

Title (en)  
VANE STRUCTURE FOR COMPRESSOR

Title (de)  
SCHAUFELSTRUKTUR FÜR KOMPRESSOR

Title (fr)  
STRUCTURE D'AUBE POUR COMPRESSEUR

Publication  
**EP 1384006 A1 20040128 (EN)**

Application  
**EP 02718657 A 20020410**

Priority  

- KR 0200639 W 20020410
- KR 20010018935 A 20010410
- KR 20010075964 A 20011203

Abstract (en)  
[origin: WO02084123A1] A vane structure for a compressor comprises: a Z-plate located in a cylinder assembly for dividing an inner space of the cylinder assembly into a plurality of compression spaces and rotated by a driving unit to suck, compress, and discharge fluid; and vanes undergoing reciprocating movements by being contacted to both surfaces of the Z-plate for dividing the respective compression space into a suction area and a compression area, wherein the vane includes a vane roller which is rolling contacted to the Z-plate to reduce a friction resistance between the Z-plate and the vane, and thereby an abrasion can be minimized, a noise generation can be reduced, life spans of components can be increased, and a reliability of the compressor can be improved.

IPC 1-7  
**F04C 29/00**; **F04C 18/356**

IPC 8 full level  
**F04C 29/00** (2006.01); **F04C 18/30** (2006.01); **F04C 18/356** (2006.01)

CPC (source: EP US)  
**F04C 18/3568** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02084123 A1 20021024**; AU 2002249641 B2 20050120; BR 0208780 A 20040622; BR 0208780 B1 20110531; EP 1384006 A1 20040128; EP 1384006 A4 20040526; JP 2004522048 A 20040722; US 2003235510 A1 20031225

DOCDB simple family (application)  
**KR 0200639 W 20020410**; AU 2002249641 A 20020410; BR 0208780 A 20020410; EP 02718657 A 20020410; JP 2002581841 A 20020410; US 29639002 A 20021125