

Title (en)

METERING DEVICE AND METHOD FOR OPERATING SAID METERING DEVICE

Title (de)

DOSIEREINRICHTUNG UND VERFAHREN ZUM BETRIEB DIESER DOSIEREINRICHTUNG

Title (fr)

DISPOSITIF DE DOSAGE ET PROCEDE D'UTILISATION DE CE DISPOSITIF DE DOSAGE

Publication

EP 2303706 B1 20131120 (DE)

Application

EP 08773423 A 20080613

Priority

EP 2008004747 W 20080613

Abstract (en)

[origin: WO2009149727A1] The invention relates to a metering device for fine grained powder (1), in particular for medicinal powder (1) for pulmonary administration, and to a method for operating the metering device. The metering device comprises a powder pump and a metering mechanism (3), wherein the metering mechanism (3) comprises a continuous powder passage (4) and at least one metering chamber (5) with an outlet valve (6). The metering chamber (5) branches off from the powder passage (4) at an angle. The metering chamber (5) has a larger cross section than the powder passage (4). The powder (1) is conveyed through the powder passage (4) by means of the powder pump, the at least one metering chamber (5) being filled with the powder (1) in a self-levelling manner. The conveying by means of the powder pump is then interrupted, and at least one target container is filled from the metering chamber (5) with the outlet valve (6) being opened and a residual quantity of powder (1) remaining in the metering chamber (5).

IPC 8 full level

B65B 1/16 (2006.01)

CPC (source: EP US)

B65B 1/16 (2013.01 - EP US); **B65B 1/36** (2013.01 - EP US); **B65B 37/14** (2013.01 - EP US); **B65B 37/16** (2013.01 - EP US); **B65B 39/004** (2013.01 - EP US); **B65B 2039/009** (2013.01 - EP US)

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009149727 A1 20091217; EP 2303706 A1 20110406; EP 2303706 B1 20131120; US 2011108157 A1 20110512; US 8757220 B2 20140624

DOCDB simple family (application)

EP 2008004747 W 20080613; EP 08773423 A 20080613; US 99760008 A 20080613