

Title (en)

Valve for pre-vacuum filler for products with particulates

Title (de)

Ventil für Prevakuumfüller für partikelförmige Produkte

Title (fr)

Valve pour remplisseur sous vide de produits contenant des particules

Publication

EP 1739019 A1 20070103 (EN)

Application

EP 06116195 A 20060628

Priority

US 69492305 P 20050628

Abstract (en)

A filler valve (30) is mounted beneath a filler bowl (32) to selectively fill containers (34) positioned at a filling station (80) beneath the valve. The filler valve includes a generally rectilinear housing (36) for receiving a rotatable filler plug (38). The filler plug is rotatable by drive rollers (166) making sequential contact with the lugs (146) of star wheel (142) located at the proximal end of the filler plug. An end plate (40) closes off the distal end portion of the valve housing, and a distribution plate (42), rotatable with the plug, is sandwiched between the plug and the end plate. With the rotation of the filler plug, the flowable content from the container passes through the filler valve to the container being filled. Also, prior to the filling of the container, the container is evacuated, and during at least part of the filling process, the container is ventilated.

IPC 8 full level

B65B 31/04 (2006.01)

CPC (source: EP US)

B65B 31/044 (2013.01 - EP US)

Citation (search report)

- [XA] US 4532971 A 19850806 - MEISSNER KONRAD E [US]
- [A] US 3552453 A 19710105 - BALL ROBERT R [US], et al
- [A] US 4388955 A 19830621 - MEISSNER KONRAD E, et al
- [A] US 4448227 A 19840515 - ZANICHELLI GIUSEPPE [IT]
- [A] US 3990487 A 19761109 - LOVELAND MALCOLM W

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

US 2006289079 A1 20061228; AT E424349 T1 20090315; DE 602006005421 D1 20090416; EP 1739019 A1 20070103; EP 1739019 B1 20090304

DOCDB simple family (application)

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