

Title (en)

A method and a device for automatic circulation in a waste water pump station

Title (de)

Verfahren und Einrichtung für automatische Zirkulation in einer Abwasserpumpanlage

Title (fr)

Procédé et dispositif pour la circulation automatique dans une station de pompage d'eau usée

Publication

EP 0623713 B1 19990721 (EN)

Application

EP 94850059 A 19940420

Priority

SE 9301459 A 19930429

Abstract (en)

[origin: EP0623713A1] The invention concerns a method and a device for obtaining automatic circulation in waste water pump stations. On the pressure side the pump unit is provided with a valve (6) which during certain periods opens a connection between the pump and the pump station, thus obtaining a circulation in the latter. The valve (6) is opened and closed by a valve ball (10) which is controlled by the pump pressure. <IMAGE>

IPC 1-7

E03F 5/22

IPC 8 full level

E03F 5/22 (2006.01); **F04D 13/08** (2006.01); **F04D 13/16** (2006.01); **F16K 17/34** (2006.01)

CPC (source: EP)

E03F 5/22 (2013.01); **F04D 15/0005** (2013.01); **F04D 29/708** (2013.01)

Cited by

CN109906293A; DE19754751C1; CN108167454A; EP1154085A1; DE19834902B4

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

EP 0623713 A1 19941109; EP 0623713 B1 19990721; AU 5789394 A 19941103; AU 674561 B2 19970102; CA 2122087 A1 19941030; CA 2122087 C 19981229; DE 69419562 D1 19990826; DE 69419562 T2 20000203; DK 0623713 T3 19991129; JP 2607839 B2 19970507; JP H0776873 A 19950320; NO 941463 D0 19940421; NO 941463 L 19941031; SE 501192 C2 19941205; SE 9301459 D0 19930429; SE 9301459 L 19941030

DOCDB simple family (application)

EP 94850059 A 19940420; AU 5789394 A 19940317; CA 2122087 A 19940425; DE 69419562 T 19940420; DK 94850059 T 19940420; JP 8929994 A 19940427; NO 941463 A 19940421; SE 9301459 A 19930429