

Title (en)

APPARATUS FOR, AND METHOD OF, INTRODUCING OR EMPTYING BULK MATERIALS IN A CONTAMINATION-FREE MANNER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM KONTAMINATIONSFREIEN ABFÜLLEN ODER ENTLEEREN VON SCHÜTTGÜTERN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉVERSEMENT OU DE SOUTIRAGE SANS CONTAMINATION DE MATIÈRES EN VRAC

Publication

EP 2285684 A1 20110223 (DE)

Application

EP 09753676 A 20090528

Priority

- EP 2009003821 W 20090528
- DE 202008007187 U 20080528

Abstract (en)

[origin: EP2128031A1] The device has connection and stop valves (1, 2) that are attached to two containers, respectively, where one of the valves is attached to the other valve in a congruent manner for connecting the containers. The valves respectively include flexible, sealing elements (10, 20) provided with passage slots (100, 200). A reversible traction drive unit (3) is engaged transverse to a slot longitudinal axis under formation of a passage hole for free-flowing bulk goods, where the passage slots are openable by the reversible traction drive unit.

IPC 8 full level

B65B 1/28 (2006.01); **B65B 37/02** (2006.01); **B65B 39/00** (2006.01); **B65B 55/00** (2006.01)

CPC (source: EP)

B65B 1/28 (2013.01); **B65B 39/005** (2013.01); **B65B 1/06** (2013.01); **B65B 39/02** (2013.01)

Cited by

CN103600872A

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2128031 A1 20091202; **EP 2128031 B1 20100922**; AT E482146 T1 20101015; AT E545584 T1 20120315; DE 202008007187 U1 20080807; DE 502009000105 D1 20101104; EP 2285684 A1 20110223; EP 2285684 B1 20120215; WO 2009144021 A1 20091203

DOCDB simple family (application)

EP 09007144 A 20090528; AT 09007144 T 20090528; AT 09753676 T 20090528; DE 202008007187 U 20080528; DE 502009000105 T 20090528; EP 09753676 A 20090528; EP 2009003821 W 20090528