

Title (en)

Fixed vane arrangement for a variable width diffuser.

Title (de)

Anordnung mit festen Schaufeln für Diffusor mit variablem Querschnitt.

Title (fr)

Ensemble de pales fixes pour diffuseur à section variable.

Publication

**EP 0198784 A1 19861022 (EN)**

Application

**EP 86630038 A 19860306**

Priority

US 71205785 A 19850315

Abstract (en)

A centrifugal compressor for a refrigeration or air conditioning system is provided having a variable width diffuser assembly (28) having a movable wall (34) and a plurality of vanes (82). The vanes (82) are angularly disposed relative to the impeller (16) within a critical range of angular values to provide high operating efficiencies and high pressure recoveries over a large operating range.

IPC 1-7

**F04D 29/46**; **F04D 27/02**

IPC 8 full level

**F04D 29/46** (2006.01); **F01D 17/14** (2006.01); **F04D 27/02** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)

**F01D 17/143** (2013.01); **F04D 27/0246** (2013.01); **F04D 29/444** (2013.01); **F04D 29/462** (2013.01); **F04D 29/464** (2013.01); **F05D 2250/52** (2013.01)

Citation (search report)

- [A] US 2996996 A 19610822 - KURT JASSNIKER
- [A] US 4378194 A 19830329 - BANDUKWALLA PHIROZE
- [A] FR 682818 A 19300603

Cited by

CN107002709A; CN103225627A; EP0688398A4; EP0484111A1; GB2234295A; US5059091A; GB2234295B; GB2211246A; US11415148B2

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DOCDB simple family (application)

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