

Title (en)
A POWDERED MATERIAL FLOW CONTROL DEVICE TO FILL A BAG AND CORRESPONDING BAG FILLING MACHINE AND PROCESS

Title (de)
FLUSSSTEUERUNGSVORRICHTUNG FÜR PULVERFÖRMIGES MATERIAL ZUM FÜLLEN EINES BEUTELS UND ENTSPRECHENDE FÜLLMASCHINE UND FÜLLVERFAHREN FÜR BEUTEL

Title (fr)
DISPOSITIF DE COMMANDE DE DÉBIT DE MATÉRIAU EN POUDRE AFIN DE REMPLIR UN SAC ET PROCÉDÉ ET MACHINE DE REMPLISSAGE DE SAC CORRESPONDANT

Publication
EP 2772443 A1 20140903 (EN)

Application
EP 14154615 A 20140211

Priority
ES 201330173 A 20130211

Abstract (en)
A powdered material flow control device for filling a bag (100) comprising a first screw conveyor (2) for transporting the material. The device (1) also comprises a second screw conveyor (4) adjacent the first screw conveyor (2). Both screw conveyors (2, 4) are vertically arranged, and, inside a housing (6) defining an inlet port (8), a outlet port (10) for the material and a common inner chamber (12), The screw conveyors (2, 4) have dimensions such that the housing (6) is externally snugly adapted to the cross section of the bag (100), said first and second screw conveyors (2, 4) rotating at a synchronized speed. The invention also proposes a machine including the device, as well as a filling process that uses the device.

IPC 8 full level
B65B 1/12 (2006.01); **B65B 1/28** (2006.01); **B65B 1/32** (2006.01)

CPC (source: EP ES)
B65B 1/12 (2013.01 - EP); **B65B 1/28** (2013.01 - EP ES); **B65B 1/30** (2013.01 - ES); **B65B 1/32** (2013.01 - EP); **B65B 37/10** (2013.01 - ES)

Citation (search report)

- [XYI] GB 413214 A 19340712 - GERH AREHNS MEK VERKST AB
- [Y] DE 2555347 A1 19770630 - CELCOMMERZ RETTENMAIER FELIX [DE]
- [Y] EP 1994817 A1 20081126 - AIMO KORTTEEN KONEPAJA OY [FI]
- [Y] WO 2007007155 A1 20070118 - FR DI FERRUZZI RAFFAELE [IT], et al
- [A] US 7004210 B1 20060228 - WEGMAN PAUL M [US], et al
- [A] GB 129633 A 19201004 - LEUMANN RICHARD [CH]

Cited by
CN110329557A; KR20180092418A; CN114715449A; CN112660435A; IT202000029162A1; WO2022118152A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2772443 A1 20140903; EP 2772443 B1 20160817; ES 2421062 A1 20130828; ES 2421062 B1 20141030; ES 2600777 T3 20170210

DOCDB simple family (application)
EP 14154615 A 20140211; ES 14154615 T 20140211; ES 201330173 A 20130211