

Title (en)

Rotary piston compressor with axial flow

Title (de)

Drehkolbenverdichter mit axialer Förderrichtung

Title (fr)

Compresseur à piston rotatif avec écoulement axial

Publication

**EP 1059454 B1 20030827 (DE)**

Application

**EP 99111232 A 19990609**

Priority

EP 99111232 A 19990609

Abstract (en)

[origin: EP1059454A1] The compressor has an axial transport direction from above to below, especially of helical spindle form, cooling channels (12) carrying coolant for its motors (8), bearings (6,7), bearings and sensors (9) and a cooling device for a chamber (3), whose housing (2) has an annular chamber (15) that is partly filled with liquid cooled by the coolant via heat exchanger surfaces (18).

IPC 1-7

**F04C 29/04**

IPC 8 full level

**F04C 18/16** (2006.01); **F04C 18/00** (2006.01); **F04C 29/00** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP KR US)

**F04C 18/00** (2013.01 - KR); **F04C 18/16** (2013.01 - KR); **F04C 29/00** (2013.01 - KR); **F04C 29/04** (2013.01 - EP KR US);  
**F04C 2240/402** (2013.01 - EP US)

Cited by

EP2532895A1; BE1026958B1; US11493043B2; WO2020128830A1; WO2021160677A1; WO2018093440A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

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CA 2310995 A1 20001209; CA 2310995 C 20080527; DE 59906772 D1 20031002; DK 1059454 T3 20031222; ES 2205640 T3 20040501;  
JP 2001012376 A 20010116; JP 4209581 B2 20090114; KR 100541326 B1 20060110; KR 20010007265 A 20010126; PT 1059454 E 20031231;  
SG 85187 A1 20011219; US 6328540 B1 20011211; ZA 200002736 B 20001211

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DK 99111232 T 19990609; ES 99111232 T 19990609; JP 2000170876 A 20000607; KR 20000030998 A 20000607; PT 99111232 T 19990609;  
SG 200003053 A 20000601; US 59097400 A 20000609; ZA 200002736 A 20000601