

Title (en)

Filling head and filling machine with such filling heads

Title (de)

Füllelement sowie Füllmaschine mit derartigen Füllelementen

Title (fr)

Tête de remplissage et machine de remplissage avec de telles têtes de remplissage

Publication

EP 1571119 A1 20050907 (DE)

Application

EP 05003142 A 20050215

Priority

DE 102004011101 A 20040306

Abstract (en)

The filling element (1) is designed for contactless filling whereby the bottle (2) is set with its mouth (2.1) spaced from the filling element underneath the delivery opening (8). A probe (17) which determines the filling level is movable through a probe adjusting member (23) between a starting position where the probe is outside the bottle, and a measuring position where the probe extends through the bottle opening into the bottle. Independent claim describes filling machine with filling elements provided on a rotor. An actuating element (13,14) for the liquid valve (9) can be a pneumatic cylinder.

Abstract (de)

Bei einem Füllelement (1) zum berührungslosen Füllen von Behältern (2) mit einem flüssigen Füllgut ist eine die Füllhöhe bestimmende Sonde (17) durch ein Sondenstellglied (23) zwischen einer Ausgangsposition, in der sich die Sonde außerhalb des Behälters befindet, und einer Messposition bewegbar ist, in der die Sonde durch die Behälteröffnung in den Behälter hineinreicht.

IPC 1-7

B67C 3/26; **B67C 3/04**

IPC 8 full level

B67C 3/04 (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP US)

B67C 3/002 (2013.01 - EP US); **B67C 3/04** (2013.01 - EP US); **B67C 3/26** (2013.01 - EP US); **B67C 3/285** (2013.01 - EP US); **B67C 3/286** (2013.01 - EP US); **B67C 2003/2685** (2013.01 - EP US)

Citation (search report)

- [A] EP 0262483 A1 19880406 - MITSUBISHI HEAVY IND LTD [JP]
- [A] US 3783912 A 19740108 - FRIENDSHIP K
- [A] EP 0601514 A1 19940615 - KHS MASCH & ANLAGENBAU AG [DE]
- [A] FR 2800723 A1 20010511 - GANGLOFF SCOMA IND [FR]

Cited by

EP2138446A1; DE102008029208A1; CN109095424A; IT201600122730A1; US11047504B2; JP2010001076A; US8776842B2; WO2017153256A1; WO2017093095A1; WO2018100004A1; US10766753B2; US8312901B2; WO2012065677A1; WO2008138472A1; EP2029469B1; WO2024010547A1

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

EP 1571119 A1 20050907; **EP 1571119 B1 20080402**; DE 102004011101 A1 20060330; DE 102004011101 B4 20110407; DE 502005003521 D1 20080515; US 2005198921 A1 20050915; US 7650916 B2 20100126

DOCDB simple family (application)

EP 05003142 A 20050215; DE 102004011101 A 20040306; DE 502005003521 T 20050215; US 7263405 A 20050304