

Title (en)
DEVICE FOR DISCHARGING A LIQUID

Title (de)
VORRICHTUNG ZUM AUSBRINGEN EINER FLÜSSIGKEIT

Title (fr)
DISPOSITIF POUR EXPRIMER UN LIQUIDE

Publication
EP 1036031 A1 20000920 (DE)

Application
EP 98965678 A 19981118

Priority
• DE 19753286 A 19971201
• EP 9807401 W 19981118

Abstract (en)
[origin: US6360921B1] An apparatus for discharging a liquid from a container is provided. A mobile unit is disposed in the container in such a way as to be movable therein in a contact-free manner for reducing the volume of the container. A bellows connects the mobile unit in a liquid-tight manner to an inner wall of the container. An interior chamber of the bellows that faces away from the container, together with a housing, form a space that is closed off against the exterior. A spindle, as a drive apparatus, is disposed in this space. The spindle is connected to the mobile unit in the interior chamber of the bellows.

IPC 1-7
B67D 5/02; **F04B 43/02**

IPC 8 full level
B65D 83/00 (2006.01); **B67D 1/10** (2006.01); **B67D 7/02** (2010.01); **F04B 43/02** (2006.01); **F04B 43/08** (2006.01)

CPC (source: EP KR US)
B67D 1/102 (2013.01 - EP US); **B67D 7/02** (2013.01 - KR); **B67D 7/0227** (2013.01 - EP US); **F04B 43/02** (2013.01 - EP US)

Citation (search report)
See references of WO 9928232A1

Designated contracting state (EPC)
AT BE DE FR GB IT NL

DOCDB simple family (publication)
US 6360921 B1 20020326; AT E207449 T1 20011115; DE 19753286 A1 19990610; DE 19753286 C2 20010301; DE 59801898 D1 20011129; EP 1036031 A1 20000920; EP 1036031 B1 20011024; JP 2001524431 A 20011204; KR 100355061 B1 20021005; KR 20010032694 A 20010425; TW 436879 B 20010528; WO 9928232 A1 19990610

DOCDB simple family (application)
US 55598800 A 20000602; AT 98965678 T 19981118; DE 19753286 A 19971201; DE 59801898 T 19981118; EP 9807401 W 19981118; EP 98965678 A 19981118; JP 2000523143 A 19981118; KR 20007005977 A 20000601; TW 87119550 A 19981208