

Title (en)
LAMP AND CORRESPONDING METHOD

Title (de)
LAMPE UND ENTSPRECHENDES VERFAHREN

Title (fr)
LAMPE ET PROCÉDÉ CORRESPONDANT

Publication
EP 3828463 A1 20210602 (EN)

Application
EP 20206465 A 20201109

Priority
IT 201900022209 A 20191126

Abstract (en)
A lamp (10), which may be employed for instance as retrofit for automotive H7 lamps, comprises a lamp body (12, 161, 162, 20) extending in a longitudinal direction (X10) between a rear base portion (10a) and a front portion (10b). The lamp body (12, 161, 162, 20) includes a support body (12) whereon, at the front portion (10b) of the lamp body (12, 161, 162, 20), there are arranged solid-state light sources (141, 142), e.g. LED sources. In the rear base portion (10a) of the lamp body (12, 161, 162, 20) there is arranged drive circuitry (21) of the light sources (141, 142), provided with ventilation apertures (100, 101) configured to provide a flow path for ventilation air of the drive circuitry (21) through the rear base portion (10a) of the lamp body (12, 161, 162, 20), between mutually opposed first (S1) and second (S2) sides of the rear portion (10a) of the lamp body (12, 161, 162, 20). The ventilation air flow path extends, transverse to said longitudinal direction (X10), from an air inlet (100) to an air outlet (101). In the rear portion (10a) of the lamp body (12, 161, 162, 20) there is provided an air-moving element (102). Such element (102) is located in the ventilation air flow path from the air inlet (100) to the air outlet (101), and it is activatable to produce a forced ventilation air flow (AF_{IN}/sub>, AF_{OUT}/sub>) from the first side towards the second side of the rear portion (10a) of the lamp body.

IPC 8 full level
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Citation (applicant)
• US 9677753 B2 20170613 - BREIDENASSEL NICOLE [DE]
• US 10415787 B2 20190917 - LESSARD JASON [US], et al
• US 9470391 B2 20161018 - ITAGAKI NOBUTAKA [JP]
• US 8118462 B2 20120221 - INOUE TAKASHI [JP], et al
• US 8066414 B2 20111129 - PABST WOLFGANG [DE], et al
• US 7144140 B2 20061205 - SUN TSUNG-TING [TW], et al
• US 2015146447 A1 20150528 - KUEPPER LUKAS [DE], et al
• US 2011025211 A1 20110203 - BAE BYUNG AM [KR]
• US 2010165632 A1 20100701 - LIANG CHIA HAO [TW]
• US 2010027270 A1 20100204 - HUANG YAO HUI [TW], et al
• EP 19204020 A 20191018
• EP 3647649 A1 20200506 - OSRAM GMBH [DE], et al
• IT 201900010188 A 20190626
• US 2010213809 A1 20100826 - ROEHL MANFRED [DE], et al

Citation (search report)
• [X1] CN 109140373 A 20190104 - GUANGZHOU LIANCHENG ILLUMINATION IND CO LTD
• [X1] CN 106594627 A 20170426 - RAYBEN TECH (ZHUHAI) LTD
• [X1] CN 207334634 U 20180508 - ZHONGSHAN HOUSHENG PHOTOELECTRIC TECH CO LTD
• [AD] US 2014328079 A1 20141106 - ITAGAKI NOBUTAKA [JP]

Cited by
IT202200010778A1; EP4368877A1; US2022357008A1; US12013091B2

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