

Title (en)

Automatic dispensing device for laundry detergent composition with intermediate chamber

Title (de)

Automatische Abgabevorrichtung für eine Waschmittelzusammensetzung mit einer Zwischenkammer

Title (fr)

Distributeur automatique pour une composition détergente avec une chambre intermédiaire

Publication

EP 1728912 A1 20061206 (EN)

Application

EP 06076116 A 20060526

Priority

US 14368605 A 20050602

Abstract (en)

A non-intrusive device (1) for automatically dispensing at least one liquid laundry care composition to an automatic laundry washing machine (6), the device (1) being located along the water supply feed to the washing machine (6) with incoming (2,4) and outgoing (12,14) water supply hoses connected to the device (1). The device employs a Venturi tube mechanism or a pump to dose the laundry detergent care composition. The dosing is either manually controlled or controlled by a machine-generic algorithm capable of determining the actual cycle at any duration of wash for various cycle designs from various washing machines, without the input of precise cycle design; and dose the correct products correctly and is capable of distinguishing between major water addition and a water pulse.

IPC 8 full level

D06F 39/02 (2006.01); **A47L 15/44** (2006.01)

CPC (source: EP US)

A47L 15/4427 (2013.01 - EP US); **A47L 15/4454** (2013.01 - EP US); **A47L 15/4472** (2013.01 - EP US); **D06F 33/37** (2020.02 - EP US); **D06F 39/022** (2013.01 - EP US); **D06F 34/08** (2020.02 - EP US); **D06F 2103/22** (2020.02 - EP US); **D06F 2105/58** (2020.02 - EP US)

Citation (search report)

- [YD] US 4981024 A 19910101 - BELDHAM PAUL M [US]
- [Y] DE 3236486 A1 19830505 - ELBI INT SPA [IT]
- [A] FR 2754184 A1 19980410 - PARIZZI MAURICE [FR]
- [A] US 5435157 A 19950725 - LAUGHLIN TIMOTHY E [US]
- [A] EP 0033684 A1 19810812 - THOMSON BRANDT [FR]

Cited by

EP3817780A4; ITPD20110382A1; CN102517850A; CN102199852A; CN102108618A; IT201800006844A1; CN106996014A; RU2506362C2; DE102019116842A1; US11131055B2; US9340918B2; US11910982B2; US11807974B2; WO2012076196A3; WO2011066805A1; WO2010007047A1; WO2019068473A1; WO2019114505A1; WO2008019902A1; US8739578B2; US10982373B2; WO2008120930A3; WO2009095003A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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