

Title (en)

Hydraulic system for a laundry washing machine detergent dispenser

Title (de)

Hydraulisches System für einen Waschmittelspender einer Waschmaschine

Title (fr)

Système hydraulique pour un distributeur de détergent d'une machine à laver le linge

Publication

EP 2345759 A1 20110720 (EN)

Application

EP 11157515 A 20080114

Previously filed application

08150247 20080114 EP

Priority

- EP 11157515 A 20080114
- EP 08150247 A 20080114

Abstract (en)

1. A hydraulic system (4) for a laundry washing machine detergent dispenser (1), the detergent dispenser (1) comprising a tank (2) with a number of compartments (3); the hydraulic system (4) comprising: two delivery pipes (6); two solenoid valves (12) located upstream from the delivery pipes (6) to regulate water flow along the delivery pipes (6); three feed pipes (5) terminating in the tank (2); and a cross mixer (7) interposed between the two delivery pipes (6) and the three feed pipes (5) to direct to a central feed pipe (5) a stream of water produced by intersection of the two streams of water from both the delivery pipes (6); wherein, at the cross mixer (7), the central feed pipe (5) is "bulb-shaped"; from an inlet (8) facing the cross mixer (7), the cross section area starts out at a first minimum value, increases gradually to a maximum value, and finally decreases gradually to a second minimum value smaller than the first minimum value.

IPC 8 full level

D06F 39/02 (2006.01)

CPC (source: EP US)

D06F 39/02 (2013.01 - EP US); **D06F 39/028** (2013.01 - EP US)

Citation (search report)

- [A] WO 2004106617 A1 20041209 - ELECTROLUX HOME PROD CORP [BE], et al
- [A] EP 1595991 A1 20051116 - ELECTROLUX HOME PROD CORP [BE]
- [A] EP 0244900 A2 19871111 - PHILIPS NV [NL], et al

Cited by

US2016015240A1; US10028637B2; US11186936B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2078779 A1 20090715; EP 2078779 B1 20110713; AT E516399 T1 20110715; EP 2345758 A1 20110720; EP 2345758 B1 20120919; EP 2345759 A1 20110720; EP 2345759 B1 20140319; ES 2369801 T3 20111207; PL 2078779 T3 20120229

DOCDB simple family (application)

EP 08150247 A 20080114; AT 08150247 T 20080114; EP 11157499 A 20080114; EP 11157515 A 20080114; ES 08150247 T 20080114; PL 08150247 T 20080114