

Title (en)
Adjustable radial diffuser

Title (de)
Verstellbarer Radialdiffusor

Title (fr)
Diffuseur radial réglable

Publication
EP 0590254 B1 19960124 (DE)

Application
EP 93111495 A 19930717

Priority
DE 4225126 A 19920730

Abstract (en)
[origin: US5342168A] An adjustable radial flow diffuser for a radial flow compressor includes adjusting elements having diffuser blades. The adjusting elements are arranged in a diffuser annulus uniformly distributed along the diffuser circumference with an angular pitch delta . The adjusting elements further are swivellable about an adjusting axis V parallel to the longitudinal axis of the compressor for changing the narrow cross-section between the diffuser blades. The adjusting elements have either a substantially U-shaped or H-shaped cross-section with sector-shaped plates that are mounted on both sides of a blade root to form the legs. The diffuser blade forms the web of the substantially U or H shaped cross-section.

IPC 1-7
F04D 29/46

IPC 8 full level
F04D 29/46 (2006.01)

CPC (source: EP US)
F04D 29/462 (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP)

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

DOCDB simple family (publication)
US 5342168 A 19940830; AT E133473 T1 19960215; DE 4225126 C1 19930401; EP 0590254 A1 19940406; EP 0590254 B1 19960124; ES 2083229 T3 19960401

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US 9630993 A 19930726; AT 93111495 T 19930717; DE 4225126 A 19920730; EP 93111495 A 19930717; ES 93111495 T 19930717