

Title (en)  
METERING SYSTEM WITH COMPONENT SUPPORT

Title (de)  
DOSIERSYSTEM MIT BAUELEMENTTRÄGER

Title (fr)  
SYSTÈME DE DOSAGE COMPORTANT UN SUPPORT DE COMPOSANT

Publication  
**EP 2296522 B1 20150107 (DE)**

Application  
**EP 09780553 A 20090714**

Priority  
• EP 2009058972 W 20090714  
• DE 102008033109 A 20080715

Abstract (en)  
[origin: WO2010007054A1] Metering system (1,2), in particular for positioning inside a dishwashing machine by a user, comprising at least one cartridge (1) for flowable wash detergent or cleansers, said cartridge comprising a plurality of chambers (3a, 3b, 3c) for spatially separate accommodation of different respective preparations of a wash detergent or cleanser, and a metering device (2) that can be coupled to the cartridge (1), said metering device comprising at least one energy source (15), a control unit (16), a sensor unit (17), at least one actuator (18) connected to the energy source (15) and to the control unit (16) such that a control signal from the control unit (16) effects a movement by the actuator (18), a closure element (19) coupled to the actuator (18) such that a motion by the actuator (18) moves the closure element (19) to a closing or dispensing position, at least one metering chamber (20) that is communicatively connected to at least one of the cartridge chambers (3a, 3b, 3c) when the cartridge (1) and the metering device (2) are in the assembled state, wherein the metering chamber (20) comprises an inlet (21) for intake of wash detergent or cleansers from a cartridge chamber (3a, 3b, 3c) and an outlet (22) for outflow of wash detergent or cleanser from the metering chamber (20) to the surrounding environment, wherein at least the outlet (22) of the metering chamber (20) can be closed or opened by the closure element (19), wherein the metering device (2) comprises a component support (23) where at least the metering chamber (20), the actuator (18) and the closure element (19), as well as the energy source (15) and/or the control unit (16) and/or the sensor unit (17) are disposed.

IPC 8 full level  
**A47L 15/44** (2006.01); **D06F 39/02** (2006.01)

CPC (source: EP KR US)  
**A47L 15/006** (2013.01 - EP KR US); **A47L 15/4454** (2013.01 - EP KR US); **A47L 15/4463** (2013.01 - EP KR US); **B67D 7/74** (2013.01 - KR); **D06F 39/02** (2013.01 - KR)

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010007054 A1 20100121**; CA 2731100 A1 20100121; CN 102088894 A 20110608; CN 102088894 B 20140129; EP 2296522 A1 20110323; EP 2296522 B1 20150107; ES 2534425 T3 20150422; JP 2011527922 A 20111110; KR 101616144 B1 20160427; KR 20110052575 A 20110518; MX 2011000344 A 20110315; PL 2296522 T3 20150529; RU 2011105425 A 20120820; US 2011139820 A1 20110616; US 8631972 B2 20140121

DOCDB simple family (application)  
**EP 2009058972 W 20090714**; CA 2731100 A 20090714; CN 200980127291 A 20090714; EP 09780553 A 20090714; ES 09780553 T 20090714; JP 2011517902 A 20090714; KR 20117001064 A 20090714; MX 2011000344 A 20090714; PL 09780553 T 20090714; RU 2011105425 A 20090714; US 98768111 A 20110110