total Files Size (in bytes):	215627

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.

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/098,363	04/04/2008	Joseph ELKU	213202-00595	2154

27160 7590 11/24/2008

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118

EXAMINER	
NGUYEN, PHUONGCHI T	
ART UNIT	**PAPER NUMBER**
2839	
MAIL DATE	**DELIVERY MODE**
11/24/2008	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONG NGUYEN	2839	

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

Period for Reply

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

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

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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

4)☒ Claim(s) *1* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *4/4/08* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Double Patenting

1. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See Miller v. Eagle Mfg. Co., 151 U.S. 186 (1894); In re Ockert, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

2. Claim 1 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of prior U.S. Patent No. 7,390,225. This is a double patenting rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONG NGUYEN whose telephone number is (571)272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C. Patel can be reached on (571) 272-2089. 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.

/P. N./

for Patel Tulsidas, Examiner of Art Unit 2800

/Neil Abrams/

Primary Examiner, Art Unit 2839

Notice of References Cited	Application/Control No. 12/098,363	Applicant(s)/Patent Under Reexamination ELKU ET AL.	
	Examiner PHUONG NGUYEN	Art Unit 2839	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2,869,104	01-1959	PLEAK HORACE C	439/617
*	B	US-1965127	02-1997	Devlin et al.	439/144
*	C	US-7,390,225	06-2008	Elku et al.	439/660
	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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/17/2008								
	1	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12098363	ELKU ET AL.
	Examiner	Art Unit
	PHUONG NGUYEN	2839

SEARCHED			
Class	Subclass	Date	Examiner
439	617, 611, 682, 683	11/17/08	pn

SEARCH NOTES		
Search Notes	Date	Examiner

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/098,363	ELKU ET AL.	
	Examiner	Art Unit	
	PHUONG NGUYEN	2839	

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S6	227	(439/617).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/11/17 21:35
S11	375	(439/611).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/11/17 22:04
S13	540	(439/682).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/11/17 22:14
S14	447	(439/683).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/11/17 22:20

11/17/08 10:21:52 PM
C:\Documents and Settings\Pnguyen4\My Documents\EAST\Workspaces\12\12098363.wsp

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

BIB DATA SHEET

CONFIRMATION NO. 2154

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/098,363	04/04/2008	~~315~~ 439	2839	213202-00595

APPLICANTS

Joseph ELKU, Tillsonburg, CANADA;
Jim Fraser, St. Thomas, CANADA;
Richard Gratton, London, CANADA;

**** CONTINUING DATA ***************************

This application is a CON of 11/626,756 01/24/2007 PAT 7,390,225
which is a CIP of PCT/CA2006/001040 06/27/2006

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

04/22/2008

Foreign Priority claimed	❑ Yes ☑ No	❑ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	❑ Yes ☑ No		CANADA	14	1	1
Verified and Acknowledged	/PHUONG T NGUYEN/ Examiner's Signature	Initials				

ADDRESS

KATTEN MUCHIN ROSENMAN LLP
(C/O PATENT ADMINISTRATOR)
2900 K STREET NW, SUITE 200
WASHINGTON, DC 20007-5118
UNITED STATES

TITLE

RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

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CONFIRMATION NO. 2154

27160
PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
2900 K Street NW
Suite 200
WASHINGTON, DC 20007-5118

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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
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CONFIRMATION NO. 2154

27160
PATENT ADMINISTRATOR
KATTEN MUCHIN ROSENMAN LLP
1025 THOMAS JEFFERSON STREET, N.W.
EAST LOBBY: SUITE 700
WASHINGTON, DC 20007-5201

FILING RECEIPT

OC00000029532001

Date Mailed: 04/24/2008

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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. 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)

Joseph ELKU, Tillsonburg, CANADA;
Jim Fraser, St. Thomas, CANADA;
Richard Gratton, London, CANADA;

Assignment For Published Patent Application

Trojan Technologies, London, CANADA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 11/626,756 01/24/2007
which is a CIP of PCT/CA2006/001040 06/27/2006

Foreign Applications

If Required, Foreign Filing License Granted: 04/22/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/098,363**

Projected Publication Date: 07/31/2008

Non-Publication Request: No

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Title

RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

Preliminary Class

315

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PTO/SB/14 (08-05)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	213202-00595
	Application Number	
Title of Invention	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	

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.
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☐ 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

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
	Joseph		ELKU	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Tillsonburg	Country Of Residence[i]	CA

Citizenship under 37 CFR 1.41(b)[i] CA

Mailing Address of Applicant:

Address 1	123 Glandale Drive South		
Address 2			
City	Tillsonburg	State/Province	ON
Postal Code	N4G 5V9	Country[i]	CA

Applicant 2

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
	Jim		FRASER	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	St. Thomas	Country Of Residence[i]	CA

Citizenship under 37 CFR 1.41(b)[i] CA

Mailing Address of Applicant:

Address 1	54 Rosebery Place		
Address 2			
City	St. Thomas	State/Province	ON
Postal Code	N5R 2H7	Country[i]	CA

Applicant 3

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
	Richard		GRATTON	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	London	Country Of Residence[i]	ON

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	213202-00595
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Title of Invention	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	

Citizenship under 37 CFR 1.41(b) i	CA			
Mailing Address of Applicant:				
Address 1	132 St. Clair Crescent			
Address 2				
City	London	**State/Province**	ON	
Postal Code	N6J 3V9	**Country**i	CA	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.			Add	

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☐ **An Address is being provided for the correspondence Information of this application.**			
Customer Number	27160		
Email Address	richard.bauer@kattenlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME		
Attorney Docket Number	213202-00595	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	14	**Suggested Figure for Publication (if any)**	
Publication Information:			
☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)			
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	213202-00595
	Application Number	
Title of Invention	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	
Customer Number	27160	

Domestic Priority Information:

This section allows for the applicant to claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c). 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	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	11626756	2007-01-24
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11626756	Continuation in part of	PCT/CA2006/001040	2006-06-27
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/CA2006/001040	non provisional of	60693502	2005-06-24

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Foreign Priority Information:

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			Remove
Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			○ Yes ◉ No

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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

If the Assignee is an Organization check here. ☑

Organization Name	Trojan Technologies

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	213202-00595
	Application Number	
Title of Invention	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME	

Mailing Address Information:			
Address 1	3020 Gore Road		
Address 2			
City	London	**State/Province**	ON
Country [i]	CA	Postal Code	N5V 4T7
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the **Add** button.			

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				Date (YYYY-MM-DD)	2008-04-04
First Name	Richard	Last Name	Bauer	Registration Number	31588

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RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of U.S. Patent Application No. 11/626,756, filed January 24, 2007, which is a continuation-in-part of International Patent Application No. PCT/CA2006/001040, with an international filing date of June 27, 2006, which claims priority under 35 U.S.C. § 119(e) to U.S. Provisional Patent Application No. 60/693,502, filed June 24, 2005, the entire contents of each of which are incorporated by reference herein.

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

[0002] In one of its aspects, the present invention relates to a lamp device. In another of its aspects, the present invention relates to a radiation lamp. In yet another of its aspects, the present invention relates to a radiation source assembly. In yet another of its aspects, the present invention relates to a radiation source module. In yet another of its aspects, the present invention relates to a fluid treatment system. In yet another of its aspects, the present invention relates to a water disinfection system.

BACKGROUND INFORMATION

[0003] Fluid treatment systems such as water disinfection systems are generally known in the art.

[0004] See, for example, one or more of the following United States patents:

Re36,896,

3,418,370,

4,482,809,

4,872,980,

5,006,244,

5,471,063,

5,504,355,

5,538,210,

6,342,188,

6,500,346,

6,507,028,

6,646,269,

6,674,084,

6,803,586, and

6,863,078.

