

Title (en)
DIFFUSER FOR CENTRIFUGAL COMPRESSOR AND METHOD OF PRODUCING THE SAME

Title (de)
DIFFUSOR FÜR ZENTRIFUGALVERDICHTER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
DIFFUSEUR POUR COMPRESSEUR CENTRIFUGE ET SON PROCEDE DE PRODUCTION

Publication
EP 1568891 A1 20050831 (EN)

Application
EP 03777260 A 20031204

Priority
• JP 0315553 W 20031204
• JP 2002352327 A 20021204

Abstract (en)
At least the throat of the suction surface of a conventionally-used diffuser blade having a two-dimensional shape is cut into a concave shape with a ball end mill. In the throat, the nearer to the bottom of the concave shape, the higher the gas pressure becomes, and therefore the gas flows from the concave bottom toward the hub end and the shroud end thereby to reduce the thickness of the boundary layer formed on the hub end and the shroud end. <IMAGE>

IPC 1-7
F04D 29/44

IPC 8 full level
F04D 29/44 (2006.01)

CPC (source: EP US)
F04D 29/444 (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP)

Cited by
WO2007033275A1; US7581925B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1568891 A1 20050831; EP 1568891 A4 20060104; JP WO2004051091 A1 20060330; US 2005163610 A1 20050728;
WO 2004051091 A1 20040617

DOCDB simple family (application)
EP 03777260 A 20031204; JP 0315553 W 20031204; JP 2004556912 A 20031204; US 50322004 A 20040803