

Title (en)
Isobaric machine for filling containers with liquids

Title (de)
Isobare Füllmaschine zum Füllen von Behältern

Title (fr)
Machine isobare pour remplir des récipients avec des liquides

Publication
EP 2444364 A1 20120425 (EN)

Application
EP 11186593 A 20111025

Priority
IT PD20100321 A 20101025

Abstract (en)
Isobaric machine for filling containers with liquids, which comprises a rotary turntable (2), on which a first tank (6) for the pressurised containment of a liquid gassed to be bottled in containers (4); and a plurality of valve units (3) hydraulically connected to the first tank (6) are mounted. Each valve unit (3) comprises: a supply conduit (11), for the inflow of the liquid from the first tank (6) to the containers (4) to be bottled, interception means (18, 19) associated to the supply conduit (11) and adapted to regulate the inflow of the liquid in the containers (4); a compensation cannula (26) coaxially mounted within the supply conduit (11), susceptible of transporting a gaseous fluid or a fraction of the bottled liquid, coming from the containers (4), during a step for filling and/or self-levelling the containers (4). The compensation cannula (26) traverses the first tank (6) though remaining hydraulically insulated from the latter, and it is connected - at the upper part - to a second tank (60). The latter is in communication with the first tank (6) through means for balancing the pressures advantageously obtained by means of a balancing conduit (61) of the pressures arranged between the two tanks (6, 60) to connect them. The second tank (60) is also in communication with the external environment by means of a vent valve (62) of the gaseous fluid. [B67C].

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
• DE 4005000 A1 19910822 - SEITZ ENZINGER NOLL MASCH [DE]
• EP 1995208 A1 20081126 - GRUPPO BERTOLASO SPA [IT]
• DE 3033678 A1 19810326 - VANDERGEETEN SA [BE]

Citation (search report)
• [A] DE 3033678 A1 19810326 - VANDERGEETEN SA [BE]
• [A] EP 1995208 A1 20081126 - GRUPPO BERTOLASO SPA [IT]
• [A] DE 4005000 A1 19910822 - SEITZ ENZINGER NOLL MASCH [DE]
• [A] EP 2236454 A1 20101006 - GRUPPO BERTOLASO SPA [IT]
• [A] DE 102009009340 A1 20100826 - KHS AG [DE]
• [A] EP 0554690 A1 19930811 - SEITZ ENZINGER NOLL MASCH [DE]
• [A] DE 102007009435 A1 20080828 - KHS AG [DE]

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CN113998650A; JP2018188223A; WO2014161693A1

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