[0005] Many of the above-identified United States patents teach fluid treatment systems that employ ultraviolet (UV) radiation to kill, sterilize and/or prevent replication of microorganisms (bacteria, viruses, pathogens and the like) that may be present in the fluid.

[0006] Generally, such conventional fluid treatment systems employ an ultraviolet radiation lamp to emit radiation of a particular wavelength or range of wavelengths (usually between 185 and 400 nm) to kill, sterilize and/or prevent replication of microorganisms (bacteria, viruses, pathogens and the like) that may be present in the fluid.

[0007] Conventional ultraviolet radiation lamps include low pressure lamps, medium pressure lamps, low pressure high output lamps and the like.

[0008] In more recent years, it has become conventional to use such ultraviolet lamps configured to have all of the electrical connections disposed at one end of the lamp. See, for example, Figures 2-8 of United States Patent No. 4,700,101 [Ellner, et al. (Ellner)] and Figures 1, 2 and 4 of United States Patent No. 5,166,527 [Solymar].

[0009] As can be seen from the conventional radiation lamps taught by Ellner and Solymar, the electrical connection pins are elongate and are disposed such that the axes of the pins are parallel with the longitudinal axes of radiation lamp. In other words, the electrical connection is made by pushing an end cap or other connection base on to the pins in a direction parallel to the longitudinal axis of the radiation lamp.

[0010] The problem with this approach is that in many applications, the radiation lamp is immersed in a flow of water and turbulence created within that water treatment system invariably imparts a vibratory motion to the lamps which frequently results in lamps being vibrated or shaken loose of its electrical connection base or socket thereby causing the lamps to be rendered completely or intermittently inoperative. When such an event occurs, the water being treated may not be fully disinfected.

[0011] More recently, other attempts to address this problem have used a relatively complicated mechanical connection (e.g., a so-called "push-and-twist" connection) to secure the lamp to the connection base. See, for example, United States Patent No. 5,422,487 [Sauska, et al. (Sauska)] and United States Patent No. 6,884,103 [Kovacs]. The problem with these approaches is the complexity of the mechanical connection between the lamp and the base unit requiring the use of springs, specialized connection lugs and the like. Further, a connection system which is predicated on a dual motion system such that pushing and twisting gives rise to a higher incidents of lamp breakage and other damage to the module by field personal.

[0012] Accordingly, there remains the need in the art for a lamp device, particularly a radiation lamp, which will provide a reliable electric connection on the one hand, yet be relatively inexpensive, uncomplicated and simple to implement on the other hand.

SUMMARY OF THE INVENTION

[0013] It is an object of the present invention to obviate or mitigate at least one of the above-mentioned disadvantages of conventional fluid treatment systems.

[0014] Accordingly, in one of its aspects, the present invention provides a lamp device comprising a longitudinal axis, a first elongate electrical connector and a second elongate

electrical connector, each of the first elongate electrical connector and the second elongate connector being non-parallel with respect to the longitudinal axis.

[0015] In another of its aspects, the present invention relates to a radiation source assembly comprising such a lamp device, together with a radiation transparent protective sleeve.

[0016] In another of its aspects, the present invention provides a radiation lamp comprising: an elongate radiation-emitting cavity having a longitudinal axis; a first electrical connection base disposed at a first end of the elongate radiation-emitting cavity; a pair of first elongate electrical connectors and a pair of second elongate electrical connectors disposed in the first electrical connection base; each of the first elongate electrical connector and the second elongate connector being non-parallel with respect to the longitudinal axis.

[0017] In yet another of its aspects, the present invention provides a radiation source module comprising such a radiation lamp and a first support member for supporting the radiation lamp, the first support member comprising a second electrical connection base for engagement with the first electrical connection base and connection to a power supply.

[0018] Other aspects of the present invention relate to fluid treatment systems and water disinfection systems incorporating the above lamp device, radiation source assembly, radiation lamp and radiation source module, respectively.

BRIEF DESCRIPTION OF THE DRAWINGS

[0019] Embodiments of the present invention will be described with reference to the accompanying drawings, wherein like reference numerals denote like parts, and in which:

[0020] Figures 1-4 illustrate components of a first preferred embodiment of the present lamp device.

[0021] Figures 5-8 illustrate portions of a second preferred embodiment of the present lamp device.

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[0022] Figures 9-14 illustrate portions of a third preferred embodiment of the present lamp device.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0023] Preferred embodiments of the present invention will be described below with reference to Figures 1-14. In Figures 1-14, there is shown in detail the electrical connection portion of a radiation lamp and/or the connection thereof to a complementary base unit. The remaining detail of the lamp is not shown for easier understanding. However, those of skill in the art will readily recognize how the specific connection shown in the Figures can be implemented in a lamp design by reference to the various prior art patents referred to above.

[0024] With reference to Figures 1-4, there is illustrated a first electrical base unit 100 and a second electrical base unit 150.

[0025] First electrical connection base unit 100 comprises a housing 102. An end portion 104 of unit 100 comprises a first pair of electrical connectors 106 and a second pair of electrical connectors 108.

[0026] End portion 104 comprises an undulating shape having a series of peaks 110 and valleys 112. Electrical connectors 106, 108 are connected to wire or other suitable electrical conveyance (not shown) disposed within housing 102 which is then connected to the radiation-emitting cavity of the lamp in a conventional manner.

[0027] With particular reference to Figure 2, there is illustrated an enlarged view of base unit 150. As shown, base unit 150 comprises a first pair of electrical receptacles 152 and a second pair of electrical receptacles 154. These receptacles are disposed at a first end portion 156 of base unit 150. Disposed at another end portion 158 of base unit 150 is a sealing system which functions in a manner similar to that described in United States Patent Nos. 4,872,980 and 5,006,244 referred to above. Specifically, end portion 158 comprises a pair of annular seals 160 that serve to seal the interior of a radiation transparent protective sleeve (Figure 4) placed over the radiation lamp.

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[0028] Also disposed on end portion 158 is a stop portion 162 that serves as stop for the open end of protective sleeves surrounding the lamp.

[0029] Portion 158 further comprises a pair of annular seals 164 that serve to seal against water ingress into the frame of a module in which the lamp is placed (again, reference can be made to United States Patent Nos. 4,872,980 and 5,006,244 for further details on the function of the seals).

[0030] Electrical receptacles 152, 154 are wired in a conventional manner with the electrical wires or other electrical conveyance emerging from an aperture 166 in end portion 158 connection unit 150.

[0031] With particular reference to Figure 3, it will be seen that when base unit 100 is connected to the remaining components of the radiation lamp, there will be a longitudinal axes shown at line A through base unit 100 and the remainder of the lamp. Further, it will be seen that electrical connectors 106, 108 are elongate and have a longitudinal axis through line B. An important feature of this preferred embodiment is that line B is non-parallel with respect to line A. In other words, the longitudinal axis through each of electrical connectors 106, 108 is in a non-parallel relationship with the longitudinal axis through base unit 100 and the remainder of the radiation lamp. In the specific embodiment shown, electrical connectors 106, 108 are disposed at an acute angle α toward the radiation-emitting cavity (not shown) of the lamp.

[0032] When it is desired to engage base unit 100 with base unit 150, the base units are aligned as shown in Figure 3 and moved with respect to one another in the direction of arrow C. The engaged components are shown in Figure 4 and a radiation transparent protective sleeve 170 encases the connected units 100 and 150. As will be appreciated by those of skill in the art, once the connection is shown as made in Figure 4, the connection will withstand vibration forces conveyed to the radiation lamp. Specifically, base unit 100 will not separate from base unit 150 in a direction of arrow D, particularly when radiation transparent protective sleeve 170 is disposed over the connection.

