

Title (en)
Oil free screw compressor

Title (de)
Ölfreier Schraubenverdichter

Title (fr)
Compresseur à vis sec

Publication
EP 2264319 A3 20140521 (EN)

Application
EP 10164131 A 20100527

Priority
JP 2009129389 A 20090528

Abstract (en)
[origin: EP2264319A2] An oil free screw compressor comprises: a pair of male and female screw rotors (1,2) in which two or more twisted teeth are formed; a casing (3) which receives both the rotors (1,2) and in which a suction port and a discharge port are formed; and bearings (11-14) which rotatably support shaft end parts of both the rotors (1,2) and are held in the casing (3). There is provided a slot (6), next to the discharge port of the casing (3), which comes into communication with the discharge port with timing where a volume of a compression chamber formed by both the rotors (1,2) and the casing (3) becomes substantially zero as both the rotors (1,2) rotate, to prevent problems such as excessive compression.

IPC 8 full level
F04C 18/16 (2006.01); **F04C 18/08** (2006.01); **F04C 29/00** (2006.01); **F04C 29/06** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)
F04C 18/086 (2013.01); **F04C 18/088** (2013.01); **F04C 18/16** (2013.01); **F04C 29/0035** (2013.01); **F04C 29/065** (2013.01); **F04C 29/068** (2013.01); **F04C 29/12** (2013.01); **F04C 2250/102** (2013.01)

Citation (search report)
• [Y] US 5413467 A 19950509 - SUZUKI AKIRA [JP]
• [Y] US 4560333 A 19851224 - FUJIWARA MITSURU [JP], et al
• [A] US 2578196 A 19511211 - JOSEF MONTELIUS CARL OSCAR

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

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