

Title (en)

Splitter blade arrangement for centrifugal compressors.

Title (de)

Zwischenschaufeleinrichtung für Zentrifugalverdichter.

Title (fr)

Ensemble d'interpales pour compresseurs centrifuges.

Publication

EP 0205001 A1 19861217 (EN)

Application

EP 86106851 A 19860520

Priority

US 73765985 A 19850524

Abstract (en)

A centrifugal compressor impeller has a first set of splitter blades (40) positioned in the flow channels between the full length blades (30,32) such that about 1/3 of the channel flow is directed between each first splitter blade and the adjacent full length blade having its suction side facing the first splitter blade. Each blade of a second, shorter set of splitter blades (50), is positioned between the first splitter blade (40) and the adjacent full length blade (32) having its pressure side facing the first splitter blade to divide about in half the other 2/3 of the channel flow.

IPC 1-7

F04D 29/28

IPC 8 full level

F04D 29/28 (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP)

F04D 29/284 (2013.01); **F04D 29/30** (2013.01)

Citation (search report)

- [X] FR 2550585 A1 19850215 - FOUEILLASSAR JEAN MARIE [FR]
- [X] DE 174855 C 19061001 - WITTIG EMIL [DE]
- [X] GB 161464 A 19210414 - JOHN REID, et al

Cited by

US2018135525A1; DE102009007843A1; CN109154305A; JP2016040460A; GB2337795A; CN102459916A; CN104358710A; RU191663U1; US2013266450A1; US9638208B2; EP2620651A4; US2014314590A1; CN108443218A; US10113555B2; US5002461A; GB2223538A; US5100295A; GB2223538B; US8579591B2; US7870731B2; US10087947B2; US6508626B1; DE102018103722A1; US10167876B2; US10082153B2; WO2006117073A1; WO9961800A1; US10167875B2; WO2024010648A1

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0205001 A1 19861217; JP S627998 A 19870114; NO 862044 L 19861125

DOCDB simple family (application)

EP 86106851 A 19860520; JP 11768586 A 19860523; NO 862044 A 19860522