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[0033] With reference to Figures 5-8, there is illustrated a second embodiment of the preferred invention. In the description of Figures 5-8, reference numerals will be used wherein the last two digits correspond to the same element appearing in Figures 1-4 and the first numeral will be "2" in Figures 5-8 instead of "1" in Figures 1-4. Thus, it will be seen that a first major difference between the two embodiments is that the embodiment illustrated in Figures 5-8 comprises electrical connectors 206, 208 that are angled away (β) from the radiation-emitting cavity. Another difference is that the cross-sectional shape base unit 200 in Figures 5-8 comprises a single valley 212 instead of the pair of valleys 112 in the embodiment illustrated in Figures 1-4. Yet another difference is that the cross-sectional shape base unit 200 in Figures 5-8 comprises a single peak 210 instead of the pair of valleys 110 in the embodiment illustrated in Figures 1-4. Otherwise, the embodiment shown in Figures 5-8 may be used in a manner similar to that described above with respect to Figures 1-4.

[0034] With reference to Figures 9-14, there is illustrated a third preferred embodiment of the present lamp device. More particularly, there is illustrated a first electrical base unit 300 and a second electrical base unit 350.

[0035] First electrical base unit 300 comprises a housing 302. An end portion 304 of first electrical base unit 300 comprises a first pair of electrical connectors 306 and a second pair of electrical connectors 308.

[0036] Electrical connectors 306, 308 are connected to wire or other suitable electrical conveyance (not shown) disposed within housing 302 which is then connected to the radiation-emitting cavity of the lamp in conventional manner.

[0037] End portion 304 of housing 302 further comprises a fin portion 320 which is disposed in a manner that separates electrical connectors 306 from electrical connectors 308. Fin portion 320 comprises a series of rib portions 325 which serve to support fin portion 320.

[0038] Fin portion 320 acts as a dielectric barrier so as to obviate or mitigate arcing between electrical connectors 306 and electrical connectors 308. The use of fin member 320 and rib portions 325 is optional.

[0039] With particular reference to Figure 12, there is illustrated a view of base unit 350. Base unit 350 is very similar in its design and function to base unit 150 described above with reference to Figures 1-4. In the description of Figures 9-14, reference numerals are used wherein the last two digits correspond to the same element appearing in Figures 1-4, and the first numeral will be "3" in Figures 9-14 instead of "1" in Figures 1-4.

[0040] The main difference between electrical base unit 350 in Figures 9-14 and electrical base unit 150 in Figures 1-4 is the provision in base portion 350 of a receptacle portion 351 that has a substantially complementary shape to the combination of fin portion 320 and rib portions 325 disposed in end portion 304 of electrical base unit 350.

[0041] With particular reference to Figures 11 and 14, it can been seen that a difference between the embodiments of the present invention described above with reference to Figures 1-8 and the embodiment illustrated in Figures 9-14 is the relative orientation of the electrical connectors. Specifically, in the embodiment illustrated in Figure 1, electrical connectors 106 and 108 are disposed in an offset manner with respect to line A (Figure 3) – i.e., the longitudinal axis. A similar arrangement exists in the embodiment illustrated in Figures 5-8 wherein electrical connectors 206 are offset longitudinally with respect to electrical connectors 208.

[0042] In contrast, it can be seen that electrical connectors 306 are not offset with respect to electrical connectors 308 along line A (Figure 11) in the embodiment illustrated in Figures 9-14. Thus, the distal ends of electrical connectors 306 and electrical connectors 308 are in substantial alignment along line E in Figure 11.

[0043] With reference to Figure 14, it can be seen that first electrical base unit 300 cannot be disengaged from second electrical base unit 350 along line A. Thus, when lamp device incorporating first electrical base unit 300 and second electrical base unit 350 is disposed in a protective (e.g., quartz) sleeve having a diameter very similar to that of stop portion 362, first electrical base unit 300 can not be disengaged from second electrical base unit 350 in a direction along line A. Rather, the two base units may be disengaged by relative movement thereof in the direction of line C (i.e., after removal of the protective sleeve).

[0044] While this invention has been described with reference to illustrative embodiments and examples, the description is not intended to be construed in a limiting sense. Thus, various modifications of the illustrative embodiments, as well as other embodiments of the invention, will be apparent to persons skilled in the art upon reference to this description. For example, it is possible to reverse the arrangement of electrical connectors and electrical receptacles in the illustrated embodiments – i.e., the electrical connectors would be disposed in electrical connection base unit 150,250,350 and the electrical receptacles would be disposed in electrical connection base unit 100,200,300. Also, it is possible to have a mixture of electrical connectors and electrical receptacles on electrical connection base unit 100,200,300 and a complementary mixture of electrical connectors and electrical receptacles on electrical connection base unit 150,250,350. Yet another possible modification of the illustrated embodiments relates to disposing the electrical connectors such that the longitudinal axis of the electrical connectors is substantially orthogonal to the longitudinal axis of the radiation lamp (i.e., $\alpha \approx 90°$ and $\beta \approx 90°$). Yet another modification of the illustrated embodiments relates to the use of electrical connection bases that, in cross-section, contain no peaks or valleys. It is therefore contemplated that the appended claims will cover any such modifications or embodiments.

[0045] All publications, patents and patent applications referred to herein are incorporated by reference in their entirety to the same extent as if each individual publication, patent or patent application was specifically and individually indicated to be incorporated by reference in its entirety.

UVES-Exhibit 1002-Page 307

What is claimed is:

1. A radiation lamp comprising: an elongate radiation-emitting cavity having a longitudinal axis; a first electrical connection base disposed at a first end of the elongate radiation-emitting cavity; a pair of first elongate electrical connectors and a pair of second elongate electrical connectors disposed in the first electrical connection base; each of the first elongate electrical connector and the second elongate connector being non-parallel with respect to the longitudinal axis.

UVES-Exhibit 1002-Page 308

ABSTRACT OF THE DISCLOSURE

There is disclosed a lamp device including a longitudinal axis, a first elongate electrical connector and a second elongate electrical connector, each of the first elongate electrical connector and the second elongate connector being non-parallel with respect to the longitudinal axis. The present lamp device provides a reliable electric connection on the one hand, yet is relatively inexpensive, uncomplicated and simple to implement on the other hand.

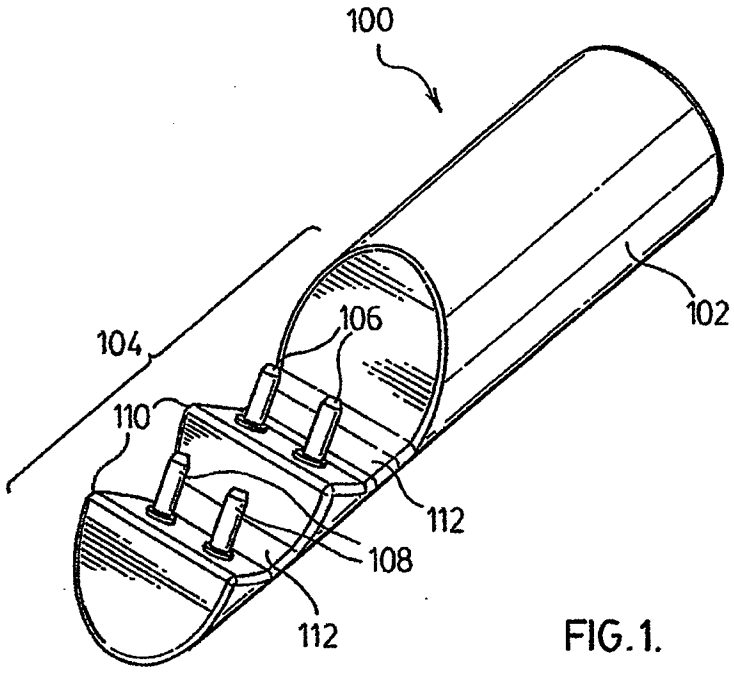


FIG. 1.

