

Title (en)
LIFTING DEVICE FOR A SUBMERSIBLE MOTOR-DRIVEN PUMP

Publication
EP 0304797 B1 19930602 (DE)

Application
EP 88113401 A 19880818

Priority
DE 3728429 A 19870826

Abstract (en)
[origin: EP0304797A2] A device for lifting and lowering a submersible motor-driven pump. Starting from a lifting device with a load lifting member which can be moved up and down on a guide and is to be connected via a coupling device to a carrying part arranged on the submersible motor-driven pump, the object of the invention was to ensure the safe lowering and - above all - the safe lifting of such submersible motor-driven pumps which are arranged in a heavily contaminated pumping medium. To achieve the required safety, the solution according to the invention uses such elements which have proved reliable as load lifting members, such as load hooks and shackles. So that these elements can also be made suitable for coupling and uncoupling at a remote location which cannot be inspected, the invention provides for the load hook to be moved along two guide ropes, in the course of which the load hook acted upon by a counterweight in the direction of the unlatching position can be moved into the latching position by means of an actuating rope reaching to the upper level. <IMAGE>

IPC 1-7
B66C 1/34; F04D 29/60

IPC 8 full level
B66C 1/14 (2006.01); **B66C 1/34** (2006.01); **F04D 29/60** (2006.01)

CPC (source: EP)
B66C 1/14 (2013.01); **B66C 1/34** (2013.01); **F04D 29/605** (2013.01); **F04D 29/606** (2013.01)

Cited by
FR2736906A1; CN103274286A; CN109114009A; CN113526323A; EP0775663A1; US6036246A; EP0661232A1; CN108204379A

Designated contracting state (EPC)
AT BE CH ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0304797 A2 19890301; EP 0304797 A3 19900808; EP 0304797 B1 19930602; AT E90067 T1 19930615; DE 3728429 A1 19890309; DE 3728429 C2 19900809

DOCDB simple family (application)
EP 88113401 A 19880818; AT 88113401 T 19880818; DE 3728429 A 19870826