

Title (en)

FILLING ASSEMBLY FOR METERING POWDER AND METHOD FOR OPERATING SUCH A FILLING ASSEMBLY

Title (de)

FÜLLANORDNUNG ZUM DOSIEREN VON PULVER UND VERFAHREN ZUM BETRIEB EINER SOLCHEN FÜLLANORDNUNG

Title (fr)

SYSTEME DE REMPLISSAGE PERMETTANT LE DOSAGE DE POUDRE ET PROCEDE POUR FAIRE FONCTIONNER UN TEL SYSTEME DE REMPLISSAGE

Publication

**EP 2462024 B1 20140115 (DE)**

Application

**EP 09777687 A 20090806**

Priority

EP 2009005685 W 20090806

Abstract (en)

[origin: WO2011015217A1] The invention relates to a filling assembly for volumetric metering of fine grained powder (2) and to a method for operating said filling assembly. The powder (2) is provided in a resting state in the storage container (15) arranged on the inlet side of a filling line (8), and in the filling line (8) itself. The filling device (1) has a cover (7), a filling line (8) led through the cover (7) and pressure line (9), and also a pressure pulsation device (10). A metering container (3) is moved with its filling opening (5) under the cover (7) of the filling device (1) in such a way that the filling line (8) and the pressure line (9) open into the interior (4) of the metering container (3). By means of the pressure pulsation device (10), a pressure (p) oscillating about the atmospheric ambient pressure (po) as an average is generated and, by means of the pressure line (9), is transmitted into the interior (4) of the metering container (3). Amplitude (a), frequency and period (t) of the oscillating pressure (p) are adjusted in such a way that the powder (2) in the filling line (8) is fluidized and, as a consequence of its inherent weight, falls through the filling line (8) into the metering container (3).

IPC 8 full level

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