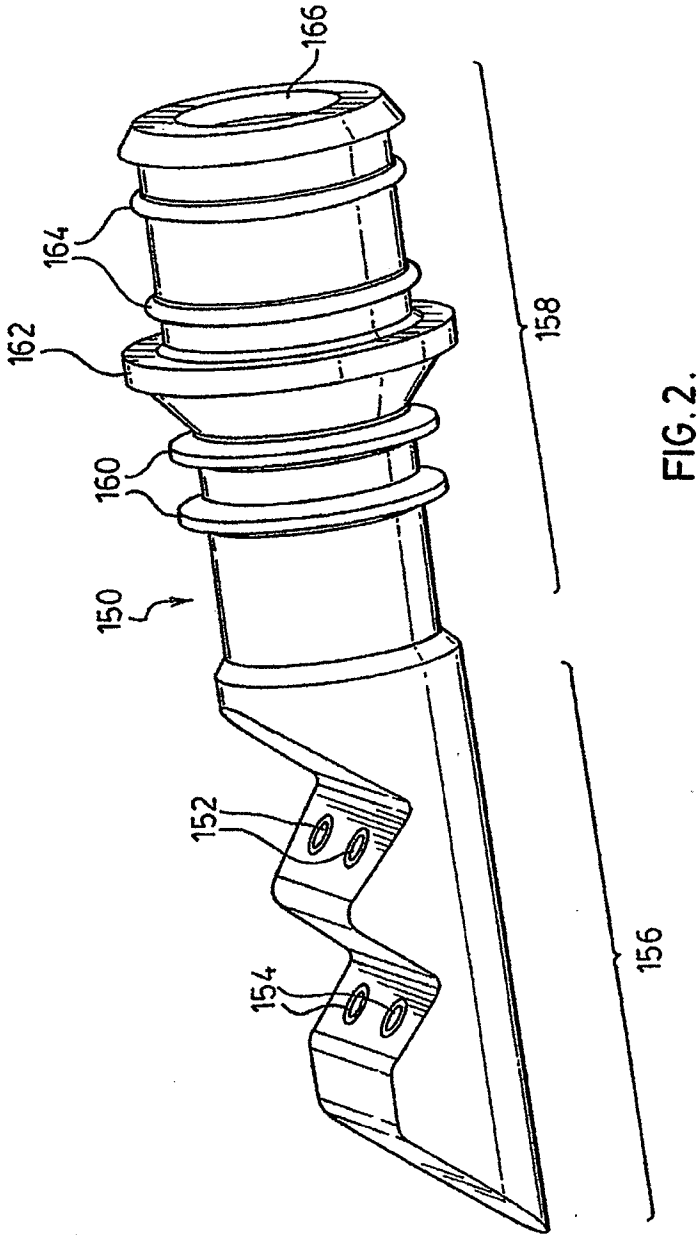


FIG. 2.

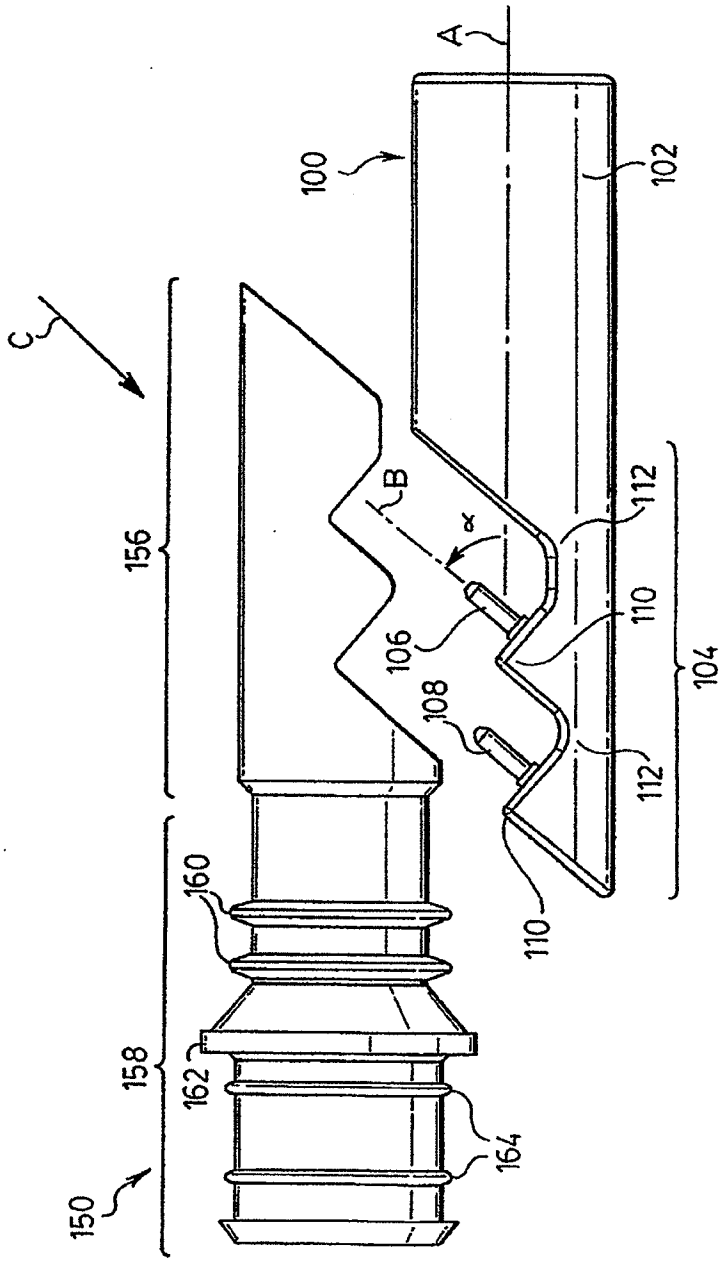


FIG. 3.

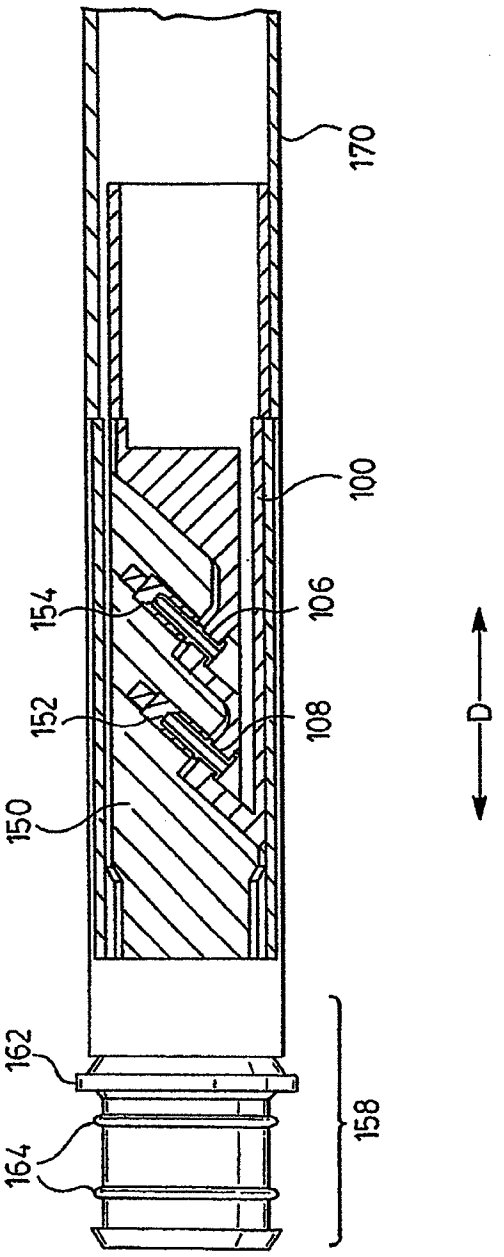


FIG.4.

