

Title (en)
Immersible motor pump unit.

Title (de)
Tauchmotorpumpenaggregat.

Title (fr)
Ensemble moto-pompe submersible.

Publication
EP 0176743 A1 19860409 (DE)

Application
EP 85110552 A 19850822

Priority
DE 3433770 A 19840914

Abstract (en)
1. Motor-driven pump set with an impeller arranged on its pump shaft and a torque-secured planetary gearing sitting between the driving motor and said pump shaft, said pump shaft running in a fixed bearing in the pump casing and with said planetary gearing as a loose bearing in the motor-driven pump set, the planetary gearing being journalled in the motor-driven pump set, characterized by the motor-driven pump set being engineered as a submersible motor-driven pump set with an axial impeller (3), by the planetary gearing (5) being engineered as a reduction gear, by a coupling (12) transmitting the bending moments, arranged between pump shaft (4) and output shaft (11) of the planetary gearing (5), and by the planetary gearing (5) shifting axially.

Abstract (de)
Die Erfindung hat ein Tauchmotorpumpenaggregat zum Gegenstand, dessen Pumpenteil mit einem Axialpropeller versehen ist. Zwischen Antriebsmotor (1) und Pumpenwelle (4) ist ein als Untersetzungsgetriebe wirkendes Planetengetriebe (5) drehmomentgesichert und axial verschieblich angeordnet. Die Verbindung zwischen Pumpenwelle (4) und Abtriebswelle (11) des Planetengetriebes (5) erfolgt durch eine Biegemomente übertragende Kupplung (12). Das Planetengetriebe (8) bildet somit das Loslager für die Pumpenwelle (4), welche im Pumpengehäuse (2) in einem Festlager (13, 14) festgelegt ist.

IPC 1-7
F04D 13/02

IPC 8 full level
F04D 13/02 (2006.01); **F04D 13/08** (2006.01)

CPC (source: EP)
F04D 13/021 (2013.01); **F04D 13/028** (2013.01)

Citation (search report)
• [A] DE 2111454 A1 19720921 - KLEIN SCHANZLIN & BECKER AG
• [A] DE 832404 C 19520225 - PLEUGER K G
• [A] DE 1004929 B 19570321 - AMAG HILPERT PEGNITZHUETTE A G
• [A] FR 1150131 A 19580108 - CONST MECANIKUES CHENARD ET WA

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CN101975172A; CN104514730A; CN102032199A

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AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0176743 A1 19860409; EP 0176743 B1 19890719; AT E44804 T1 19890815; DE 3433770 A1 19860327; DE 3571676 D1 19890824; DK 167708 B1 19931206; DK 407585 A 19860315; DK 407585 D0 19850906; JP S6172895 A 19860414

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EP 85110552 A 19850822; AT 85110552 T 19850822; DE 3433770 A 19840914; DE 3571676 T 19850822; DK 407585 A 19850906; JP 20147385 A 19850911