

Title (en)

DEVICE FOR REMOVING FINE-GRAINED OR DUST-LIKE SOLIDS FROM A CONTAINER

Title (de)

VORRICHTUNG ZUR AUSTRAGUNG VON FEINKÖRNICEM ODER STAUBARTIGEM FESTSTOFF AUS EINEM BEHÄLTER

Title (fr)

DISPOSITIF SERVANT À EXTRAIRE UNE MATIÈRE SOLIDE À GRAINS FINS OU PULVÉRULENTE D'UN RÉSERVOIR

Publication

**EP 2262583 A2 20101222 (DE)**

Application

**EP 09716242 A 20090227**

Priority

- EP 2009001070 W 20090227
- DE 102008012731 A 20080305

Abstract (en)

[origin: WO2009109286A2] The invention relates to a device for removing fine-grained or dust-like solids from a container that is to be pressurised or that is pressurised. Said container is fitted with a double-walled removal cone or funnel. The aim of the invention is to avoid using, in particular, porous materials such as sinter metals or similar, whilst providing good conveying properties in the transfer funnel without reducing the size of the grain of the respective material. Particle-charged gas for conveying can be also used. This is achieved due to the fact that the gas outlet opening is larger than the largest particle of the removed solids and that said gas outlet openings (4) are provided with a tube support or gas supply channel (4a) extending into the inside of the annular chamber (6) and forming at least one angle having an imaginary horizontal plane and that the gas supply channel (4a) is part of a retaining device (12) for preventing solids from trickling into the annular chamber (6).

IPC 8 full level

**B01J 8/00** (2006.01); **B65D 88/72** (2006.01); **B65D 90/02** (2006.01)

CPC (source: EP KR US)

**B01J 8/003** (2013.01 - EP KR US); **B65D 88/72** (2013.01 - EP KR US); **C10J 3/503** (2013.01 - EP KR US); **C10J 3/506** (2013.01 - EP KR US); **C10J 3/52** (2013.01 - EP KR US); **C10J 3/78** (2013.01 - EP KR US); **C10J 3/84** (2013.01 - EP KR US); **B01J 2208/00761** (2013.01 - EP KR US); **B01J 2208/00769** (2013.01 - EP KR US); **C10J 2200/152** (2013.01 - EP KR US); **C10J 2300/0916** (2013.01 - EP KR US); **C10J 2300/093** (2013.01 - EP KR US); **C10J 2300/0946** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2009109286A2

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 2009109286 A2 20090911**; **WO 2009109286 A3 20091112**; **WO 2009109286 A4 20091223**; AU 2009221248 A1 20090911; AU 2009221248 B2 20130131; BR PI0908550 A2 20150922; CA 2716997 A1 20090911; CN 102083520 A 20110601; DE 102008012731 A1 20090924; EP 2262583 A2 20101222; KR 20100138983 A 20101231; MX 2010009716 A 20100930; NZ 587654 A 20130328; RU 2010140438 A 20120410; RU 2479344 C2 20130420; TW 200944451 A 20091101; UA 102245 C2 20130625; US 2011296995 A1 20111208; US 8430950 B2 20130430; ZA 201007040 B 20110629

DOCDB simple family (application)

**EP 2009001070 W 20090227**; AU 2009221248 A 20090227; BR PI0908550 A 20090227; CA 2716997 A 20090227; CN 200980107624 A 20090227; DE 102008012731 A 20080305; EP 09716242 A 20090227; KR 20107021740 A 20090227; MX 2010009716 A 20090227; NZ 58765409 A 20090227; RU 2010140438 A 20090227; TW 98106120 A 20090226; UA A201011273 A 20090227; US 73603709 A 20090227; ZA 201007040 A 20101004