

Title (en)

Filter cartridge for air conditioning systems for vehicles

Title (de)

Filterkartusche für eine Klimaanlage eines Kraftfahrzeuges

Title (fr)

Cartouche filtrante pour système de climatisation de véhicule automobile

Publication

**EP 1580501 A1 20050928 (EN)**

Application

**EP 04425204 A 20040324**

Priority

EP 04425204 A 20040324

Abstract (en)

A filter assembly for air conditioning systems for vehicles, comprising: a tubular container (12) with an internal cylindrical wall (20) open at one end (16), a filter housed in the tubular container (12), a cap (18) with a cylindrical wall (36) guided with freedom of axial movement in the internal cylindrical wall (20) of the container (12) and provided with at least one circumferential seat (40, 48, 38) in which is housed at least one o-ring (42) positioned in sealing contact with the internal cylindrical wall (20) of the container (12), an elastic retaining ring (28) engaging a circumferential seat (26) formed on an end portion (16) of the container (12) and positioned in such a way as to prevent the extraction of the cap (18) from the container (12), and at least one protecting element (60, 66) able to prevent the entry of contaminants in the seal area between the o-ring (42) and the internal cylindrical wall (20) of the container (12).

IPC 1-7

**F25B 43/00**; **B01D 35/30**

IPC 8 full level

**B01D 35/30** (2006.01); **B60H 3/00** (2006.01); **F25B 43/00** (2006.01)

CPC (source: EP)

**F25B 43/003** (2013.01); **F25B 2339/0441** (2013.01); **F25B 2400/162** (2013.01); **F25B 2500/01** (2013.01)

Citation (applicant)

FR 2798456 A1 20010316 - BEHR GMBH & CO [DE]

Citation (search report)

- [E] EP 1437560 A1 20040714 - BEHR LORRAINE SARL [FR]
- [X] US 6446463 B2 20020910 - BERNINI MICHELE [IT]
- [A] FR 2822518 A1 20020927 - VALEO THERMIQUE MOTEUR SA [FR]
- [X] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 11 6 November 2002 (2002-11-06)

Cited by

DE102015212205A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1580501 A1 20050928**; **EP 1580501 B1 20070530**; AR 048325 A1 20060419; AT E363635 T1 20070615; BR PI0500887 A 20051101; DE 602004006711 D1 20070712; DE 602004006711 T2 20071004; ES 2287679 T3 20071216; PT 1580501 E 20070824

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