Title (en)

PIPETTE CAPABLE OF DETECTING THE TRAVAL OF THE PISTION AT A PREDETERMINED POSITION

Title (de)

PIPETTE GEIGNET ZUM ERKENNEN EINES KOLBENDURCHGANGS AN EINER VORBESTIMMTEN STELLE

Title (fr)

PIPETTE DE PRELEVEMENT PERMETTANT DE DETECTER LE PASSAGE DU PISTON PAR UNE POSITION PREDETERMINEE

Publication

EP 2814613 A1 20141224 (FR)

Application

EP 13707301 A 20130213

Priority

- FR 1251329 A 20120213
- EP 2013052807 W 20130213

Abstract (en)

[origin: WO2013120862A1] The invention concerns a manually actuated pipette, comprising a piston intended to perform a dispensing stroke loading first elastic return means, followed by a purge stroke loading second elastic return means, and comprising an electronic device (40) intended to receive a switching signal which translates the passage of the piston through a predetermined position along the dispensing or purge stroke thereof, position wherein the elastic means have a predetermined level of deformation. The pipette also comprises a switch (32) capable of delivering the signal to the electronic device. Moreover, an elastic support (30) is capable of deforming under the effect of the axial pressure of the operator, and the pipette is designed such that the deformation of the support, which results in switching, is caused when the force of the axial pressure is greater than that which places the elastic means at their predetermined level of deformation.

IPC 8 full level

B01L 3/02 (2006.01)

CPC (source: EP US)

B01L 3/0217 (2013.01 - EP US); **B01L 3/0237** (2013.01 - US); B01L 2200/143 (2013.01 - EP US); B01L 2300/02 (2013.01 - US); B01L 2300/023 (2013.01 - US)

Citation (search report)

See references of WO 2013120862A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 2986718 A1 20130816; **FR 2986718 B1 20140328**; BR 112014019573 A2 20170620; BR 112014019573 A8 20170711; CA 2864111 A1 20130822; CA 2864111 C 20190709; CN 104136125 A 20141105; CN 104136125 B 20160831; EP 2814613 A1 20141224; EP 2814613 B1 20160427; ES 2585078 T3 20161003; IN 1550MUN2014 A 20150508; JP 2015511878 A 20150423; JP 6240095 B2 20171129; KR 102012895 B1 20190821; KR 20140124380 A 20141024; PL 2814613 T3 20170831; US 2015004078 A1 20150101; US 9440230 B2 20160913; WO 2013120862 A1 20130822

DOCDB simple family (application)

FR 1251329 A 20120213; BR 112014019573 A 20130213; CA 2864111 A 20130213; CN 201380008814 A 20130213; EP 13707301 A 20130213; EP 2013052807 W 20130213; ES 13707301 T 20130213; IN 1550MUN2014 A 20140731; JP 2014556101 A 20130213; KR 20147023433 A 20130213; PL 13707301 T 20130213; US 201314377967 A 20130213