

Title (en)

Internal gear pump

Title (de)

Füllstücklose Innenzahnradmaschine

Title (fr)

Pompe à engrenages internes

Publication

EP 0848165 B1 20010926 (DE)

Application

EP 97121424 A 19971205

Priority

DE 19651683 A 19961212

Abstract (en)

[origin: US6074189A] A filling member-less internal-gear unit has a casing with a bearing ring which is accommodated movably in a bore in the casing transversely with respect to its axis but non-rotatably. An internally toothed annular gear is rotatably mounted in the bearing ring and meshes with a pinion rotatably mounted in the casing. The bearing ring is pivotable relative to the bore in the casing about a pivot axis parallel to its axis. The pivot axis is so disposed that the ring portion of the bearing ring, which is associated with the engagement-free annular gear region, is moved at least approximately radially towards the pinion axis by the hydraulic pressure forces acting on the annular gear in the pressure chamber.

IPC 1-7

F04C 2/10

IPC 8 full level

F04C 2/10 (2006.01); **F04C 14/18** (2006.01); **F04C 14/20** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)

F04C 2/102 (2013.01 - EP KR US); **F04C 15/0019** (2013.01 - EP KR US); **F04C 15/0026** (2013.01 - EP KR US)

Cited by

WO02070898A1; WO02070899A1; DE10027811A1; DE10013760A1; DE102010009471A1; DE10004518A1; US6164943A; DE102012211229A1; DE102020111435A1; DE102018222173A1; US9394893B2

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

US 6074189 A 20000613; AT E206183 T1 20011015; DE 19651683 A1 19980618; DE 29703656 U1 19970515; DE 59704716 D1 20011031; EP 0848165 A2 19980617; EP 0848165 A3 19990818; EP 0848165 B1 20010926; JP 3323432 B2 20020909; JP H10281079 A 19981020; KR 100325593 B1 20020708; KR 19980064065 A 19981007

DOCDB simple family (application)

US 98700197 A 19971208; AT 97121424 T 19971205; DE 19651683 A 19961212; DE 29703656 U 19970228; DE 59704716 T 19971205; EP 97121424 A 19971205; JP 34257197 A 19971212; KR 19970068064 A 19971212