

Title (en)

CENTRIFUGAL COMPRESSOR DIFFUSER AND CENTRIFUGAL COMPRESSOR PROVIDED WITH THE SAME

Title (de)

ZENTRIFUGALKOMPRESSOR-DIFFUSOR UND DAMIT AUSGESTATTETER ZENTRIFUGALKOMPRESSOR

Title (fr)

DIFFUSEUR POUR COMPRESSEUR CENTRIFUGE ET COMPRESSEUR CENTRIFUGE COMPORTANT CE DIFFUSEUR

Publication

**EP 2613056 A4 20140409 (EN)**

Application

**EP 11821560 A 20110817**

Priority

- JP 2010193623 A 20100831
- JP 2011068611 W 20110817

Abstract (en)

[origin: US2013094955A1] A centrifugal compressor diffuser includes a shroud-side wall (58) provided downstream of a centrifugal impeller; a hub-side wall provided so as to face the shroud-side wall (58); a plurality of shroud-side blades (3) fixed at base ends thereof to the shroud-side wall (58) and hub-side blades (4) fixed at base ends thereof to the hub-side wall. The shroud-side blades (3) and the hub-side blades (4) are combined in such a state that inlet angles thereof differ from one another and that at least portions of top ends thereof in a blade height direction are abutted onto one another. In gaps where the top ends of the combined shroud-side blades (3) and hub-side blades (4) are not abutted onto one another, a connecting member (5) that connects the top ends is provided so as to fill at least portions of the gaps.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [XD] JP 3746740 B2 20060215
- [XI] US 2007274826 A1 20071129 - KUHNEL JANPETER [CH], et al
- [A] US 4877370 A 19891031 - NAKAGAWA KOJI [JP], et al
- [A] DE 4231452 A1 19940324 - GUTEHOFFNUNGSHUETTE MAN [DE]
- See references of WO 2012029543A1

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2013094955 A1 20130418**; CN 103097741 A 20130508; CN 103097741 B 20151125; EP 2613056 A1 20130710; EP 2613056 A4 20140409; EP 2613056 B1 20160120; JP 2012052432 A 20120315; JP 5010722 B2 20120829; KR 101437319 B1 20140902; KR 101454100 B1 20141022; KR 20130045280 A 20130503; KR 20140049052 A 20140424; WO 2012029543 A1 20120308

DOCDB simple family (application)

**US 201113806384 A 20110817**; CN 201180032174 A 20110817; EP 11821560 A 20110817; JP 2010193623 A 20100831; JP 2011068611 W 20110817; KR 20127034017 A 20110817; KR 20147006268 A 20110817