

Title (en)

Device for load-independent application of a diesel-soot particulate filter with pressurised air

Title (de)

Vorrichtung zum lastunabhängigen Beaufschlagen eines Diesel-Russpartikelfilters mit Druckluft

Title (fr)

Dispositif d'injection d'air comprimé indépendante de la charge d'un filtre à particules de suie diesel

Publication

EP 2295806 A3 20140730 (DE)

Application

EP 10007929 A 20100729

Priority

DE 202009010390 U 20090731

Abstract (en)

[origin: EP2295806A2] The device has two claw pistons (10, 11) shifting against each other in a cylinder housing (1). An air outlet opening (13) is provided with a cross section for obtaining a small geometrical compression ratio of a small internal compression. The claw pistons and/or shafts (14, 15) are provided with a fixed bearing (16) and a movable bearing (17). An axial distance between the bearings is smaller such that a claw compressor is inclined up to 45 degrees without the bearings with oil. The claw compressor exhibits a brushless permanent-moved synchronous motor (18) as a drive.

IPC 8 full level

F04C 18/12 (2006.01)

CPC (source: EP)

F01N 3/025 (2013.01); **F04C 18/123** (2013.01); **F04C 2240/51** (2013.01); **F04C 2250/102** (2013.01)

Citation (search report)

- [XYI] WO 03100258 A1 20031204 - LEYBOLD VAKUUM GMBH [DE], et al
- [XI] WO 2004054025 A2 20040624 - DAIMLER CHRYSLER AG [DE], et al
- [Y] DE 102007038966 A1 20090219 - BUSCH PRODUKTIONS GMBH [DE]
- [A] WO 2005093293 A1 20051006 - BOC GROUP PLC [GB], et al

Cited by

US11441563B2; US11879458B2

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

DOCDB simple family (publication)

DE 202009010390 U1 20091008; EP 2295806 A2 20110316; EP 2295806 A3 20140730; EP 2295806 B1 20180228

DOCDB simple family (application)

DE 202009010390 U 20090731; EP 10007929 A 20100729