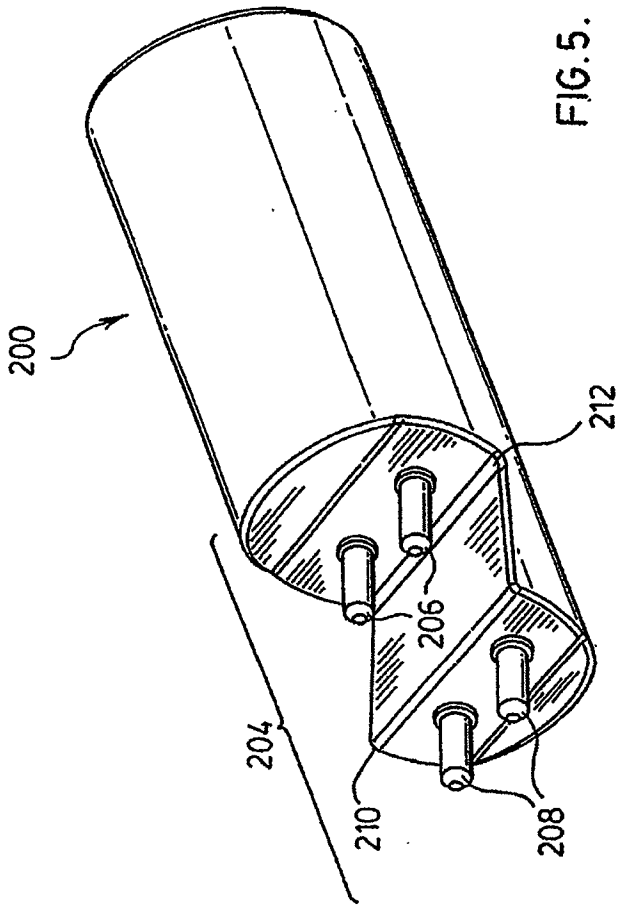


FIG.5.

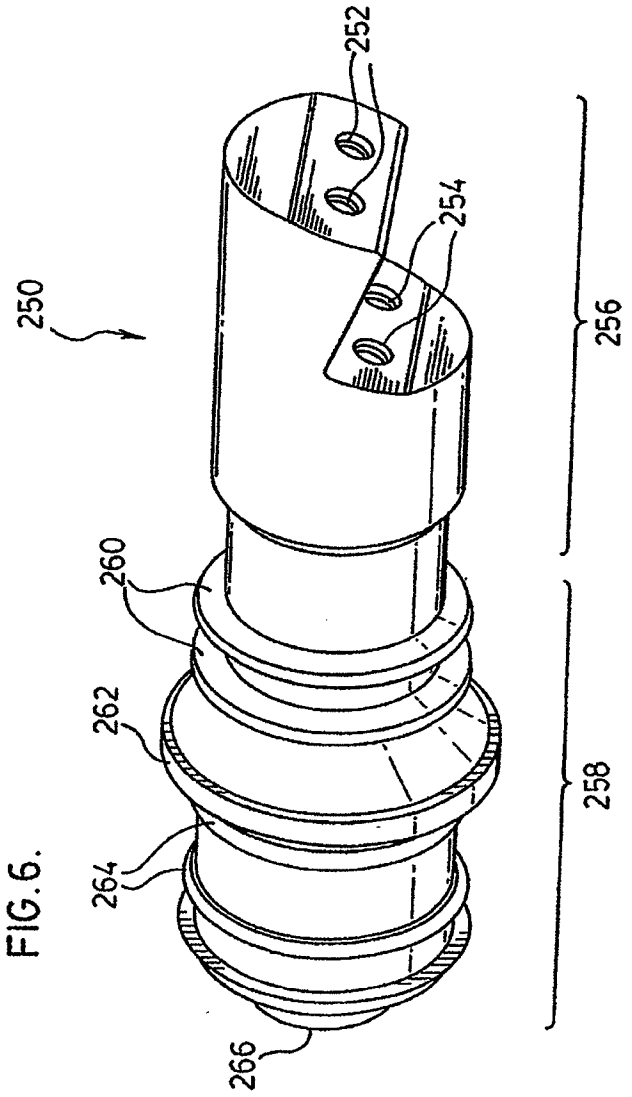


FIG.6.

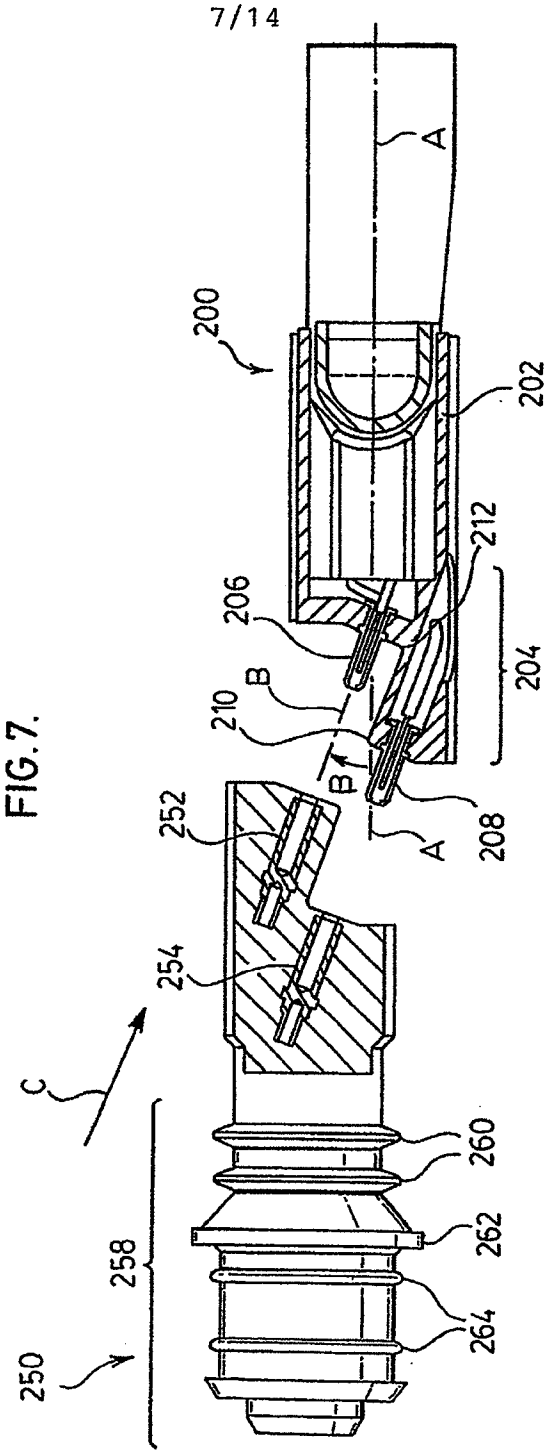


FIG.7.

