

Title (en)
Front end of an automobile, without radiator

Title (de)
Vorderfront eines Kraftfahrzeuges, ohne Radiator

Title (fr)
Face avant technique automobile sans radiateur

Publication
EP 1101689 A9 20010711 (FR)

Application
EP 00403173 A 20001114

Priority
FR 9914278 A 19991115

Abstract (en)
[origin: EP1101689A1] The frame has an upper metal alloy plastic rib reinforced crossbar (1), designed to support hinges or the lock of a engine compartment cover, a glass fiber reinforced polypropylene support (2,3) at each end of the crossbar. Each support is designed to receive at least a head lamp unit (6). A lower crossbar, incorporating DANNERTtype energy absorbers (4) extends from one support to the other. The radiator (12) is located in a gap in the frame.

IPC 1-7
B62D 25/08

IPC 8 full level
B60R 21/02 (2006.01); **B62D 21/15** (2006.01); **B62D 25/08** (2006.01); **B62D 29/00** (2006.01); **B62D 29/04** (2006.01)

CPC (source: EP US)
B62D 25/084 (2013.01 - EP US); **B62D 29/001** (2013.01 - EP US); **B62D 29/004** (2013.01 - EP US); **B62D 29/04** (2013.01 - EP US)

Cited by
EP1352809A1; EP1500578A3; CN100341738C; FR2965226A1; FR2833563A1; FR3053305A1; CN109328158A; US10889327B2; WO2018002460A1

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