

Title (en)
Lobe type vacuum pump

Title (de)
Wälzkolbenvakuumpumpe

Title (fr)
Pompe à vide à lobes

Publication
EP 2194275 A2 20100609 (DE)

Application
EP 09014528 A 20091120

Priority
DE 102008060540 A 20081204

Abstract (en)
The pump has a piston connected with a shaft, which are provided with bearings. A drive is shifted in rotation with the shaft. A hollow space (80) is provided in the shaft that is provided with two shaft journals (62, 63), which are arranged at ends of the piston. A longitudinal bar (66) is arranged between the shaft journals. A releasing structure is provided between the bearings and the piston. An unseparated and hollow inner area (82) is provided in the piston, where the hollow space is arranged in the inner area.

Abstract (de)
Die Erfindung betrifft eine Wälzkolbenvakuumpumpe mit einer Welle (10, 14), einem mit dieser verbundenen Kolben (12, 16), einem die Welle in Drehung versetzenden Antrieb (54, 56) und einer Wellenlagerung (22, 24, 26, 28). Um einen kostengünstig herstellbaren und stabilen Kolben zu schaffen, schlägt die Erfindung vor, dass in der Welle wenigstens ein Hohlraum (80) vorgesehen ist.

IPC 8 full level
F04C 18/12 (2006.01); **F04C 28/28** (2006.01)

CPC (source: EP)
F04C 18/126 (2013.01); **F04C 28/28** (2013.01); **F04C 2240/20** (2013.01); **F04C 2240/60** (2013.01)

Cited by
GB2490517A; GB2490517B; US2021372404A1; US11815095B2; US9920761B2; WO2019171075A1

Designated contracting state (EPC)
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)
AL BA RS

DOCDB simple family (publication)
EP 2194275 A2 20100609; EP 2194275 A3 20140903; EP 2194275 B1 20180822; DE 102008060540 A1 20100610

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