

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  
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