

Title (en)

Banding apparatus providing reduced banding material buckling

Title (de)

Banderolierer bereitstellend von reduziertem Bandmaterial

Title (fr)

Appareil permettant de fournir une consommation réduite du matériaux pour banderolage

Publication

EP 1561687 A1 20050810 (EN)

Application

EP 05250313 A 20050121

Priority

US 76886704 A 20040129

Abstract (en)

A banding material mechanism (20m) and band tightening tool (18m) using the same are disclosed, wherein there is a reduced likelihood of the banding material (28) buckling in the tool. The gripping mechanism includes gripping body (30m) and a banding material gripper component (56m) ("gripper") that reciprocates within the gripping body (30m) for iteratively: (i) gripping the banding material (28) so that a band being formed from the banding material can be tightened, and (ii) releasing the banding material (28) so that the gripper (56m) can slide along the banding material as the gripping body (30m) moves forwardly over a further length of excess banding material in preparation for performing (i) again. The gripper (56m) has a banding material contacting portion (228) with a shape that cooperates with a slot (198) provided within a banding material support platform (48m) of the gripping body (30m) such that during (i) above, the banding material is deformed into the slot thereby reducing a likelihood that (i) results in a hump in the banding material forwardly of the gripper that could prevent the gripper from effectively sliding over the banding material in (ii). <IMAGE>

IPC 1-7

B65B 13/02

IPC 8 full level

B65B 13/22 (2006.01); **B65B 13/02** (2006.01); **B65B 13/18** (2006.01); **B65H 18/28** (2006.01)

CPC (source: EP US)

B65B 13/025 (2013.01 - EP US); **B65B 13/185** (2013.01 - EP US)

Citation (search report)

- [DA] US 5566726 A 19961022 - MARELIN MIKLOS [US]
- [A] US 5483998 A 19960116 - MARELIN MIKLOS [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1561687 A1 20050810; **EP 1561687 B1 20060913**; AT E339352 T1 20061015; CN 100465070 C 20090304; CN 1648005 A 20050803; DE 602005000115 D1 20061026; DE 602005000115 T2 20070426; ES 2273313 T3 20070501; JP 2005239430 A 20050908; PL 1561687 T3 20070430; US 2005166990 A1 20050804

DOCDB simple family (application)

EP 05250313 A 20050121; AT 05250313 T 20050121; CN 200510005824 A 20050127; DE 602005000115 T 20050121; ES 05250313 T 20050121; JP 2005022032 A 20050128; PL 05250313 T 20050121; US 76886704 A 20040129