Title (en)
APPARATUS FOR REPETITIVELY DISPENSING A MEASURED VOLUME OF LIQUID

Title (de)
VORRICHTUNG ZUR WIEDERHOLTEN ABGABE EINES DEFINIERTEN FLÜSSIGKEITSVOLUMENS

Title (fr)
APPAREIL A DISTRIBUER A INTERVALLES REPETES DES DOSES MESUREES DE LIQUIDE

Publication
EP 0592411 B1 19960904 (EN)

Application
EP 91910935 A 19910607

Priority
- SE 9002050 A 19900607
- SE 9100411 W 19910607

Abstract (en)
[origin: WO9119099A1] An apparatus for delivering measured liquid volumes comprises a dosing piston pump (13) having an outlet (53/54) for the measured liquid volumes, and a liquid accumulating device (12) including an accumulator chamber (17) having an inlet for liquid to be dispensed. The accumulator chamber (17) communicates with the pump chamber (30) of the dosing piston pump through a transfer passage (31) having a valve (14) for controlling the transfer of liquid from the accumulator chamber to the pump chamber. The accumulator chamber (17) is expandable to accommodate constantly inflowing liquid through the inlet when the transfer passage (31) is blocked and is contractable as a result of the displacement of a movable wall member (18) so as when the transfer passage is open to transfer accumulated liquid to the dosing piston pump while inflowing liquid flows direct to the dosing piston pump.

IPC 1-7
F04B 43/02

IPC 8 full level
F04B 11/00 (2006.01); **F04B 13/00** (2006.01); **F04B 43/02** (2006.01)

IPC 8 main group level
F04B (2006.01)

CPC (source: EP US)
F04B 11/0075 (2013.01 - EP); **F04B 13/00** (2013.01 - EP); **F04B 43/021** (2013.01 - EP US)

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

DOCDB simple family (publication)
WO 9119099 A1 19911212; AT E142310 T1 19960915; AU 660279 B2 19950622; AU 8096891 A 19911231; BR 9106635 A 19930608;
CA 2084675 A1 19911208; DE 69121913 D1 19961010; DE 69121913 T2 19970403; DK 0592411 T3 19970224; EP 0592411 A1 19940420;
EP 0592411 B1 19960904; JP H05507780 A 19931104; NO 924631 D0 19921201; NO 924631 L 19921201; SE 9002050 D0 19900607;
SE 9002050 L 19920107; SE 9101745 D0 19910607; SE 9101745 L 19911208

DOCDB simple family (application)
SE 9100411 W 19910607; AT 91910935 T 19910607; AU 8096891 A 19910607; BR 9106635 A 19910607; CA 2084675 A 19910607;
DE 69121913 T 19910607; DK 91910935 T 19910607; EP 91910935 A 19910607; JP 51079591 A 19910607; NO 924631 A 19921201;
SE 9002050 A 19900607; SE 9101745 A 19910607