

Title (en)

METHOD AND DEVICE FOR CHECKING AND CONTROLLING THE FILLING OF A SERIES OF CONTAINERS BY A GIVEN WEIGHT OF A PRODUCT HAVING A VARIABLE VOLUMETRIC WEIGHT

Publication

EP 0143692 B1 19880413 (FR)

Application

EP 84402269 A 19841109

Priority

FR 8318417 A 19831118

Abstract (en)

[origin: ES8601046A1] The method is for controlling filling of containers passed through a filling station with a turntable carrying multiple filling posts. A slightly greater weight of product is passed to a metering dispenser (37) at each post. The product is then transferred from the dispenser to a container under the action of a piston controlled by springs (40). Each container is filled at a post containing a weight meter which records the weight during filling. - The weight of each container is compared to the weight of product supplied to it and filling is stopped when a set weight is reached. High closing pressures for the dispenser outlets are compensated by the springs between the piston and dispenser. (4/6) EPAB- EP-143692 B The method is for controlling filling of containers passed through a filling station with a turntable carrying multiple filling posts. A slightly greater weight of product is passed to a metering dispenser (37) at each post. The product is then transferred from the dispenser to a container under the action of a piston controlled by springs (40). Each container is filled at a post containing a weight meter which records the weight during filling. - The weight of each container is compared to the weight of product supplied to it and filling is stopped when a set weight is reached. High closing pressures for the dispenser outlets are compensated by the springs between the piston and dispenser. (21pp Dwg.No.4/6) - EP-143692 B A method for monitoring and controlling the filling of receptacles comprising the following steps of: engaging successively empty receptacles in a filling installation comprising a rotary carousel type member (3) having a plurality of filling stations, weighing each receptacle while it is still empty, carrying out the filling of each receptacle while comparing its weight to a set value, by means of a balance (36) moving with each filling station, and stopping the filling by the closure of an outlet orifice when the set value is reached, characterised in that the filling is carried out according the following steps of: filling a volumetric dispenser (37) associated with each filling station with a volume of material whose weight is slightly higher than the set value, and transferring the material from the volumetric dispenser into the receptacle by actuating a control member, the abnormal forces resulting from the closure of the outlet orifice before the flow of the total volume of material initially inserted in the volumetric dispenser being taken up by resilient means (40) interposed between the control member and the volumetric dispenser. (11pp) USAB- US4635688 A Each filling station comprises a balance (36) and a piston and cylinder volumetric dispenser (37). The piston rod (33) is actuated by a cam (34) which optionally includes an adjustable portion (341). A receptacle (39) is engaged in a filling station and the following operations take place in succession, the empty receptacle is weighed and at the same time the volumetric dispenser is filled with slightly more material than is to be dispensed. - The material in the dispenser is then transferred to the receptacle and the receptacle is continuously weighed until it has received the set weight of material. The outlet from the dispenser is then closed, thus jamming its piston before it reaches the end of its stroke. (9pp)e

[origin: ES8601046A1] The method is for controlling filling of containers passed through a filling station with a turntable carrying multiple filling posts. A slightly greater weight of product is passed to a metering dispenser (37) at each post. The product is then transferred from the dispenser to a container under the action of a piston controlled by springs (40). Each container is filled at a post containing a weight meter which records the weight during filling. - The weight of each container is compared to the weight of product supplied to it and filling is stopped when a set weight is reached. High closing pressures for the dispenser outlets are compensated by the springs between the piston and dispenser. (4/6) EPAB- EP-143692 B The method is for controlling filling of containers passed through a filling station with a turntable carrying multiple filling posts. A slightly greater weight of product is passed to a metering dispenser (37) at each post. The product is then transferred from the dispenser to a container under the action of a piston controlled by springs (40). Each container is filled at a post containing a weight meter which records the weight during filling. - The weight of each container is compared to the weight of product supplied to it and filling is stopped when a set weight is reached. High closing pressures for the dispenser outlets are compensated by the springs between the piston and dispenser. (21pp Dwg.No.4/6) - EP-143692 B A method for monitoring and controlling the filling of receptacles comprising the following steps of: engaging successively empty receptacles in a filling installation comprising a rotary carousel type member (3) having a plurality of filling stations, weighing each receptacle while it is still empty, carrying out the filling of each receptacle while comparing its weight to a set value, by means of a balance (36) moving with each filling station, and stopping the filling by the closure of an outlet orifice when the set value is reached, characterised in that the filling is carried out according the following steps of: filling a volumetric dispenser (37) associated with each filling station with a volume of material whose weight is slightly higher than the set value, and transferring the material from the volumetric dispenser into the receptacle by actuating a control member, the abnormal forces resulting from the closure of the outlet orifice before the flow of the total volume of material initially inserted in the volumetric dispenser being taken up by resilient means (40) interposed between the control member and the volumetric dispenser. (11pp) USAB- US4635688 A Each filling station comprises a balance (36) and a piston and cylinder volumetric dispenser (37). The piston rod (33) is actuated by a cam (34) which optionally includes an adjustable portion (341). A receptacle (39) is engaged in a filling station and the following operations take place in succession, the empty receptacle is weighed and at the same time the volumetric dispenser is filled with slightly more material than is to be dispensed. - The material in the dispenser is then transferred to the receptacle and the receptacle is continuously weighed until it has received the set weight of material. The outlet from the dispenser is then closed, thus jamming its piston before it reaches the end of its stroke. (9pp)e

IPC 1-7

B65B 3/26

IPC 8 full level

G01G 17/00 (2006.01); **B65B 3/26** (2006.01); **G01G 13/04** (2006.01); **G01G 17/06** (2006.01)

CPC (source: EP US)

B65B 3/26 (2013.01 - EP US)

Citation (examination)

EP 0052546 A2 19820526 - SERAC SA [FR]

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0143692 A1 19850605; **EP 0143692 B1 19880413**; AT E33469 T1 19880415; BR 8405869 A 19850917; CA 1232883 A 19880216; DE 3470401 D1 19880519; ES 537739 A0 19851016; ES 8601046 A1 19851016; FR 2555132 A1 19850524; FR 2555132 B1 19860328; JP H0627662 B2 19940413; JP S60155927 A 19850816; US 4635688 A 19870113; ZA 848851 B 19850626

DOCDB simple family (application)

EP 84402269 A 19841109; AT 84402269 T 19841109; BR 8405869 A 19841116; CA 468079 A 19841116; DE 3470401 T 19841109;
ES 537739 A 19841116; FR 8318417 A 19831118; JP 24314084 A 19841117; US 67166784 A 19841115; ZA 848851 A 19841113