

Title (en)  
RADIAL-FLOW TURBO MACHINE

Publication  
**EP 0267405 A3 19900110 (EN)**

Application  
**EP 87114238 A 19870929**

Priority  
JP 26903186 A 19861112

Abstract (en)  
[origin: EP0267405A2] A radial-flow turbo machine comprising an impeller (10) in which the center line (190) of each moving vane (100) in a cross section perpendicular to the axis of rotation (500) becomes more distant toward the back surface side (130) of the vane from a radial straight line (700) passing through the axis of rotation (500) and through an intersection (600) where the center line (190) of the vane and a hub line intersect as a radius having the axis of rotation (500) as its center increases.

IPC 1-7  
**F01D 5/04**

IPC 8 full level  
**F01D 5/14** (2006.01); **F01D 5/04** (2006.01)

CPC (source: EP)  
**F01D 5/048** (2013.01)

Citation (search report)

- [A] DE 3418946 A1 19851128 - PUTZ ELMAR DIPL ING FH
- [A] US 3610775 A 19711005 - SWEARINGEN JUDSON S
- [A] GB 2166808 A 19860514 - DAIMLER BENZ AG
- [A] EP 0080258 A2 19830601 - TOSHIBA KK [JP]

Cited by  
CN102337932A; US5112195A; US2011206518A1; US9175662B2; US11313229B2

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**EP 0267405 A2 19880518; EP 0267405 A3 19900110**; DE 267405 T1 19881013; ES 2002603 A4 19880901; JP S63124806 A 19880528

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**EP 87114238 A 19870929**; DE 87114238 T 19870929; ES 87114238 T 19870929; JP 26903186 A 19861112