

Title (en)  
Vaned impeller.

Title (de)  
Flügelrad.

Title (fr)  
Roue ouverte à ailettes.

Publication  
**EP 0408956 B1 19950118 (DE)**

Application  
**EP 90112515 A 19900630**

Priority  
DE 3923779 A 19890718

Abstract (en)  
[origin: EP0408956A2] In order to improve the exchange of energy between cooling and heating processes a vaned impeller is proposed, the vanes 2 of which consist of a hollow profile open in the direction of rotation, which in the area close to the hub has an axial inlet expansion 5 on the admission side and is provided on the outside end with a radial outlet aperture 6 together with a baffle element 7 curved in the direction towards the outflow side. In this way a spiral, radial flow behaviour is produced by means of which a high volume or mass flow circulation rate is achieved at low speed.

IPC 1-7  
**F04D 29/28**

IPC 8 full level  
**F04D 29/28** (2006.01)

CPC (source: EP)  
**F04D 29/281** (2013.01); **F04D 29/287** (2013.01)

Cited by  
CN103452902A; EP1158177A1; FR2809481A1; EP1376036A1; US9682356B2

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0408956 A2 19910123; EP 0408956 A3 19920102; EP 0408956 B1 19950118**; AT E117411 T1 19950215; AU 5809490 A 19910124; AU 632341 B2 19921224; BR 9003426 A 19910827; DE 3923779 A1 19910131; DE 59008287 D1 19950302; ES 2069630 T3 19950516

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**EP 90112515 A 19900630**; AT 90112515 T 19900630; AU 5809490 A 19900702; BR 9003426 A 19900716; DE 3923779 A 19890718; DE 59008287 T 19900630; ES 90112515 T 19900630