

Title (en)

TURBO-MACHINE WITH REDUCED ATTRITION

Title (de)

STRÖMUNGSMASCHINE MIT VERRINGERTEM ABRASIVEN VERSCHLEISS

Title (fr)

TURBOMACHINE A USURE PAR ABRASION REDUITE

Publication

**EP 0721546 B1 19981202 (DE)**

Application

**EP 94927620 A 19940916**

Priority

- DE 4332703 A 19930925
- DE 4431947 A 19940908
- EP 9403108 W 19940916

Abstract (en)

[origin: US5984629A] A turbo-machine for transporting media loaded with solid particles includes a housing. At least one impeller is disposed inside the housing and defines impeller side spaces disposed between the impeller and the housing. Wall surfaces bound the impeller side spaces. The wall surfaces have various shaped protrusions, recesses, blades and grooves for conducting the flow of the medium near the wall at least partly into regions where the transport medium has a greater rotational motion.

IPC 1-7

**F04D 7/04; F04D 29/16; F04D 29/44; F04D 29/22**

IPC 8 full level

**F04D 7/04** (2006.01); **F04D 29/16** (2006.01); **F04D 29/22** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)

**F04D 7/04** (2013.01 - EP US); **F04D 29/167** (2013.01 - EP US); **F04D 29/2266** (2013.01 - EP US); **F04D 29/445** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 5984629 A 19991116**; AU 7697094 A 19950410; CN 1054418 C 20000712; CN 1131978 A 19960925; DE 59407403 D1 19990114;  
EP 0721546 A1 19960717; EP 0721546 B1 19981202; WO 9508714 A1 19950330

DOCDB simple family (application)

**US 63810296 A 19960325**; AU 7697094 A 19940916; CN 94193527 A 19940916; DE 59407403 T 19940916; EP 9403108 W 19940916;  
EP 94927620 A 19940916