Title (en)

METHOD AND DEVICE FOR RECEIVING AND HANDING OVER FINE-GRAIN TO COARSE-GRAIN SOLIDS FROM A CONTAINER TO A HIGHER PRESSURE SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUFNAHME UND ÜBERGABE VON FEIN- BIS GROBKÖRNIGEN FESTSTOFFEN AUS EINEM BEHÄLTER IN EIN SYSTEM HÖHEREN DRUCKES

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA RÉCEPTION ET LE TRANSFERT DE MATIÈRES SOLIDES EN GRAINS FINS À GROSSIERS D'UN RÉCIPIENT VERS UN SYSTÈME À PRESSION PLUS ÉLEVÉE

Publication

EP 2242707 A1 20101027 (DE)

Application

EP 09707814 A 20090123

Priority

• EP 2009000403 W 20090123
• DE 102008008419 A 20080209

Abstract (en)

[origin: WO2009097969A1] The invention relates to a device (1) and a method for receiving and handing over fine-grain to coarse-grain solids from a container to a higher pressure system via a cut-off device. The device and method according to the invention allow improvement of the hand-over of the solids while reliably guaranteeing the solids transport even for difficult bulk materials, high operational flexibility when used for various bulk materials and high flow rates towards the receiving container while avoiding compression of the bulk material. The device is characterized by at least one vertical central tubular body (2) (central tube) which is arranged inside the container (1') at a distance in the direction of gravitation (g) upstream of the cut-off device (18) and which is open at the top and at the bottom, and by gas supply devices (4, 7) impinging the container bottom (19) and/or the central tube (2) to produce a solids flow in the central tube.

IPC 8 full level

B65D 88/28 (2006.01); **B65D 88/70** (2006.01)

CPC (source: EP US)

B65D 88/28 (2013.01 - EP US); **B65D 88/70** (2013.01 - EP US)

Citation (search report)

See references of WO 2009097969A1

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)

WO 2009097969 A1 20090813; AT E515460 T1 20110715; AU 2009211886 A1 20090813; AU 2009211886 B2 20120913; BR PI0908147 A2 20150811; CA 2714206 A1 20090813; CA 2714206 C 20150120; CN 101939235 A 20110105; CN 101939235 B 20120718; DE 102008008419 A1 20090910; DK 2242707 T3 20110905; EP 2242707 A1 20101027; EP 2242707 B1 20110706; ES 2367000 T3 20111027; HK 1150161 A1 20111104; KR 20100126290 A 20101201; PL 2242707 T3 20111230; RU 2010137001 A 20120320; RU 2469939 C2 20121220; TW 200942478 A 20091016; UA 101646 C2 20130425; US 2010322721 A1 20101223; ZA 201006409 B 20110525

DOCDB simple family (application)

EP 2009000403 W 20090123; AT 09707814 T 20090123; AU 2009211886 A 20090123; BR PI0908147 A 20090123; CA 2714206 A 20090123; CN 200980104516 A 20090123; DE 102008008419 A 20080209; DK 09707814 T 20090123; EP 09707814 A 20090123; ES 09707814 T 20090123; HK 11104269 A 20110428; KR 20107017446 A 20090123; PL 09707814 T 20090123; RU 2010137001 A 20090123; TW 98103788 A 20090206; UA A201010602 A 20090123; US 73568109 A 20090123; ZA 201006409 A 20100907