

Title (en)

Submersible motorpump set with signals generator

Title (de)

Tauchmotorpumpengruppe mit Steuersignalgenerator

Title (fr)

Groupe motopompe submersible à générateur de signaux

Publication

EP 0947702 B1 20031008 (FR)

Application

EP 98403010 A 19981202

Priority

FR 9804165 A 19980403

Abstract (en)

[origin: EP0947702A1] The motor/pump group, includes a motor (3) driving an impeller (4), a liquid sealed motor casing (5) and an electrical control unit (6) designed to control the motor as a function of the liquid level in a volume (C) in which the motor/pump group is placed. Liquid level is detected by a sensor (7). The control unit is sealed to prevent ingress of liquid and is fitted to the motor casing. The unit is supplied with electrical current via a cable (8), and it includes a signal generator (14), which, on receipt of a signal from the sensor, sends through the cable to another similar motor group.

IPC 1-7

F04D 13/08; **F04D 15/02**

IPC 8 full level

F04D 15/02 (2006.01)

CPC (source: EP)

F04D 15/0218 (2013.01); **F04D 15/029** (2013.01)

Cited by

EP1256724A1; FR2824601A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IE IT LI NL PT

DOCDB simple family (publication)

EP 0947703 A1 19991006; **EP 0947703 B1 20060419**; AT E251719 T1 20031015; AT E323834 T1 20060515; DE 69818797 D1 20031113; DE 69818797 T2 20040506; DE 69930889 D1 20060524; DE 69930889 T2 20061123; DK 0947702 T3 20040119; DK 0947703 T3 20060821; EP 0947702 A1 19991006; EP 0947702 B1 20031008; ES 2203910 T3 20040416; ES 2262294 T3 20061116; FR 2777047 A1 19991008; FR 2777047 B1 20000602; PT 947702 E 20040227; PT 947703 E 20060831

DOCDB simple family (application)

EP 99400093 A 19990115; AT 98403010 T 19981202; AT 99400093 T 19990115; DE 69818797 T 19981202; DE 69930889 T 19990115; DK 98403010 T 19981202; DK 99400093 T 19990115; EP 98403010 A 19981202; ES 98403010 T 19981202; ES 99400093 T 19990115; FR 9804165 A 19980403; PT 98403010 T 19981202; PT 99400093 T 19990115