

Title (en)

Gear pump and electric pump group having such a pump

Title (de)

Zahnradpumpe und Elektropumpengruppe versehen mit einer solchen Pumpe

Title (fr)

Pompe hydraulique du type à engrenage et groupe électro-pompe équipé d'une telle pompe

Publication

EP 1026392 B2 20120530 (FR)

Application

EP 00400294 A 20000203

Priority

FR 9901317 A 19990204

Abstract (en)

[origin: EP1026392A1] The pump has an electric motor (2) driving one of two shafts (10) carrying equal-sized meshing pinions (8,9). The fluid discharged at high pressure by the gear pump passes into a chamber (21,41) which extends upwards and allows separation of air bubbles. A de-aeration tube (48) extends down from near the top of the chamber and there is a high-pressure fluid outlet.

IPC 8 full level

F02M 37/04 (2006.01); **F02M 37/00** (2006.01); **F04C 14/28** (2006.01)

CPC (source: EP US)

F02M 37/0041 (2013.01 - EP US); **F02M 37/041** (2013.01 - EP US); **F04C 14/28** (2013.01 - EP US)

Citation (opposition)

Opponent :

- EP 0819854 A2 19980121 - KOYO SEIKO CO [JP]
- JP S6482377 A 19890328 - TOSHIBA CORP
- WO 9747510 A1 19971218 - TRW FAHRWERKSYST GMBH & CO [DE], et al
- EP 0753666 A1 19970115 - BOSCH GMBH ROBERT [DE]
- EP 0748939 A1 19961218 - HYDROPERFECT INT [FR]
- EP 0761970 A1 19970312 - HYDROPERFECT INT [FR]
- WO 9614511 A1 19960517 - HOBOURN AUTOMOTIVE LTD [GB], et al

Cited by

US7942649B2

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

EP 1026392 A1 20000809; **EP 1026392 B1 20041215**; **EP 1026392 B2 20120530**; BR 0000315 A 20001114; DE 60016643 D1 20050120; DE 60016643 T2 20051201; DE 60016643 T3 20121206; FR 2789446 A1 20000811; FR 2789446 B1 20020308; US 6322329 B1 20011127

DOCDB simple family (application)

EP 00400294 A 20000203; BR 0000315 A 20000204; DE 60016643 T 20000203; FR 9901317 A 19990204; US 49748500 A 20000204