

Title (en)
Device for filling containers.

Title (de)
Vorrichtung zum Füllen von Behältern.

Title (fr)
Dispositif de remplissage de récipients.

Publication
EP 0414075 B1 19931118 (DE)

Application
EP 90115441 A 19900811

Priority
DE 3928009 A 19890824

Abstract (en)
[origin: EP0414075A1] A device for filling containers, in particular bottles or cans, with a preset quantity of a liquid, especially a liquid under high pressure, is described. This device has a storage container (1) which maintains the liquid (2), to be introduced, under a high pressure and which contains a gas space (3) above the liquid level. Disposed in the storage container is a metering chamber (12), the lower part of which is constructed as a container attachment (4) and which has, on its outer side, guide means for guiding a centering and sealing bell (6) for coupling to containers (8) to be filled. The metering chamber (12) projects from below through the liquid (2) into the gas space (3) of the storage container (1). By means of a displacement member (16), the volume of the metering chamber (12) can be adjusted. The interior of the containers (8) can be connected either to the gas space (3) or, alternatively, to an additional gas space (27) of reduced pressure via a return-gas pipe (21), a return-gas connection (24) and a valve (26). <IMAGE>

IPC 1-7
B67C 3/20

IPC 8 full level
B65B 3/14 (2006.01); **B65B 3/30** (2006.01); **B67C 3/20** (2006.01)

CPC (source: EP US)
B67C 3/204 (2013.01 - EP US); **B67C 2003/2657** (2013.01 - EP)

Citation (examination)
• US 3626996 A 19711214 - BINGHAM JOSEPH P, et al
• DE 2832325 A1 19800131 - NOLL MASCHFAB GMBH

Cited by
DE19749738A1; DE4312367A1; US5865225A; DE19631971A1; DE19631971C2; US10926897B2; WO9924350A1; EP3274260B1

Designated contracting state (EPC)
BE DE ES FR GB IT NL

DOCDB simple family (publication)
EP 0414075 A1 19910227; **EP 0414075 B1 19931118**; CA 2023914 A1 19910225; DE 3928009 A1 19910228; DE 59003519 D1 19931223; ES 2046622 T3 19940201; JP H03240607 A 19911028; US 5125440 A 19920630

DOCDB simple family (application)
EP 90115441 A 19900811; CA 2023914 A 19900823; DE 3928009 A 19890824; DE 59003519 T 19900811; ES 90115441 T 19900811; JP 21914590 A 19900822; US 56827390 A 19900815