

Title (en)  
CENTRIFUGAL TURBOMACHINE

Title (de)  
ZENTRIFUGAL-TURBOMASCHINE

Title (fr)  
TURBOMACHINE CENTRIFUGE

Publication  
**EP 2650546 A1 20131016 (EN)**

Application  
**EP 11847208 A 20111201**

Priority  
• JP 2010275839 A 20101210  
• JP 2011077863 W 20111201

Abstract (en)  
A plurality of vaned diffusers is disposed on a concentric plate at intervals in a circumferential direction thereof, and each of the diffusers is a curvilinear element three-dimensional diffuser having blades which are extended from a hub side of a impeller to a shroud side thereof. The blades are formed in a form in which a blade serving as a reference is stacked in a direction of the height of the blade, which is a direction of a gap between the hub and the shroud. A dihedral distribution in which moving in a direction perpendicular to a chord direction linking a leading edge of the blade as the reference with a trailing edge thereof, is set as a positive movement is non-uniform from an end portion on the hub side to an intermediate portion of the height of the blade.

IPC 8 full level  
**F04D 29/44** (2006.01)

CPC (source: EP US)  
**F01D 1/06** (2013.01 - US); **F04D 29/44** (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP)

Citation (search report)  
See references of WO 2012077580A1

Cited by  
EP3460256A1; EP3460255A1; WO2019057413A1; EP3460257A1; WO2019057414A1; WO2019057412A1; CN105705796A; FR3065023A1; CN111133203A; US11225977B2; US11009038B2; EP3760876A1; WO2018185445A1; EP3760871A1; WO2021001106A1; WO2015061344A1; US10527059B2; EP3805572A1; US11313384B2

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DOCDB simple family (publication)  
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