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(54) DOWNLIGHT WITH REPLACABLE PARTS

(57) A lighting unit (1), such as a downlight, at least part of which is arranged to be mounted in an aperture in a partition, such as a ceiling, the lighting unit (1) comprising: a first housing (3), said first housing (3) having a front side (A) and a rear side (B); a solid-state lighting device (5) mounted within the first housing (3) on the front side (A) thereof; a second housing (7) mounted to the rear side (B) of the first housing (3); a driver (9) arranged to convert a mains electrical signal to an electrical signal suitable for driving the solid-state lighting device (5), wherein the driver (9) is located in the second housing (7); and an electrical connection assembly (11) that is arranged to electrically connect the driver (9) to the solid-state lighting device (5), the electrical connection assembly (11) including first and second electrical connectors (13,15) that are releasably attachable to one another to form an electrical connection and are separable from one another to break the electrical connection; wherein the driver (9) is removably mounted in the second housing (7); the solid-state lighting device (5) is removably mounted in the first housing (3).

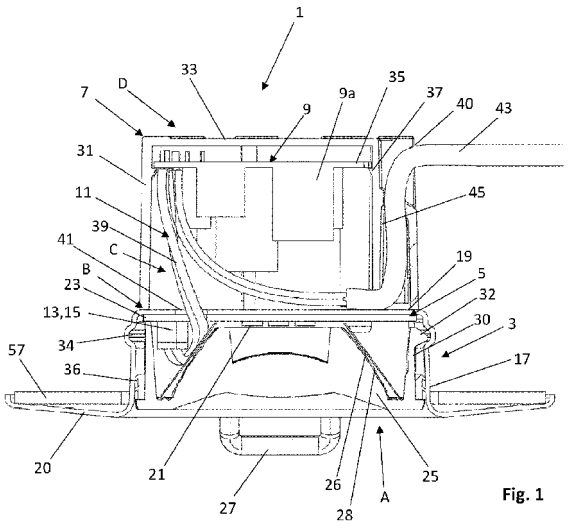

Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 24 19 0688

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X Y	US 2021/317977 A1 (JESWANI ANIL [US] ET AL) 14 October 2021 (2021-10-14) * paragraphs [0041], [0048], [0074], [0094] * * figures 1, 10 *	1,10,11, 13,14 17,19	INV. F21S8/02 F21V23/00 F21V23/06 F21V5/00 F21V17/16
X	US 2019/203894 A1 (ZENG MAOJIN [CN] ET AL) 4 July 2019 (2019-07-04) * paragraphs [0019], [0061], [0068] - [0070] * * figures 1, 4 *	1-6,8-14	ADD. F21Y115/10 F21V13/04
X	GB 2 559 891 A (AURORA LTD [GB]) 22 August 2018 (2018-08-22) * figures 3-5 *	1-4,6-14	
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X	US 2019/017688 A1 (MORALES LUIS [US] ET AL) 17 January 2019 (2019-01-17) * paragraphs [0018], [0019], [0023] * * figure 6 *	1,10,11	TECHNICAL FIELDS SEARCHED (IPC) F21S F21V F21Y
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~~The present search report has been drawn up for all claims~~

Place of search	Date of completion of the search	Examiner
The Hague	11 February 2025	Allen, Katie

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

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Application Number
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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-14, 17-19

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-14

Downlight with a first housing having a front side and a rear side; a solid-state lighting device mounted within the first housing on the front side thereof; a second housing releasably mounted to the rear side of the first housing; a driver for driving the solid-state lighting device, located in the second housing; an electrical connection assembly arranged to electrically connect the driver to the solid-state lighting device, the electrical connection assembly including first and second electrical connectors that are releasably attachable to one another to form an electrical connection, characterised by a releasable connection between first and second housings.

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2. claims: 1, 15, 16

Downlight including a first part comprising a collar and a flange; and a second part comprising the first housing and the second housing, characterised in that the second part is pivotable with respect to the first part; and a seal is arranged to seal the first part to the second part, said seal being arranged to deform to accommodate pivoting movement of the second part with respect to the first part.

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3. claims: 1, 17-19

A downlight and method for removing a lens module from a downlight, including a lens module located within a first housing, characterised by the lens module including a first flexible member having a first locating lug, wherein the first housing includes a locating formation and the first locating lug engages the first locating formation to retain the lens module within the first housing.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 24 19 0688

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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11-02-2025

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82