

Title (en)
Metering device

Title (de)
Dosiervorrichtung

Title (fr)
Dispositif de dosage

Publication
EP 1439002 B1 20080514 (DE)

Application
EP 03022019 A 20031001

Priority
DE 10301343 A 20030116

Abstract (en)
[origin: EP1439002A2] A dosing apparatus (1), to deliver doses of a fluid in a laboratory, has a manual press button (3) on a spring (9), with a sensor (12) to register the pressure on it. The sensor is linked to the electrical control (17) for an electric drive motor (14), for its operation according to the applied manual pressure. A voltage supply (18) gives the required power from a battery and the like. A plunger (5,6) is operated by the motor to force out the dosed fluid.

IPC 8 full level
B01L 3/02 (2006.01)

CPC (source: EP US)
B01L 3/0227 (2013.01 - EP US); **B01L 3/0279** (2013.01 - EP US); **B01L 2200/087** (2013.01 - EP US); **B01L 2200/143** (2013.01 - EP US)

Cited by
FR2920675A1; EP1598113A1; EP2799141A3; US8201466B2; US7421913B2; WO2009034435A1; WO2018072782A1; WO2008068013A3

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1439002 A2 20040721; **EP 1439002 A3 20050608**; **EP 1439002 B1 20080514**; DE 10301343 A1 20040805; DE 10301343 B4 20041209; DE 50309835 D1 20080626; EP 1974819 A2 20081001; EP 1974819 A3 20081022; EP 1974819 B1 20110810; US 2004149052 A1 20040805; US 7146867 B2 20061212

DOCDB simple family (application)
EP 03022019 A 20031001; DE 10301343 A 20030116; DE 50309835 T 20031001; EP 08008870 A 20031001; US 75816904 A 20040115