

Title (en)
FILLING ELEMENT AND FILLING SYSTEM OR FILLING MACHINE FOR FREE-JET FILLING OF BOTTLES OR SIMILAR CONTAINERS

Title (de)
FÜLLELEMENT SOWIE FÜLLSYSTEM ODER FÜLLMASCHINE ZUM FREISTRAHLFÜLLEN VON FLASCHEN ODER DERGLEICHEN BEHÄLTERN

Title (fr)
ÉLÉMENT DE REMPLISSAGE ET SYSTÈME DE REMPLISSAGE OU MACHINE DE REMPLISSAGE POUR LE REMPLISSAGE PAR JET LIBRE DE BOUTEILLES OU DE RÉCIPIENTS SIMILAIRES

Publication
EP 2640660 B1 20140730 (DE)

Application
EP 11775910 A 20111021

Priority
• DE 102010051450 A 20101117
• EP 2011005315 W 20111021

Abstract (en)
[origin: WO2012065677A1] Filling element (1) for free-jet filling of bottles (2) or similar containers with a liquid filler, having at least one filler outlet (8) which is provided on a filling-element housing (5) and via which, during the filling operation, the liquid filler, controlled by a liquid valve (9), flows as a free jet into the respective container arranged with its container mouth (2.1) under the filler outlet (8), the cross section of the jet being equal or substantially equal to the effective cross section of the opening of the filler outlet (8), and having a container support (18) for holding the respective container underneath the filler outlet (8), specifically with the container mouth (2.1) at an axial distance from the filler outlet (8) relative to a vertical filling-element axis (FA). The filling element also comprises a filler- guiding and limiting element (20, 20a) which, at least during the free-jet filling operation, is arranged between the filling-element housing (5) and the container and at least partially surrounds the filling jet (3).

IPC 8 full level
B67C 3/26 (2006.01)

CPC (source: EP)
B67C 3/004 (2013.01); **B67C 3/26** (2013.01)

Cited by
EP4067834A1

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 102010051450 A1 20120524; EP 2640660 A1 20130925; EP 2640660 B1 20140730; SI 2640660 T1 20150130; WO 2012065677 A1 20120524

DOCDB simple family (application)
DE 102010051450 A 20101117; EP 11775910 A 20111021; EP 2011005315 W 20111021; SI 201130270 T 20111021