

Title (en)
DEVICE FOR THE OPTIMIZED DILUTION AND DISPENSING OF PRODUCTS SUCH AS DETERGENTS OF A BIOLOGICAL TYPE

Title (de)
VORRICHTUNG ZUR OPTIMIERTEN VERDÜNNUNG UND AUSGABE VON PRODUKTEN WIE REINIGUNGSMITTELN BIOLOGISCHER ART

Title (fr)
DISPOSITIF POUR LA DILUTION ET LA DISTRIBUTION OPTIMISÉES DE PRODUITS TELS QUE DES DÉTERGENTS DE TYPE BIOLOGIQUE

Publication
EP 3901085 A1 20211027 (EN)

Application
EP 21169307 A 20210420

Priority
IT 202000008347 A 20200420

Abstract (en)
Device (100) for the optimized dilution and dispensing of products, such as detergents of a biological type, comprising:- an electronic control unit (101) with local network and/ or internet connectivity;- a plurality of electric pumps (102a, ... 102n) which are connected to the electronic unit (101);- a plurality of tanks (107a, ... 107n) which are suitable for containing detergents of a biological type, each of the tanks comprised in the plurality of tanks (107a, ... 107n) being connected to an electric pump which is comprised in the plurality of electric pumps (102a, ... 102n) ;- an electronic scale (103) which comprises a load cell which is housed in a compartment (106) for dispensing detergents of a biological type and which is connected to the electronic unit (101);- a control interface (105) which is configured for interaction with an operator and which is connected to the electronic unit (101).The device (100) further comprises a colour sensor (104) which is connected to the electronic unit (101) and which is suitable for identifying a bottle (60) which is introduced into the compartment (106) by the operator, and at least one pair of nozzles (109) which are positioned in an upper portion of the compartment (106) and which are suitable for filling the bottle (60), at predetermined relative percentages, with detergent and water.

IPC 8 full level
B67D 7/00 (2010.01); **G07F 13/00** (2006.01); **G07F 13/04** (2006.01); **G07F 13/06** (2006.01)

CPC (source: EP)
G07F 13/04 (2013.01); **G07F 13/06** (2013.01); **G07F 17/0092** (2013.01); **G07F 17/20** (2013.01)

Citation (applicant)

- IT BG20140008 A 20140318
- IT MI20101993 A 20101027
- CN 203799442 U 20140827 - YANGZHOU HAONENG ELECTRICAL CO LTD

Citation (search report)

- [Y] IT VR20090108 A1 20110117 - PIZZOLOTTO S P A
- [Y] US 2014231449 A1 20140821 - WEGELIN JACKSON WILLIAM [US], et al
- [A] US 4976137 A 19901211 - DECKER JAMES D [US], et al
- [A] WO 2010064064 A1 20100610 - AR CO CHIMICA SRL [IT], et al

Cited by
CN115283342A

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)
EP 3901085 A1 20211027; IT 202000008347 A1 20211020

DOCDB simple family (application)
EP 21169307 A 20210420; IT 202000008347 A 20200420