

Title (en)

FILLING APPARATUS AND METHOD FOR FILLING RECEPTACLES WITH A HOT POURABLE PRODUCT

Title (de)

FÜLLVORRICHTUNG UND VERFAHREN ZUM FÜLLEN VON BEHÄLTERN MIT EINEM HEISSEN GIESSBAREN PRODUKT

Title (fr)

PROCÉDÉ ET APPAREIL DE REMPLISSAGE DE RÉCIPIENTS AVEC UN PRODUIT VERSABLE À CHAUD

Publication

EP 3339241 A1 20180627 (EN)

Application

EP 16306769 A 20161222

Priority

EP 16306769 A 20161222

Abstract (en)

There is described a filling apparatus (1) comprising: a support body (10) defining a flowing channel (11) for a pourable product; a delivery mouth (14) which is arranged at one end (15) of the flowing channel (11) and through which the pourable product flows in use to fill a respective receptacle (2); a shutter (16) coaxially mounted within the flowing channel (11) and axially displaced in use between an open position, in which it allows the pourable product to freely flow through the flowing channel (11) and the delivery mouth (14) to fill the respective receptacle (2), and a closed position, in which it sealingly closes the delivery mouth (14); an electromagnetic actuator (18) configured to control displacements of the shutter (16) between the open and closed position and which includes a magnetic stator (19), arranged around the flowing channel (11), and a movable magnetic core (20) being part of the shutter (16) and controlled by a coil (21) of the stator (19); and an energizing equipment (22) to energize said coil (21); the energizing equipment (22) is configured to power supply the coil (21) of the stator (19), when the shutter (16) is in the closed position and the filling apparatus (1) is in stand-by, to cause the pourable product contained in the flowing channel (11) to be heated-up at a pre-set temperature (T).

IPC 8 full level

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CPC (source: EP)

B67C 3/28 (2013.01); **B67C 3/045** (2013.01); **B67C 2003/226** (2013.01); **B67C 2003/228** (2013.01)

Citation (applicant)

EP 2881636 A1 20150610 - SIDEL SPA CON SOCIO UNICO [IT]

Citation (search report)

- [AD] EP 2881636 A1 20150610 - SIDEL SPA CON SOCIO UNICO [IT]
- [A] US 2003196721 A1 20031023 - GRAFFIN ANDRE [MY]
- [A] EP 1559674 A1 20050803 - KHS MASCH & ANLAGENBAU AG [DE]
- [A] WO 2014153520 A2 20140925 - PEPSICO INC [US]
- [A] EP 1985900 A2 20081029 - OMAL S P A [IT]

Cited by

CN114746358A; EP3670433A1

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

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