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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) Title: FLAT PANEL LIGHTING DEVICE AND RETROFIT KIT

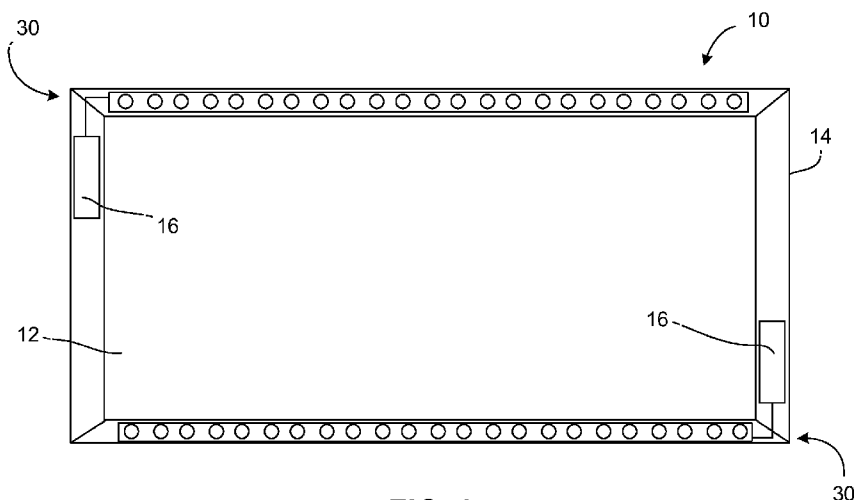


FIG. 6

(57) Abstract: The present application is directed to a light fixture (10) and associated retrofit lighting kit that includes a substantially flat light emitting diode panel (12). The light fixture (10) can be employed in a variety of applications, including installation as a standalone fixture, a replacement for a fluorescent lighting unit and as a retrofit lighting kit to be used in connection with an existing fluorescent lighting unit.



INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. F21V23/02 F21V23/00 F21V15/01 G02B6/00 H05B33/08
H05B37/02
ADD. F21Y105/00

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)

F21K F21Y F21V G02B

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 practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/068708 A1 (COPLIN BARRY CASON [US] ET AL) 24 March 2011 (2011-03-24)	1-12, 14-19, 22-27, 29-43, 45-48, 51-55, 57-59, 64-67, 69, 75-78, 90-94, 115-119
Y	paragraphs [0031], [0038], [0039], [0048] - [0050] figures 2A, 3A-3D, 5A, 6A-6C ----- -/-	20,21, 28,49, 50,56



Further documents are listed in the continuation of Box C.



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

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	US 2006/291238 A1 (EPSTEIN KENNETH A [US] ET AL) 28 December 2006 (2006-12-28) paragraphs [0042] - [0043] figure 1B -----	20,21, 28,49, 50,56,73
X	CN 201 513 783 U (HSUH TA ENTPR CO LTD) 23 June 2010 (2010-06-23) figures 1-4 -----	59-62, 64-72, 78-103, 115-127
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X	CN 201 724 032 U (SHUAILONG FU) 26 January 2011 (2011-01-26) figures 1, 2 -----	59-72, 74-89 73
X	EP 2 131 100 A1 (HARISON TOSHIBA LIGHTING CORP [JP]) 9 December 2009 (2009-12-09) paragraph [0023] figures 1, 2, 6 -----	59-72,77
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/038338

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INTERNATIONAL SEARCH REPORT

International application No.
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1-78, 90-103, 115-127(completely); 79-89(partially)
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-58

Method and kit for retrofitting an LED lighting panel in a fluorescent housing unit

2. claims: 59-78, 90-103, 115-127(completely); 79-89(partially)

Lighting fixture comprising a frame and an LED panel, characterised by the position of power circuitry with respect to the frame

3. claims: 104-114(completely); 79-89(partially)

Lighting fixture comprising a frame and an LED panel, characterised by mounting member(s) of the frame for attachment of the lighting fixture to an attachment surface
