

Title (en)

APPARATUS AND METHOD FOR BATCHING, PACKING AND PALLETIZING A GRANULAR PRODUCT

Title (de)

VORRICHTUNG UND VERFAHREN ZUM DOSIEREN, VERPACKEN UND PALETTIEREN EINES GRANULATPRODUKTS

Title (fr)

APPAREIL ET PROCÉDÉ POUR METTRE EN LOTS, EMBALLER ET PALETTISER UN PRODUIT GRANULEUX

Publication

EP 2739534 A1 20140611 (EN)

Application

EP 12769481 A 20120806

Priority

- IT BO20110488 A 20110805
- IB 2012054001 W 20120806

Abstract (en)

[origin: WO2013018074A1] An apparatus for batching, packing and palletizing a granular product is intended to receive a controlled flow of product, to introduce a predetermined quantity thereof in a bag (1) and to stack a plurality of such bags (1), closed and square-shaped, on a pallet (2). The apparatus (100) includes: a support structure (10) including a flat surface (11) and an overlaying frame (12); a bag filling unit (20), supported by the frame (12) and designed to make said closed bags (1) in a sequence, to fill them at a hopper, to weld the upper end thereof and then to move them away from the filling area towards an intermediate area (5) with the help of pick up arms (25); a palletizer unit (30), situated in the support structure (10) downstream of the bag filling unit (20) and designed to receive the bags (1) coming from this latter unit to arrange them on a pallet (2) according to predetermined sequences. The palletizer unit (30) includes handling means (31) for the bags (1), mounted at the upper part of the palletizer unit (30) and designed to take the bags (1) from the intermediate area (5) and to place them on the pallet (2). The apparatus (100) further includes a transport and square- shaping unit (40), mounted on the flat surface (11) in the intermediate area (5), downstream of the bag filling unit (20) and upstream of the palletizer unit (30), intended for receiving the bags (1) from the pick up means (25), to square-shape them and to adjust their position to make them accessible to the handling means (31), and a programmable processing unit, for controlling and synchronizing the operating sequences of the afore said bag filling unit (20), palletizer unit (30) and transport and square-shaping unit (40).

IPC 8 full level

B65B 61/06 (2006.01); **B65B 1/02** (2006.01); **B65B 1/06** (2006.01); **B65B 1/46** (2006.01); **B65B 43/30** (2006.01); **B65B 43/46** (2006.01); **B65B 51/10** (2006.01); **B65B 57/00** (2006.01); **B65B 61/24** (2006.01); **B65B 61/26** (2006.01); **B65B 61/28** (2006.01); **B65G 57/24** (2006.01); **B65G 61/00** (2006.01)

CPC (source: EP)

B65B 1/02 (2013.01); **B65B 1/06** (2013.01); **B65B 43/30** (2013.01); **B65B 43/465** (2013.01); **B65B 51/10** (2013.01); **B65B 57/00** (2013.01); **B65B 61/24** (2013.01); **B65B 61/28** (2013.01); **B65G 61/00** (2013.01); **B31B 2155/00** (2017.07); **B31B 2160/10** (2017.07); **B65B 1/46** (2013.01); **B65B 61/06** (2013.01); **B65B 61/26** (2013.01)

Citation (search report)

See references of WO 2013018074A1

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

DOCDB simple family (publication)

WO 2013018074 A1 20130207; EP 2739534 A1 20140611; IT BO20110488 A1 20130206

DOCDB simple family (application)

IB 2012054001 W 20120806; EP 12769481 A 20120806; IT BO20110488 A 20110805