

Title (en)  
VACUUM PUMP

Title (de)  
VAKUUMPUMPE

Title (fr)  
POMPE À VIDE

Publication  
**EP 2652332 B1 20150128 (DE)**

Application  
**EP 11799390 A 20111206**

Priority  
• DE 102010061202 A 20101214  
• EP 2011071882 W 20111206

Abstract (en)  
[origin: WO2012080034A2] The invention relates to a vacuum pump, in particular a screw pump, preferably having two displacement body shafts (2, 3) driving compressor bodies (12, 13), having an inner recess (14) extending in the direction of a geometric axis (A) of the displacement body shaft (2, 3), in which a tubular body (20) extends for feeding cooling fluid, leaving a free space between an inner surface of the recess (14) and an outer surface of the body (20). In order to disclose a vacuum pump comprising an embodiment of simple design and effective with respect to cooling power, according to the invention, the body (20) is further mounted in a separate cover part (15) installed on the intake side end of the displacement body (12, 13), the free space is implemented at least partially directly between the body (20) and the inner surface of the displacement body (12, 13) and extends continuously from the cover part (15) to an attachment region of the body (20) in the displacement body shaft (2, 3), in a region of the displacement body shaft (2, 3) associated with the motor/gearbox housing (4) of the displacement body shaft (2, 3).

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

CPC (source: EP KR US)  
**F04C 18/00** (2013.01 - US); **F04C 18/02** (2013.01 - KR); **F04C 18/04** (2013.01 - KR); **F04C 18/084** (2013.01 - US);  
**F04C 18/16** (2013.01 - EP KR US); **F04C 18/356** (2013.01 - KR); **F04C 28/26** (2013.01 - US); **F04C 29/00** (2013.01 - KR);  
**F04C 29/02** (2013.01 - KR); **F04C 29/04** (2013.01 - EP KR US); **F04C 2240/20** (2013.01 - EP US)

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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102010061202 A1 20120614**; CN 103261694 A 20130821; CN 103261694 B 20160120; EP 2652332 A2 20131023;  
EP 2652332 B1 20150128; JP 2013545932 A 20131226; JP 5886867 B2 20160316; KR 101873904 B1 20180703; KR 20140029370 A 20140310;  
US 2013224055 A1 20130829; US 9624927 B2 20170418; WO 2012080034 A2 20120621; WO 2012080034 A3 20120809

DOCDB simple family (application)  
**DE 102010061202 A 20101214**; CN 201180060478 A 20111206; EP 11799390 A 20111206; EP 2011071882 W 20111206;  
JP 2013543643 A 20111206; KR 20137017948 A 20111206; US 201113885054 A 20111206