

Title (en)

DEVICE FOR CLEANING TUBS WHICH CONTAIN LIQUID IN WORKING CONDITIONS, AND USE OF THE DEVICE IN A WASHER CHAMBER

Title (de)

VORRICHTUNG ZUM REINIGEN VON WANNEN, DIE BEI BETRIEBSBEDINGUNGEN FLÜSSIGKEIT ENTHALTEN UND VERWENDUNG DER VORRICHTUNG IN EINER WÄSCHERKAMMER

Title (fr)

DISPOSITIF POUR NETTOYAGE DE CUVES CONTENANT DU LIQUIDE EN CONDITIONS DE SERVICE ET UTILISATION DE CE DISPOSITIF DANS UNE CHAMBRE DE LAVEUR

Publication

EP 0918913 B1 20020703 (DE)

Application

EP 97943812 A 19970814

Priority

- DE 19633057 A 19960816
- EP 9704470 W 19970814

Abstract (en)

[origin: US6163914A] PCT No. PCT/EP97/04470 Sec. 371 Date Jun. 4, 1999 Sec. 102(e) Date Jun. 4, 1999 PCT Filed Aug. 14, 1997 PCT Pub. No. WO98/07936 PCT Pub. Date Feb. 26, 1998An apparatus for cleaning tubs filled with a liquid, wherein a suction device which can be moved by a drive communicating with a delivery pipe is arranged on a base of the tub. The drive is operated by a pressurized fluid and drives a water wheel which is non-positively coupled to a displacement device contacting the base of the tub. A filter unit is connected to a suction pipe of the suction device. The suction device has a guide system for to and from movements and a two-way valve is actuated by limit switches for alternative opening of a passage for reversing movement of the water wheel. The apparatus can be used in a washer chamber of an aeration plant.

IPC 1-7

E04H 4/16

IPC 8 full level

B08B 9/08 (2006.01); **A47L 7/00** (2006.01); **B01D 35/02** (2006.01); **E04H 4/16** (2006.01)

CPC (source: EP KR US)

E04H 4/16 (2013.01 - KR); **E04H 4/1654** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6163914 A 20001226; AT E220166 T1 20020715; AU 4551997 A 19980306; AU 720917 B2 20000615; CA 2264114 A1 19980226; CN 1095916 C 20021211; CN 1233309 A 19991027; DE 19633057 C1 19980312; DE 59707659 D1 20020808; DK 0918913 T3 20021111; EP 0918913 A1 19990602; EP 0918913 B1 20020703; ES 2179371 T3 20030116; JP 2000516505 A 20001212; KR 20000068259 A 20001125; NO 312849 B1 20020708; NO 990624 D0 19990210; NO 990624 L 19990414; NZ 334094 A 20000929; PL 184474 B1 20021129; PL 331734 A1 19990802; PT 918913 E 20021129; RU 2198042 C2 20030210; SK 20799 A3 20000313; TR 199900316 T2 19990421; WO 9807936 A1 19980226

DOCDB simple family (application)

US 24242099 A 19990604; AT 97943812 T 19970814; AU 4551997 A 19970814; CA 2264114 A 19970814; CN 97198589 A 19970814; DE 19633057 A 19960816; DE 59707659 T 19970814; DK 97943812 T 19970814; EP 9704470 W 19970814; EP 97943812 A 19970814; ES 97943812 T 19970814; JP 51038798 A 19970814; KR 19997001394 A 19990214; NO 990624 A 19990210; NZ 33409497 A 19970814; PL 33173497 A 19970814; PT 97943812 T 19970814; RU 99105206 A 19970814; SK 20799 A 19970814; TR 9900316 T 19970814