

Title (en)
LED LIGHT SOURCE DEVICE

Title (de)
LED-LICHTQUELLENVORRICHTUNG

Title (fr)
DISPOSITIF DE SOURCE LUMINEUSE À DEL

Publication
EP 4207949 A1 20230705 (EN)

Application
EP 23158316 A 20200122

Priority
• EP 23158316 A 20200122
• EP 20153197 A 20200122

Abstract (en)
An LED light source device (20) is disclosed, comprising: (a). a plurality of first LED devices (22) configured to emit white light, (b). at least one second LED device (23) configured to emit far red light, and (c). at least one third LED device (24) configured to emit UV light; wherein the plurality of first, second and third LED devices (22, 23, 24) are arranged in a circuit, the circuit comprising first and second terminals (25, 26) for connection with a single current source; the circuit further comprising a plurality of parallel first current paths (30, 30', 30''), each first current path (30) comprising a number of first LED devices (22) connected in series; a first group of first current paths (30) being arranged in series with a second current path (31), comprising at least one second LED device (23); and a second group of first current paths (30') being arranged in series with a third current path (32), comprising at least one third LED device (24).

IPC 8 full level
H05B 45/40 (2020.01)

CPC (source: EP)
H05B 45/40 (2020.01)

Citation (applicant)
US 2019305192 A1 20191003 - HAN BO YONG [KR]

Citation (search report)
• [IY] US 2011157884 A1 20110630 - CHEN CHAO-HSING [TW], et al
• [IY] EP 2753149 A1 20140709 - LG INNOTEK CO LTD [KR]
• [Y] US 2009050907 A1 20090226 - YUAN THOMAS [US], et al
• [Y] WO 2014108825 A1 20140717 - KONINKL PHILIPS NV [NL]

Designated contracting state (EPC)
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EP 3855870 A1 20210728; EP 3855870 B1 20230308; EP 4207949 A1 20230705

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