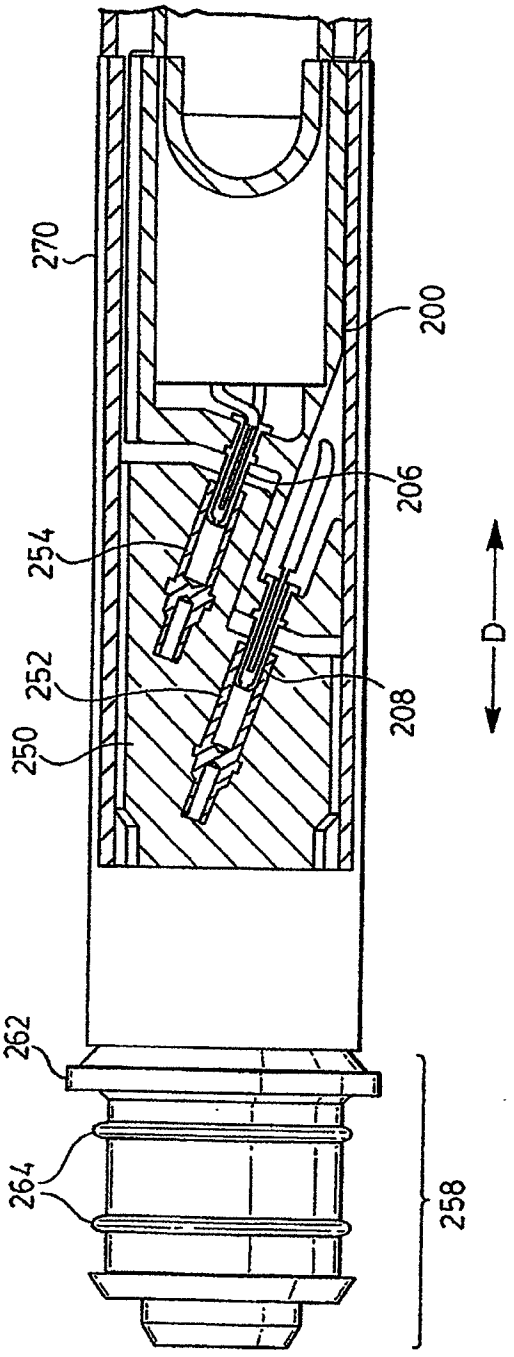


FIG.8.

