

Title (en)
Electronic fluid dispenser

Title (de)
Elektronische Dosiervorrichtung

Title (fr)
Appareil de dosage électronique

Publication
EP 0998979 A3 20020410 (DE)

Application
EP 99120596 A 19991016

Priority
DE 19850417 A 19981102

Abstract (en)
[origin: EP0998979A2] The electrical dosing apparatus comprises a motor (1) having an electrical drive (7), at least one displacing device (2) operated by the motor (1) to pipette liquid and an electrical controlling- and/or regulating device for the motor (7) having a converter (17). The electrical controlling- and/or regulating device converts a supply voltage delivered from an electrical source (24) to a supply voltage predetermined on the load of the motor (1) in the height for the drive (7).

IPC 1-7
B01L 3/02; H02P 8/14

IPC 8 full level
G01F 11/16 (2006.01); **B01L 3/02** (2006.01); **B01L 99/00** (2010.01)

CPC (source: EP US)
B01L 3/0227 (2013.01 - EP US); **B01L 2300/027** (2013.01 - EP US)

Citation (search report)

- [X] US 4671123 A 19870609 - MAGNUSSEN JR HAAKON T [US], et al
- [A] JP H08223993 A 19960830 - CANON KK
- [X] US 5343769 A 19940906 - SUOVANIEMI OSMO [FI], et al

Cited by
CN113908899A; US8865474B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0998979 A2 20000510; **EP 0998979 A3 20020410**; **EP 0998979 B1 20080611**; DE 19850417 A1 20000511; DE 19850417 C2 20020808; DE 59914784 D1 20080724; JP 2000146663 A 20000526; JP 4981200 B2 20120718; US 6499365 B1 20021231

DOCDB simple family (application)
EP 99120596 A 19991016; DE 19850417 A 19981102; DE 59914784 T 19991016; JP 31062599 A 19991101; US 43145699 A 19991101