

Title (en)  
IMPELLER FOR GAS COMPRESSOR AND GAS COMPRESSOR WITH THE SAME

Title (de)  
ANTRIEB FÜR EINEN GASKOMPRESSOR UND GASKOMPRESSOR DAMIT

Title (fr)  
TURBINE POUR COMPRESSEUR À GAZ ET COMPRESSEUR À GAZ AYANT CELLE-CI

Publication  
**EP 2105616 A4 20140604 (EN)**

Application  
**EP 07850962 A 20071220**

Priority  
• JP 2007074527 W 20071220  
• JP 2007005852 A 20070115

Abstract (en)  
[origin: EP2105616A1] An object is to provide a gas-compressor impeller which has excellent durability even when gas containing solid particles is compressed and which does not increase the cost. A gas-compressor impeller (3) installed in a gas compressor that compresses gas containing solid particles has a hub portion (10) and a plurality of blades (12) extending substantially radially from the outer circumferential surface of the hub portion (10). The hub portion (10) and the blades (12) are rotated about the central axial line to compress gas. The blades (12) have abrasion-resistant films (20) only at gas inlet portions.

IPC 8 full level  
**F04D 29/30** (2006.01); **C23C 4/10** (2006.01)

CPC (source: EP US)  
**C23C 4/00** (2013.01 - EP US); **C23C 30/00** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/289** (2013.01 - EP US); **F05D 2230/31** (2013.01 - US); **F05D 2230/90** (2013.01 - EP); **F05D 2300/2263** (2013.01 - EP US); **F05D 2300/603** (2013.01 - EP US); **F05D 2300/611** (2013.01 - EP)

Citation (search report)  
• [X] US 3892883 A 19750701 - LECLERCQ GERARD  
• [I] US 4839245 A 19890613 - SUE JIJINJEN A [US], et al  
• [Y] DE 29702099 U1 19970417 - ATLAS COPCO ENERGAS [DE]  
• [Y] GB 656336 A 19510822 - STORK KONINKLIJKE MASCHF  
• [A] DE 920234 C 19541115 - KUEHNLE AG  
• [A] GB 1140688 A 19690122 - TURBOWERKE MEIA EIN VEB  
• See references of WO 2008087830A1

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**EP 2105616 A1 20090930; EP 2105616 A4 20140604; EP 2105616 B1 20180822**; JP 2008169799 A 20080724; JP 4486652 B2 20100623; US 2009304519 A1 20091210; WO 2008087830 A1 20080724; WO 2008087830 A9 20081127

DOCDB simple family (application)  
**EP 07850962 A 20071220**; JP 2007005852 A 20070115; JP 2007074527 W 20071220; US 30959207 A 20071220