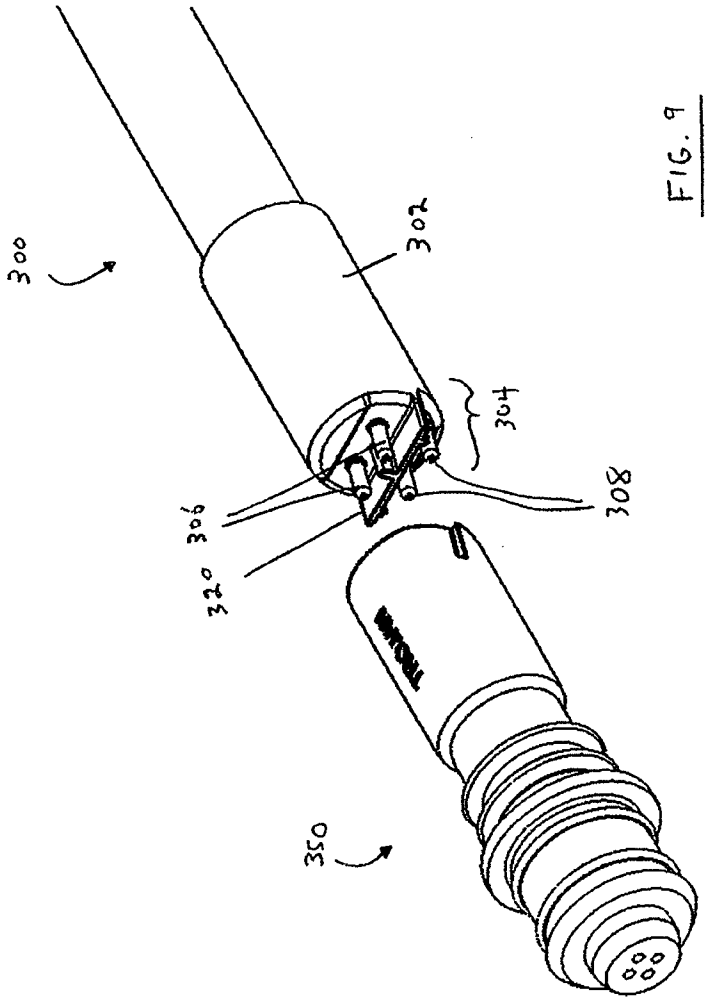


FIG. 9

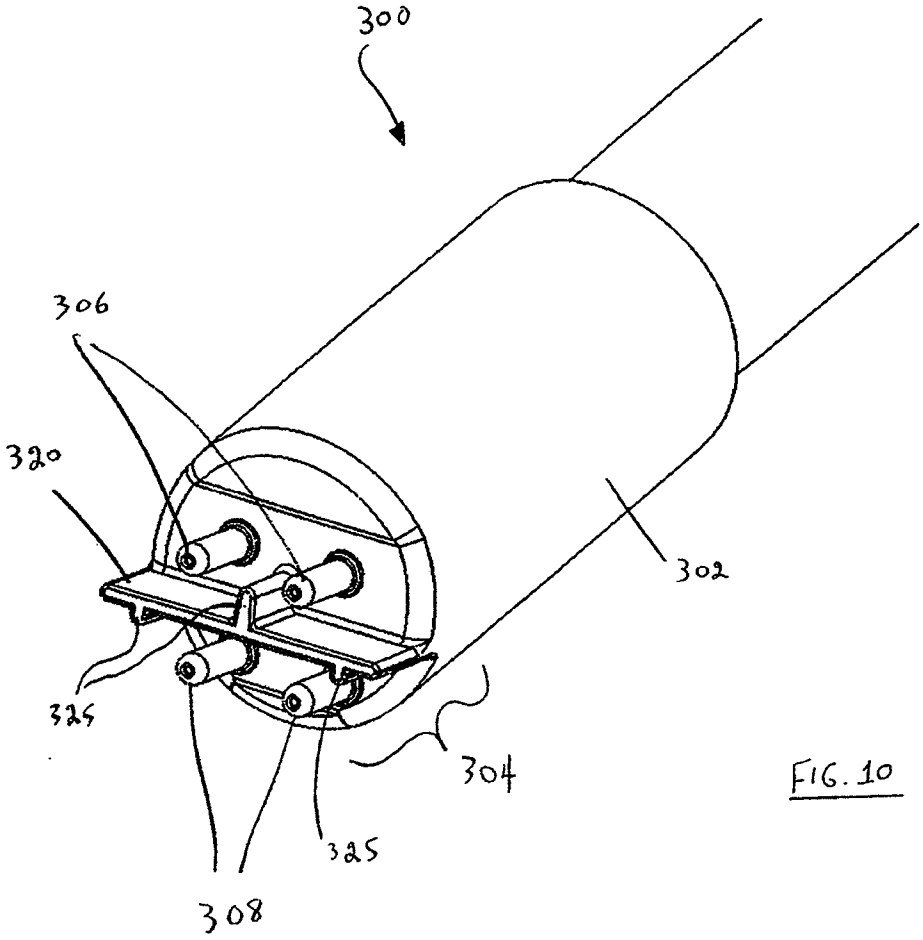


FIG. 10

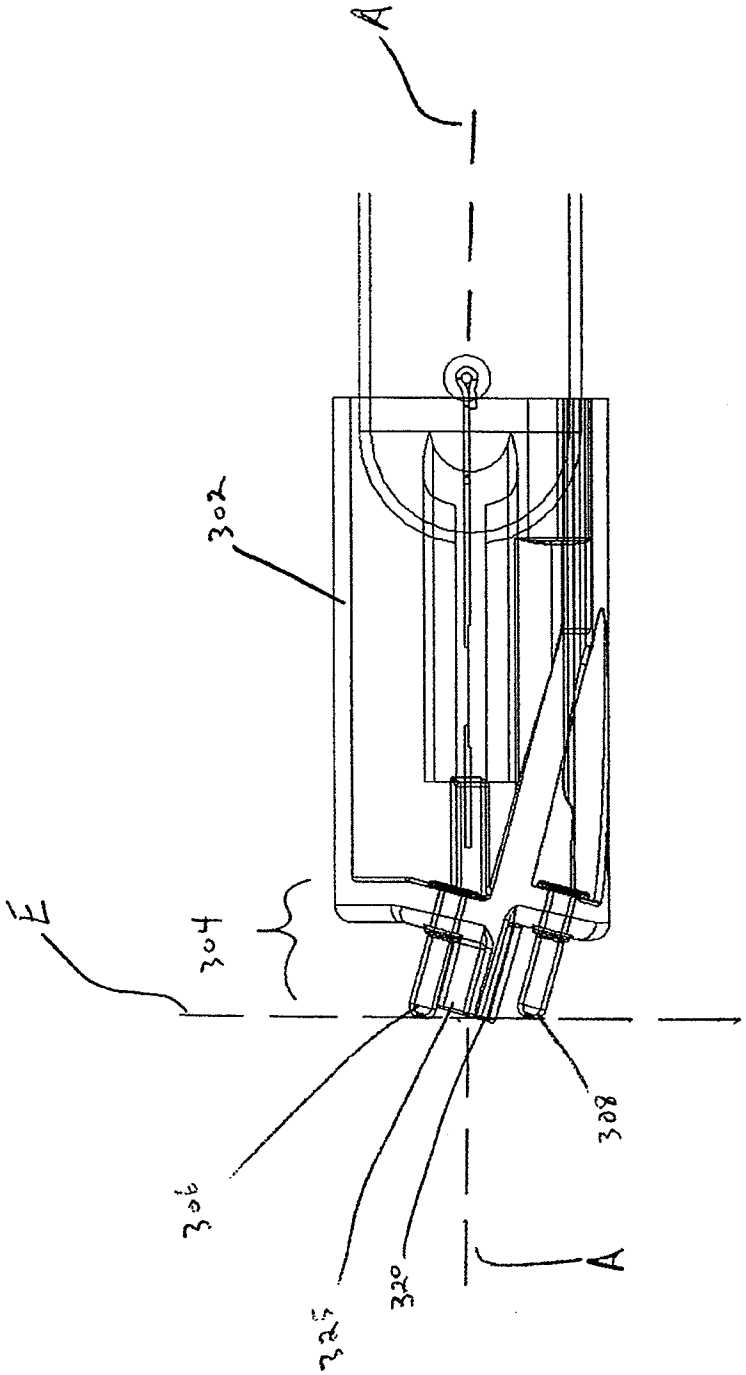


FIG. 11

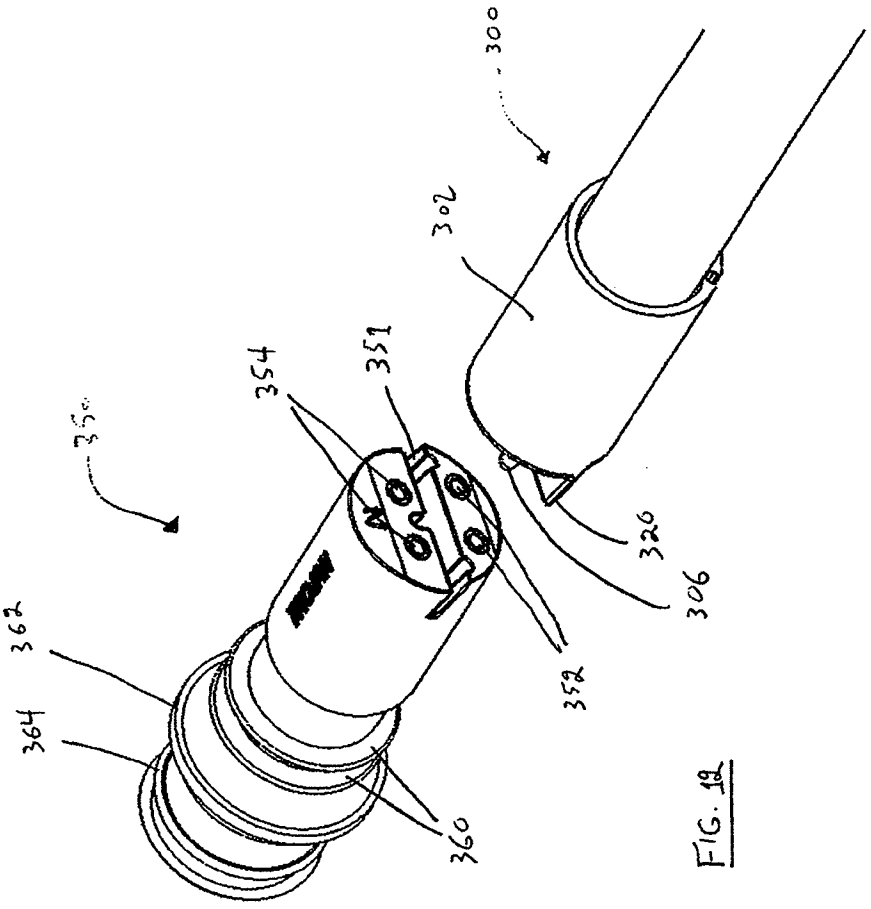


FIG. 18

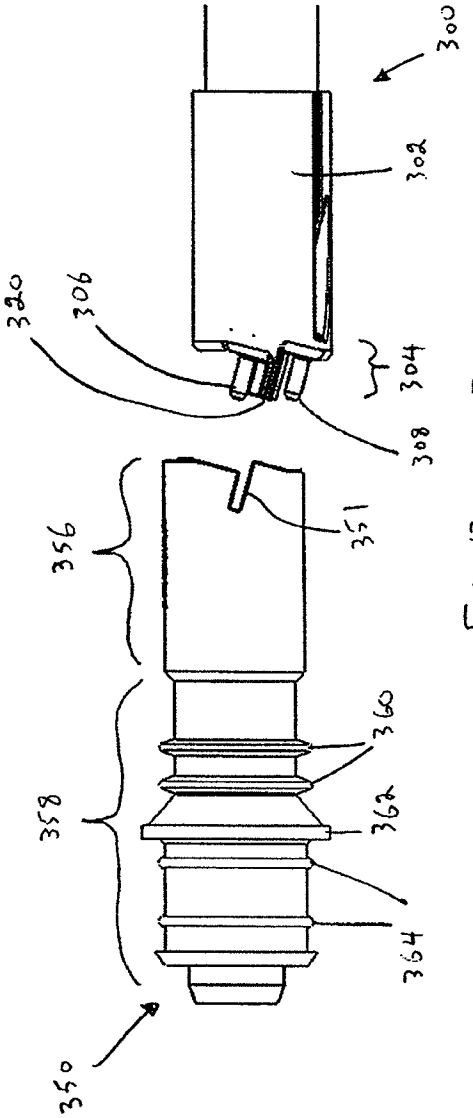


FIG. 13

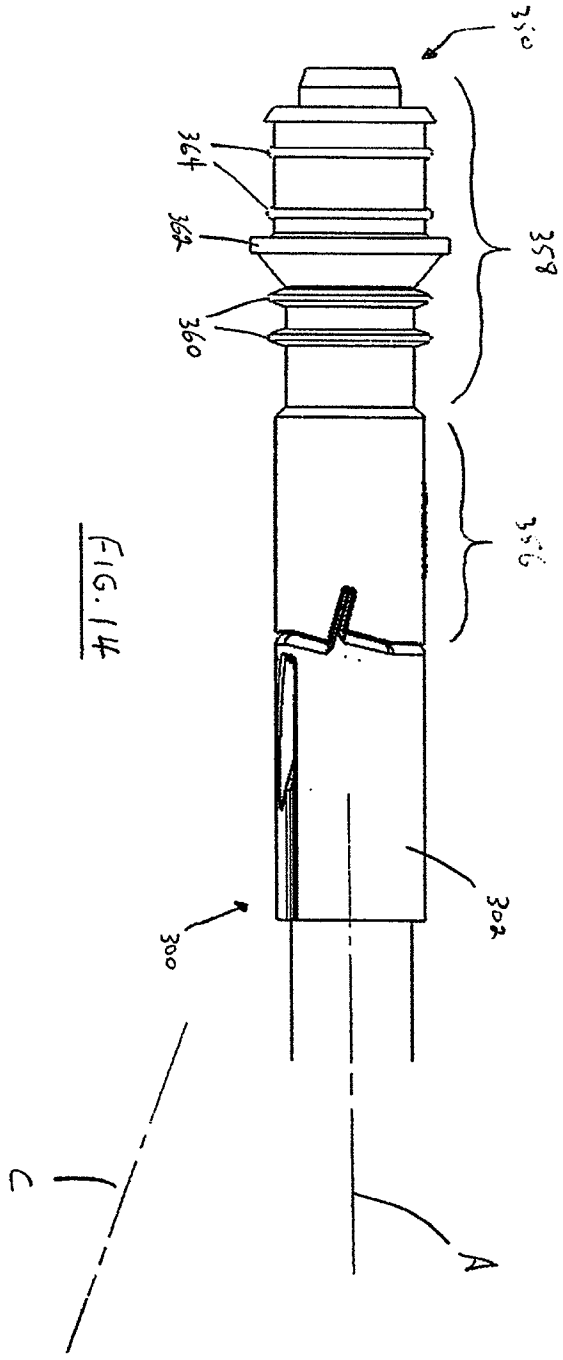


FIG. 14

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Attorney Docket Number	213202.00567
First Named Inventor	ELKU, Joseph et al.
COMPLETE IF KNOWN	
Application Number	11/626,756
Filing Date	January 24, 2007
Art Unit	2875
Examiner Name	Unassigned

☐ Declaration Submitted with Initial Filing

☒ Declaration Submitted after Initial Filing. Surcharge under 37 CFR 1.16(e) required.

AS THE BELOW NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME

☐ is attached hereto

or

☒ was filed on (MM/DD/YYYY) 01/24/2007 as United States Application Number or PCT International

Application Number 11/626,756 and was amended on (MM/DD/YYYY) _____ (if applicable).

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

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

PRIORITY INFORMATION:

I hereby claim domestic priority benefits under 35 USC 119(e) of any provisional application listed below.

I hereby claim domestic priority benefits under 35 USC 120 of any United States application, or 365(c) of any PCT international application designating the United States listed below.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application for patent, inventor's or plant breeder's rights certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Domestic or Foreign Application Number(s)	Country	Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? (for FOREIGN only)	
				YES	NO
PCT/CA06/01040	PCT	06/27/2006	☐	☐	☒
60/693,502	U.S.	06/24/2005	☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ ___ additional domestic and/or foreign application numbers are listed on a supplemental priority data sheet attached hereto.

DECLARATION – UTILITY OR DESIGN PATENT APPLICATION

CORRESPONDENCE ADDRESS

Direct all correspondence to:	☒	Customer Number or Bar Code Label	27160	or	☐	Correspondence address below

Name

Address

City | State | Zip

Country | Telephone | Fax

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

NAME OF SOLE OR FIRST INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle): **Joseph** | Family Name or Surname: **ELKU**

Inventor's Signature: Joe Elku | Date: March 28, 2007

Residence:

City **Tillsonburg** | State **Ontario** | Country **Canada** | Citizenship **Canada**

Mailing Address:

Street **123 Glandale Drive South**

City **Tillsonburg** | State **Ontario** | Zip **N4G 5V9** | Country **Canada**

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle): **Jim** | Family Name or Surname: **FRASER**

Inventor's Signature: | Date: March 28, 2007

Residence:

City **St. Thomas** | State **Ontario** | Country **Canada** | Citizenship **Canada**

Mailing Address:

Street **54 Rosebery Place**

City **St. Thomas** | State **Ontario** | Zip **N5R 2H7** | Country **Canada**

NAME OF THIRD INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle): **Richard** | Family Name or Surname: **GRATTON**

Inventor's Signature: | Date: MARCH 28 2007

Residence:

