

Title (en)
PHOTOVOLTAIC COMPONENT

Title (de)
PHOTOVOLTAIKBAUTEIL

Title (fr)
COMPOSANT PHOTOVOLTAÏQUE

Publication
EP 4150677 A1 20230322 (DE)

Application
EP 20734162 A 20200619

Priority
EP 2020067130 W 20200619

Abstract (en)
[origin: WO2021160295A1] The invention relates to a photovoltaic component (10) for applications outside the automotive sector, more particularly for buildings, containers, boats, ships, construction vehicles, agricultural vehicles, trains and aircraft. The photovoltaic component comprises an outer pane (11) and an inner pane (12). Disposed between the outer pane (11) and the inner pane (12) is an energy-generating layer (15) having a plurality of concentrator photovoltaic modules (20), wherein the concentrator photovoltaic modules (20) comprise a condenser lens (21) as the primary optical system and a photovoltaic chip (22), which is integrated into a surface-mountable housing (30). The surface-mountable housing (30) comprises at least two electrical contacts (22a, 22b) for contacting the photovoltaic chip (22), a transparent cover (36) and an integrated reflector (23) as the secondary optical system.

IPC 8 full level
H01L 31/054 (2014.01); **H01L 31/048** (2006.01); **H02S 20/22** (2014.01); **H02S 20/30** (2014.01)

CPC (source: EP)
H01L 31/048 (2013.01); **H01L 31/0488** (2013.01); **H01L 31/0543** (2014.12); **H01L 31/0547** (2014.12); **H02S 20/22** (2014.12); **H02S 20/30** (2014.12); **Y02B 10/10** (2013.01); **Y02E 10/52** (2013.01)

Citation (search report)
See references of WO 2021160295A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021160295 A1 20210819; EP 4150677 A1 20230322

DOCDB simple family (application)
EP 2020067130 W 20200619; EP 20734162 A 20200619