

Title (en)

Device for displacing a gaseous or liquid medium, and vacuum cleaner comprising such a device.

Title (de)

Einrichtung, um ein gasförmiges oder flüssiges Medium von einem Ort zum anderen zu bringen, sowie mit einer derartigen Einrichtung versehener Staubsauger.

Title (fr)

Dispositif de déplacement d'un milieu gazeux ou liquide et aspirateur muni d'un tel dispositif.

Publication

EP 0556895 A1 19930825

Application

EP 93200352 A 19930210

Priority

EP 92200443 A 19920217

Abstract (en)

A device for displacing a gaseous or liquid medium comprises a rotatably drivable impeller wheel and a diffusor (5) having a plurality of guide vanes (6) adjoining the impeller wheel viewed in the flow direction (A), of which two successive guide vanes have an overlap (7) viewed in the flow direction, between which guide vanes diverging passages (8) for the medium are formed. In order to reduce the noise level each guide vane has at least one opening (10) which, viewed in the flow direction (A), is situated in the first one of two successive guide vanes outside said overlap (7). Preferably, the opening is a slit. <IMAGE>

IPC 1-7

F04D 29/44; **F04D 29/66**

IPC 8 full level

A47L 7/00 (2006.01); **A47L 9/00** (2006.01); **F04D 29/44** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)

F04D 29/444 (2013.01); **F04D 29/448** (2013.01); **F04D 29/661** (2013.01); **F05D 2250/52** (2013.01)

Citation (search report)

- [X] FR 2185222 A5 19731228 - NEYRPIE CREUSOT LOIRE [FR]
- [YD] US 4679990 A 19870714 - YAMAURA IZUMI [JP], et al
- [X] US 2399072 A 19460423 - THOMPSON WENDELL S
- [A] CH 317623 A 19561130 - SULZER AG [CH]
- [A] DE 3835622 A1 19890503 - SUNDSTRAND CORP [US]
- [A] US 3917434 A 19751104 - BANDUKWALLA PHIROZE
- [X] PATENT ABSTRACTS OF JAPAN vol. 5, no. 18 (M-53)(690) 3 February 1981 & JP-A-55 146 299 (MATSUSHITA) 14 November 1980
- PATENT ABSTRACTS OF JAPAN vol. 5, no. 18 (M-53)(690) 3 February 1981 & JP-A-55 146 299 (MATSUSHITA) 14 November 1980

Cited by

EP1618821A3; EP1790263A3; EP1538342A3; KR100457551B1; CN103126611A; CN108158489A; CN109340187A; GB2578760A; GB2578760B; EP3312432A1; EP0622549A1; US5516263A; US5709531A; US7223070B2; US10995770B2; WO9719629A1

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0556895 A1 19930825; JP H0585340 U 19931119

DOCDB simple family (application)

EP 93200352 A 19930210; JP 445193 U 19930215