

Title (en)

Valve assembly for an isobaric filling machine

Title (de)

Ventilanordnung für eine isobare Füllmaschine

Title (fr)

Ensemble soupape pour une machine de remplissage isobare

Publication

EP 2236454 A1 20101006 (EN)

Application

EP 10158221 A 20100329

Priority

IT PD20090075 A 20090331

Abstract (en)

Valve assembly (1) for an isobaric machine for filling containers with liquids which comprises a tubular shutter (18) mounted coaxially in a supply duct (11) and a compensation cannula (26) mounted coaxially in a sealed manner in the same tubular shutter and able to be moved cyclically to automatically adjust the level of liquid in the container (4) through blowing of gas inside it. It is foreseen for there to be first actuator means (30) which move the compensation cannula cyclically, second actuator means (32) which move the first actuator means between different heights to vary the predetermined height of the level in the container and third actuator means (33) acting upon the tubular shutter to move it, irrespective of the stroke of the compensation cannula, selectively between an open position and a closed position.

IPC 8 full level

B67C 3/26 (2006.01)

CPC (source: EP)

B67C 3/262 (2013.01); **B67C 3/2628** (2013.01); **B67C 2003/2668** (2013.01)

Citation (applicant)

- DE 102005003222 A1 20060727 - KRONES AG [DE]
- US 6109483 A 20000829 - WILKE WOLFGANG [DE], et al

Citation (search report)

- [X] DE 102005003222 A1 20060727 - KRONES AG [DE]
- [X] US 6109483 A 20000829 - WILKE WOLFGANG [DE], et al
- [A] EP 1995208 A1 20081126 - GRUPPO BERTOLASO SPA [IT]
- [A] GB 2012249 A 19790725 - ORTHMANN & HERBST
- [A] EP 1544157 A1 20050622 - KHS MASCH & ANLAGENBAU AG [DE]

Cited by

WO2014054027A1; ITBS20110036A1; EP2444364A1; ITTO20120869A1; ITTO20130302A1; CN117776080A; US10040678B2; WO2014170812A1; US10633238B2; US10040582B2; FR3088632A1; WO2020099543A1; ITUB20155375A1; EP3453673A1; IT201700101252A1; EP4105164A1; IT202100015512A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2236454 A1 20101006; EP 2236454 B1 20130918; IT 1393727 B1 20120508; IT PD20090075 A1 20101001; SI 2236454 T1 20140131

DOCDB simple family (application)

EP 10158221 A 20100329; IT PD20090075 A 20090331; SI 201030467 T 20100329