

Title (en)  
TWO-STAGE HELICAL SCREW COMPRESSOR

Title (de)  
ZWEISTUFIGER SCHRAUBENKOMPRESSOR

Title (fr)  
COMPRESSEUR A VIS A DEUX ETAGES

Publication  
**EP 1399677 A1 20040324 (DE)**

Application  
**EP 02747418 A 20020620**

Priority  
• DE 20110360 U 20010622  
• EP 0206853 W 20020620

Abstract (en)  
[origin: US6991440B2] A two-stage screw compressor has two compressor stages whose rotor housings are arranged with their axes parallel to one another and are enclosed by a common coolant housing at a distance. A coolant inlet and a coolant outlet are located at the common coolant housing, as well as guide walls such that the coolant flowing through the coolant housing flows around and cools the rotor housings of the two compressor stages one after the other in an S-shaped flow path.

IPC 1-7  
**F04C 23/00**; F04C 18/16; F04C 29/04

IPC 8 full level  
**F04C 18/16** (2006.01); **F04C 23/00** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP US)  
**F04C 18/16** (2013.01 - EP US); **F04C 23/00** (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US)

Cited by  
DE202007004292U1

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)  
**US 2004062668 A1 20040401**; **US 6991440 B2 20060131**; AT E336659 T1 20060915; CN 1273744 C 20060906; CN 1463331 A 20031224; DE 20110360 U1 20021031; DE 50207867 D1 20060928; EP 1399677 A1 20040324; EP 1399677 B1 20060816; ES 2271293 T3 20070416; JP 2004530836 A 20041007; WO 03001064 A1 20030103

DOCDB simple family (application)  
**US 67531503 A 20030930**; AT 02747418 T 20020620; CN 02802177 A 20020620; DE 20110360 U 20010622; DE 50207867 T 20020620; EP 0206853 W 20020620; EP 02747418 A 20020620; ES 02747418 T 20020620; JP 2003507427 A 20020620