

Title (en)

Contactless filling device and control method thereof

Title (de)

Kontaktlose Abfüllvorrichtung und Steuerungsverfahren dafür

Title (fr)

Dispositif de remplissage sans contact et son procédé de commande

Publication

**EP 2610210 A1 20130703 (EN)**

Application

**EP 12199787 A 20121228**

Priority

IT TO20111234 A 20111229

Abstract (en)

There is disclosed a filling valve (10, 10') for filling an article (2) with a pourable product, having a temperature higher than room temperature, comprising: a tank (6) fillable with said pourable product at said temperature higher than said room temperature; a first fluidic line (12) extending between said tank (6) and a pouring opening (14); a first valve (15) interposed along the first fluidic line (12), and displaceable between an open position and a closed position; a second fluidic line (20) fluidically connected with the first fluidic line (12) and with the tank (6); a second valve (41) interposed along the second fluidic line (20), and displaceable between a second open position in which it fluidically connects the tank (6) and the first fluidic line (12) through the second fluidic line (20), and a second closed position in which it prevents the fluidic connection between the tank (6) and the first fluidic line (12) along the second fluidic line (20); the second valve (41) is displaceable between the second open position and the second closed position independently of the pressure within the second fluidic line (20).

IPC 8 full level

**B67C 3/00** (2006.01); **B67C 3/04** (2006.01)

CPC (source: EP)

**B67C 3/004** (2013.01); **B67C 3/045** (2013.01)

Citation (applicant)

- WO 2008141717 A1 20081127 - KHS AG [DE], et al
- US 2010071802 A1 20100325 - CLUESSERATH LUDWIG [DE], et al

Citation (search report)

- [AD] WO 2008141717 A1 20081127 - KHS AG [DE], et al
- [A] DE 102007014702 A1 20080925 - KHS AG [DE]
- [A] DE 20105716 U1 20020529 - KRONES AG [DE]
- [A] EP 1215166 A2 20020619 - KHS MASCH & ANLAGENBAU AG [DE]
- [A] WO 2004110918 A1 20041223 - STK STOCCHI PROGETTI SRL [IT], et al
- [A] WO 2008138472 A1 20081120 - KHS AG [DE], et al

Cited by

EP3336052A1; IT201600128351A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2610210 A1 20130703; EP 2610210 B1 20150826**; CN 103183300 A 20130703; CN 103183300 B 20160810; IT TO20111234 A1 20130630

DOCDB simple family (application)

**EP 12199787 A 20121228**; CN 201210592486 A 20121231; IT TO20111234 A 20111229