

Title (en)
IMPROVED FILLING DEVICE FOR A FILLING MACHINE

Title (de)
VERBESSERTE FÜLLVORRICHTUNG FÜR EINE FÜLLMASCHINE

Title (fr)
DISPOSITIF DE REMPLISSAGE AMÉLIORÉ POUR UNE MACHINE DE REMPLISSAGE

Publication
EP 3473590 B1 20200212 (EN)

Application
EP 17306419 A 20171019

Priority
EP 17306419 A 20171019

Abstract (en)
[origin: EP3473590A1] There is described a filling device (1) for a filling machine configured to fill receptacles (3) with a pourable product; the filling device (1) comprises: a tubular body (11) having a longitudinal axis (B), defining a central flowing channel (12) configured to deliver the pourable product to a respective receptacle (3) to be filled; a shutter (13) movable within the channel (12) between a lower position, in which the shutter (13) sealingly closes the channel (12), and an upper position, in which it (13) delimits with the channel (12) an annular passage for the pourable product; and at least one gas return conduit (35), adapted to exhaust the gas present in the respective receptacle (3) during filling thereof and including at least one transversal gas conveying portion (41), extending transversally with respect to the axis (B) and crossing the channel (12); the filling device (1) further comprises a swirl device (44) carried by the shutter (13), located upstream of the gas conveying portion (41)), with reference to the motion of the pourable product towards the respective receptacle (3), and configured to impart a swirling movement to the pourable product itself; the gas conveying portion (41) is at least partially surrounded by an outer surface (47) having, in the area contacted in use by the pourable product, a beveled configuration for guiding the swirling movement of the pourable product itself.

IPC 8 full level
B67C 3/26 (2006.01); **B67C 3/28** (2006.01)

CPC (source: EP)
B67C 3/2614 (2013.01); **B67C 3/281** (2013.01); **B67C 2003/2602** (2013.01); **B67C 2003/268** (2013.01)

Cited by
CN117486153A; WO2021121592A1; EP4101809A1

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

DOCDB simple family (publication)
EP 3473590 A1 20190424; EP 3473590 B1 20200212

DOCDB simple family (application)
EP 17306419 A 20171019