City **London** | State **Ontario** | Country **Canada** | Citizenship **Canada**

Mailing Address:

Street **132 St. Clair Crescent**

City **London** | State **Ontario** | Zip **N6J 3V9** | Country **Canada**

☐ ____ Supplemental Additional Inventors(s) Sheets(s) are attached hereto.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Filer:	RICHARD P BAUER/Wiladean Johnson
Attorney Docket Number:	213202-00595

Filed as Large Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	310	310
Utility Search Fee	1111	1	510	510
Utility Examination Fee	1311	1	210	210
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1030**

Electronic Acknowledgement Receipt

EFS ID:	3109315
Application Number:	12098363
International Application Number:	
Confirmation Number:	2154
Title of Invention:	RADIATION LAMP AND RADIATION SOURCE MODULE INCORPORATING SAME
First Named Inventor/Applicant Name:	Joseph ELKU
Customer Number:	27160
Filer:	RICHARD P BAUER/Wiladean Johnson
Filer Authorized By:	RICHARD P BAUER
Attorney Docket Number:	213202-00595
Receipt Date:	04-APR-2008
Filing Date:	
Time Stamp:	20:00:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1030
RAM confirmation Number	3786
Deposit Account	501710
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)

1	Application Data Sheet	2008-04-04_Signed_ADS_Form_SB141_for_213202-00595.pdf	267141 cf7e3e60a910fc3aabf54147c45506ade810e125	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2		213202-00595_Spec_claims_Abstract.pdf	461044 b88ac37b9bb1fe46c1096f35ea66f0a81448dea8	yes	11
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Specification		1	9	
	Claims		10	10	
	Abstract		11	11	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	213202-00595_Formal_Drawings.pdf	182961 86a99b15407e149eeab2bab48269f0e12b23022d	no	14
Warnings:					
Information:					
4	Oath or Declaration filed	213202-00595_Executed_Declaration.pdf	161344 bab9537b85a131b39492bfb287f59a4eb200a7e8	no	2
Warnings:					
Information:					
5	Fee Worksheet (PTO-06)	fee-info.pdf	8392 83081434b314c33e60723aa2767b146014cc5911	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1080882		

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.

PTO/SB/06 (12-04)

Filing Date: 04/04/08

Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 12/098,363

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	310
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	510
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	210
TOTAL CLAIMS (37 CFR 1.16(i))	1	0	X$ 25		OR	X$50	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	* 0	X$105			X$210	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due 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).						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			185			370	
			TOTAL	0		TOTAL	1030

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	X =		OR	X =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X =		OR	X =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	X =		OR	X =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X =		OR	X =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

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

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

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