Title (en)

STACKING DEVICE AND METHOD FOR UNINTERRUPTED STACKS FORMATION OF CONTINUOUSLY SUPPLIED POUCHES OF A POUCHES CHAIN

Title (de)

STAPELVORRICHTUNG UND VERFAHREN ZUR KONTINUIERLICHEN BILDUNG VON STAPELN AUS IN EINEM BEUTELSTRANG KONTINUIERLICH ZUGEFÜHRTEN BEUTELN

Title (fr)

DISPOSITIF D'EMPILAGE ET PROCÉDÉ DE FORMATION ININTERROMPUE DE PILES DE SACHETS FOURNIS EN CONTINU DANS UNE CHAÎNE DE SACHETS

Publication

EP 3052415 B1 20200325 (DE)

Application

EP 14762044 A 20140912

Priority

- DE 102013219755 A 20130930
- EP 2014069563 W 20140912

Abstract (en)

[origin: WO2015043987A1] The invention relates to a stacking device for continuously forming stacks (12a-e) of bags (18a), which bags are continuously fed in at least one bag strand (16a,d-e), which comprises at least one bag row (14a) and which is endless or cut through after each series of a defined number of bags, the stacking device comprising: at least one stack base (24a-e, 24'a-b), which is moved back and forth in a stacking motion (22a-e, 22'a) parallel to a stack layer direction (20a) at least during the formation of a stack (12a-e); a bag-feeding means (26a-d), which lays the at least one bag strand (16a,d-e) on the stack base (24a-e, 24'a-b) in such a way that the bag strand (16a,d-e) bends at least substantially because of the stacking motion (22a-e, 22'a) after each series of a number of bags that forms a stack layer (28a,c-d) and forms zig-zag-shaped stack layers (28a,c-d) or that the bag strand (16a,d-e) is layered at least substantially because of the stacking motion (22a-e, 22'a) with matching bag orientation into stack layers (28a,c-d) having the number of bags that forms the stack layer (28a,c-d); and at least one stack-transporting means (30a-e, 30'a-b) for transporting the stacks (12a-e) out of the region of influence of the stacking motion (22a-e, 22'a) after a specified number of stack layers has been reached. According to the invention a first driving unit (32a-e, 32'a-b) for driving at least one stacking motion (22a-e) is provided and a further driving unit (32'a-e, 32a-b) for driving at least one transporting motion (34a-e, 34'a) of at least one stack-transporting means (30a-e, 30'a-b) is provided.

IPC 8 full level

B65H 45/101 (2006.01); **B31B 50/98** (2017.01); **B65H 31/30** (2006.01)

CPC (source: EP US)

B65B 5/061 (2013.01 - EP US); **B65B 63/04** (2013.01 - EP US); **B65H 31/3018** (2013.01 - EP US); **B65H 31/3063** (2013.01 - EP US); **B65H 31/3081** (2013.01 - EP US); **B65H 37/06** (2013.01 - US); **B65H 45/1015** (2013.01 - EP US); B65H 2701/191 (2013.01 - EP US)

Citation (examination)

- US 4181052 A 19800101 - KOPP GEORG [CH]
- US 4435944 A 19840313 - MEYER ALFONS [DE]

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 2015043987 A1 20150402; CN 105593150 A 20160518; CN 105593150 B 20190423; DE 102013219755 A1 20150402; EP 3052415 A1 20160810; EP 3052415 B1 20200325; JP 2016536224 A 20161124; JP 6307598 B2 20180404; US 2016214827 A1 20160728

DOCDB simple family (application)

EP 2014069563 W 20140912; CN 201480054024 A 20140912; DE 102013219755 A 20130930; EP 14762044 A 20140912; JP 2016516537 A 20140912; US 201415025636 A 20140912