

Title (en)
Motor vehicle air conditioning

Title (de)
Kraftfahrzeugklimaanlage

Title (fr)
Climatisation de véhicule automobile

Publication
EP 2381110 B1 20180328 (DE)

Application
EP 11162589 A 20110415

Priority
• DE 102010028067 A 20100422
• DE 102010020731 A 20100517

Abstract (en)
[origin: EP2381110A2] The system has a plastic running wheel (5) comprising a hub (8) and a vane (9) for circulation of air. An electrical motor (7) is arranged below the running wheel. A cooling agent evaporator is provided for cooling the air that is supplied to a vehicle inner compartment. A heating device warms the air that is supplied to the vehicle inner compartment. The running wheel is provided with a shield (10) for shielding water from the electrical motor. The shield is designed as a disk, ring (14) or dome (11). A drive shaft (6) is aligned in a vertical manner.

IPC 8 full level
F04D 25/06 (2006.01); **F04D 29/28** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP)
F04D 25/0606 (2013.01); **F04D 29/283** (2013.01); **F04D 29/703** (2013.01)

Citation (examination)
• DE 19802111 A1 19980806 - DENSO CORP [JP]
• US 5813831 A 19980929 - MATSUNAGA KOUJI [JP], et al
• US 2006285967 A1 20061221 - WANG YOONHO [KR], et al
• US 5449153 A 19950912 - CATALANO PATRICIA M [US], et al
• US 5786647 A 19980728 - VOLLMER THOMAS [DE], et al

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CN108691809A; CN111788079A; EP3718799A4; WO2023124038A1

Designated contracting state (EPC)
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