Title (en)
FILLING SYSTEM FOR FILLING CONTAINERS IN A PRESSURIZED MANNER

Title (de)
FÜLLSYSTEM ZUM DRUCKFÜLLEN VON BEHÄLTERN

Title (fr)
SYSTÈME DE REMPLISSAGE POUR LE REMPLISSAGE SOUS PRESSION DE RÉCIPIENTS

Publication
EP 2534089 B1 20130918 (DE)

Application
EP 10787276 A 20101118

Priority
- DE 102010007288 A 20100208
- EP 2010007006 W 20101118

Abstract (en)
[origin: WO2011095187A1] The invention relates to a filling system for filling bottles, cans, or similar containers (2) with a liquid filling good, comprising at least one filling element (1, 1a) having at least one dispensing opening (7) for introducing the filling good into the particular container (2) in a controlled manner, means (10) for retaining and pressing the particular container (2) having a container opening (2.1) in a sealing position against the filling element (1, 1a) in the area of the dispensing opening (7), at least one pneumatic device (15.1, 16.1, 19) for producing at least one component of the press-on force, which pneumatic device can be exposed to the pressure (P1) of a gaseous and/or vaporous operating medium. In order to change and/or set the press-on force, a second component of said force is produced by a further hydraulic or pneumatic device (15.2, 16.2, 20), which is exposed to a variable or settable pressure (P2, P3, P5) of a liquid and/or gaseous and/or vaporous auxiliary medium preferably different from the process medium or is exposed to a vacuum (VAK).

IPC 8 full level
B67C 3/24 (2006.01)

CPC (source: EP US)
B67C 3/004 (2013.01 - EP US); **B67C 3/242** (2013.01 - EP US)

Cited by
IT201800004584A1; CN112292339A; WO2019202447A1

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)
DE 102010007288 A1 20110811; BR 112012013239 A2 20170328; EP 2534089 A1 20121219; EP 2534089 B1 20130918; PL 2534089 T3 20140228; SI 2534089 T1 20131129; US 2012216906 A1 20120830; US 8863789 B2 20141021; WO 2011095187 A1 20110811

DOCDB simple family (application)
DE 102010007288 A 20100208; BR 112012013239 A 20101118; EP 10787276 A 20101118; EP 2010007006 W 20101118; PL 10787276 T 20101118; SI 201030394 T 20101118; US 201013510042 A 20101118