

Title (en)  
Transmission for deep well pump

Title (de)  
Getriebe für eine Tiefbohrlochpumpe

Title (fr)  
Dispositif de transmission pour pompe de puits

Publication  
**EP 1132620 A3 20011128 (DE)**

Application  
**EP 01103803 A 20010216**

Priority  
DE 10011187 A 20000308

Abstract (en)  
[origin: EP1132620A2] The gear is constructed for angled drive. The conical pinion (3) on the input shaft (2) meshes with the conical wheel on the output shaft (5). An additional toothed wheel (10) is assembled onto the input shaft, forming a gear pump with a second toothed wheel. This transfers fluid against the operational rotation of the gear. Preferred Features: One pump chamber (15) of the gear pump is below the fluid level. The other pump chamber is connected via a restriction (17) above the fluid level with the oil-filled interior.

IPC 1-7  
**F04C 15/04**; F04C 15/00; E21B 43/12

IPC 8 full level  
**E21B 43/12** (2006.01); **F04C 13/00** (2006.01); **F04C 14/28** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)  
**F04C 13/008** (2013.01 - EP US); **F04C 14/28** (2013.01 - EP US); **F04C 15/0061** (2013.01 - EP US)

Citation (search report)

- [Y] WO 8807126 A1 19880922 - SUPERIOR GEARBOX CO [US]
- [Y] DE 534429 C 19310926 - MASCHF AUGSBURG NUERNBERG AG
- [DA] WO 9710437 A1 19970320 - GRENKE EDWARD [CA]

Cited by  
DE102006025762B3; US8147217B2; WO2007137927A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1132620 A2 20010912**; **EP 1132620 A3 20011128**; **EP 1132620 B1 20030409**; AT E237078 T1 20030415; CA 2339427 A1 20010908; CA 2339427 C 20061003; DE 10011187 A1 20010913; DE 50100148 D1 20030515; US 2001021351 A1 20010913; US 6419472 B2 20020716

DOCDB simple family (application)  
**EP 01103803 A 20010216**; AT 01103803 T 20010216; CA 2339427 A 20010306; DE 10011187 A 20000308; DE 50100148 T 20010216; US 77610801 A 20010202