

Title (en)  
Lobe type vacuum pump

Title (de)  
Wälzkolbenvakuumpumpe

Title (fr)  
Pompe à vide à lobes

Publication  
**EP 2194275 A3 20140903 (DE)**

Application  
**EP 09014528 A 20091120**

Priority  
DE 102008060540 A 20081204

Abstract (en)  
[origin: EP2194275A2] 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.

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)

Citation (search report)  
• [XYI] US 6164945 A 20001226 - ISHIBASHI YOSHIMITSU [JP], et al  
• [XI] GB 891524 A 19620314 - EXPL DU GENERATUER A PISTON LI  
• [XI] WO 2004053296 A1 20040624 - ADAMS RICARDO LTD [GB], et al  
• [XI] GB 809445 A 19590225 - HERAEUS GMBH W C  
• [XI] US 3302868 A 19670207 - PETER WREDE JURGEN  
• [Y] DE 882746 C 19530713 - AUDI AG

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

DOCDB simple family (application)  
**EP 09014528 A 20091120**; DE 102008060540 A 20081204