

Title (en)
DEVICE FOR DISCHARGING A SOLID MATERIAL FROM A CONTAINER

Title (de)
VORRICHTUNG ZUM AUSTRAGEN EINES FESTSTOFFES AUS EINEM BEHÄLTER

Title (fr)
DISPOSITIF POUR DÉCHARGER UNE MATIÈRE SOLIDE D'UN RÉSERVOIR

Publication
EP 2288557 A1 20110302 (DE)

Application
EP 09749553 A 20090508

Priority
• EP 2009003282 W 20090508
• DE 102008024576 A 20080521

Abstract (en)
[origin: CA2724193A1] The invention relates to a device for discharging particularly a very fine-grained solid material or solid mixture from a container having a discharge funnel in the direction of gravity below the main container part, providing a solution avoiding the disadvantages of double-wall conical designs, particularly at high system pressures and having a simple, versatile design. The aim is achieved in that a part (3) of the discharge funnel is partially formed of the container wall itself in the upper region facing the container (2), said wall transitioning into a cylindrical container base (4), while the further part supporting the outlet adapter (14) is formed by a separate cylinder element (9) having a funnel part (11) and installed in the cylindrical container base (4).

IPC 8 full level
B65D 88/28 (2006.01); **B65D 88/72** (2006.01)

CPC (source: EP KR US)
B65D 88/28 (2013.01 - EP KR US); **B65D 88/72** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2009141063A1

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)
DE 102008024576 B3 20091001; AU 2009250102 A1 20091126; AU 2009250102 B2 20140717; BR PI0912881 A2 20151020; CA 2724193 A1 20091126; CN 102036886 A 20110427; EP 2288557 A1 20110302; EP 2288557 B1 20140917; KR 20110018880 A 20110224; RU 2010152014 A 20120627; RU 2487068 C2 20130710; TW 201002587 A 20100116; UA 99196 C2 20120725; US 2011058905 A1 20110310; WO 2009141063 A1 20091126; ZA 201008987 B 20120125

DOCDB simple family (application)
DE 102008024576 A 20080521; AU 2009250102 A 20090508; BR PI0912881 A 20090508; CA 2724193 A 20090508; CN 200980118201 A 20090508; EP 09749553 A 20090508; EP 2009003282 W 20090508; KR 20107026446 A 20090508; RU 2010152014 A 20090508; TW 98116484 A 20090519; UA A201015250 A 20090508; US 73686809 A 20090508; ZA 201008987 A 20101214