

Title (en)

PUMP STATION

Publication

EP 0160641 B1 19880601 (EN)

Application

EP 83903594 A 19831021

Priority

SE 8300357 W 19831021

Abstract (en)

[origin: WO8501781A1] In pump stations for waste water comprising an upper part (5) functioning as control room and a lower part (1) for further conveyance of the waste water, there is a need to simplify both the function of the pump and its service. These objectives are achieved by utilizing one or more units consisting of pump (12) and non-return valve (16) which are vertically movable along guides (33) and which are also capable of opening and closing a valve (25) in a waste-water pipe (21) to which the unit can be connected, each non-return valve (16) being closable against the action of a force.

IPC 1-7

F04D 13/08

IPC 8 full level

E03F 5/10 (2006.01); **F04D 13/08** (2006.01); **F04D 29/60** (2006.01)

CPC (source: EP)

F04D 13/086 (2013.01); **F04D 29/607** (2013.01)

Citation (examination)

"Fachwissen des Ingenieurs" 6. Auflage 1974 VEB Fachbuch Leipzig, pages 400/401

Designated contracting state (EPC)

AT BE DE FR GB NL SE

DOCDB simple family (publication)

WO 8501781 A1 19850425; AT E34811 T1 19880615; AU 2126083 A 19850507; DE 3376864 D1 19880707; EP 0160641 A1 19851113; EP 0160641 B1 19880601; JP S61500323 A 19860227

DOCDB simple family (application)

SE 8300357 W 19831021; AT 83903594 T 19831021; AU 2126083 A 19831021; DE 3376864 T 19831021; EP 83903594 A 19831021; JP 50348983 A 19831021