

Title (en)
Fan arrangement with aspirator

Title (de)
Lüfteranordnung mit Aspirator

Title (fr)
Agencement de ventilateur avec un aspirateur

Publication
EP 0675268 B1 19970521 (DE)

Application
EP 95104316 A 19950323

Priority
US 21892194 A 19940328

Abstract (en)
[origin: US5427502A] An aspirator is mounted on a fan shroud surrounding a vehicle cooling fan. The aspirator has a housing which forms a duct which connects an opening to a port for connecting to a vehicle function. The aspirator is spaced apart from the fan and upstream from the fan and extends at an acute angle with respect to a tangent to a cylindrical wall of the shroud. The aspirator has a near edge which faces generally opposite to a direction of rotation of the fan blades and which is parallel to a leading edge of a fan blade when the leading edge is spaced apart from the near edge by a distance which is slightly larger than the width of the fan blade. The aspirator has a flange which projects parallel to a plane of rotation of the fan and generally in the rotation direction of the fan. The duct has a triangular cross sectional shape with an apex which projects in a direction which is upstream with respect flow of air moved by the fan.

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F01P 5/06; **F01P 11/10**; **F04D 29/42**

IPC 8 full level
F02M 35/06 (2006.01); **F01P 5/06** (2006.01); **F01P 11/10** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP US)
F01P 5/06 (2013.01 - EP US); **F01P 11/10** (2013.01 - EP US); **F02M 35/06** (2013.01 - EP US); **F02M 35/086** (2013.01 - EP US);
F04D 29/4213 (2013.01 - EP US)

Cited by
DE102012018571B3; EP3135879A1; CN106481431A; US9915187B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
US 5427502 A 19950627; BR 9501226 A 19951114; CA 2143475 A1 19950929; CA 2143475 C 19980526; DE 59500246 D1 19970626;
EP 0675268 A1 19951004; EP 0675268 B1 19970521; JP 3590435 B2 20041117; JP H08100720 A 19960416

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