Title (en)

METHOD FOR FEEDING A CLOSED LIQUID SYSTEM

Title (de)

VERFAHREN ZUR EINSPEISUNG IN EINE GESCHLOSSENE FLÜSSIGKEITSANLAGE

Title (fr)

PROCEDE D'ALIMENTATION D'UN SYSTEME DE LIQUIDE FERME

Publication

EP 1373803 B1 20051214 (EN)

Application

EP 02714637 A 20020328

Priority

- NL 0200203 W 20020328
- NL 1017756 A 20010402
- NL 1019043 A 20010926

Abstract (en)

[origin: WO02079696A1] A method for automatically feeding a closed liquid system from a liquid source according to need by creating between the liquid source and the closed liquid system a feed buffer formed from liquid, in which between the liquid source and the feed buffer only liquid flow in the direction of the feed buffers is allowed and from the feed buffer to the closed liquid system only dropwise liquid transport is admitted. The feed buffer can be realized with a cylindrical drip feeder with inlet, outlet and freely movable plunger, which can close the outlet in an abutting position while leaving clear a minuscule leakage channel and is provided with a passage with a non-return valve in the direction of the inlet. Such a drip feeder can, with or without insertion of a storage container for liquid, be connected with, for instance, a liquid system, such as a central heating system with pipe system, boiler and expansion tank.

IPC 1-7

F24D 3/10

IPC 8 full level

F22D 5/00 (2006.01); **F16K 21/02** (2006.01); **F24D 3/10** (2006.01)

CPC (source: EP KR)

F24D 3/10 (2013.01 - EP KR); **F24D 3/1083** (2013.01 - EP)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 02079696 A1 20021010; AT E313043 T1 20051215; CA 2442696 A1 20021010; CN 1250914 C 20060412; CN 1500191 A 20040526; CZ 20032730 A3 20040414; DE 60208005 D1 20060119; DE 60208005 T2 20060817; DK 1373803 T3 20060501; EP 1373803 A1 20040102; EP 1373803 B1 20051214; ES 2256452 T3 20060716; JP 2004523720 A 20040805; KR 20030094321 A 20031211; NL 1019043 A1 20021007; NL 1019043 C2 20021025; NO 20034395 D0 20031001; NO 20034395 L 20031202; PL 363863 A1 20041129; RU 2003132065 A 20050410; RU 2275556 C2 20060427; SK 12122003 A3 20040608; TW 548385 B 20030821

DOCDB simple family (application)

NL 0200203 W 20020328; AT 02714637 T 20020328; CA 2442696 A 20020328; CN 02807667 A 20020328; CZ 20032730 A 20020328; DE 60208005 T 20020328; DK 02714637 T 20020328; EP 02714637 A 20020328; ES 02714637 T 20020328; JP 2002578072 A 20020328; KR 20037013009 A 20031002; NL 1019043 A 20010926; NO 20034395 A 20031001; PL 36386302 A 20020328; RU 2003132065 A 20020328; SK 12122003 A 20020328; TW 91106348 A 20020329