

Title (en)

FILLING HEAD FOR A BOTTLE-FILLING MACHINE, AND FILLING MACHINE EQUIPPED WITH SUCH A FILLING HEAD

Publication

EP 0268524 B1 19910710 (FR)

Application

EP 87402483 A 19871104

Priority

FR 8615403 A 19861105

Abstract (en)

[origin: US4967813A] A filling head for a machine for automatic filling of bottles to a constant level, particularly in free air, and a filling machine equipped with such filling heads. The filling head has a circulation chamber into which the filling liquid enters via a feed orifice and from which the filling liquid leaves via a lower outlet orifice which is extended by a discharge tube for penetrating inside a neck of a bottle during filling. A membrane with a projection opens or closes the outlet orifice in response to control signals emitted by a detector of the filling level arranged on a zone of the discharge tube situated inside the bottle during filling.

IPC 1-7

B67C 3/26; **B67C 3/28**; **F16K 7/17**

IPC 8 full level

B67C 3/00 (2006.01); **B67C 3/28** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP US)

B67C 3/002 (2013.01 - EP US); **B67C 3/285** (2013.01 - EP US); **B67C 2003/2685** (2013.01 - EP US); **Y10T 137/7847** (2015.04 - EP US)

Citation (examination)

US 3150697 A 19640929 - RISSER IVAN H

Cited by

EP0528216A1; DE19646595A1; DE19646595C2; US10189693B2; WO2015000826A1; WO2010003666A1

Designated contracting state (EPC)

BE DE ES GB IT NL

DOCDB simple family (publication)

EP 0268524 A1 19880525; **EP 0268524 B1 19910710**; DE 3771311 D1 19910814; ES 2023429 B3 19920116; FR 2606008 A1 19880506; FR 2606008 B1 19890728; US 4967813 A 19901106

DOCDB simple family (application)

EP 87402483 A 19871104; DE 3771311 T 19871104; ES 87402483 T 19871104; FR 8615403 A 19861105; US 31284189 A 19890221