

Title (en)
AUTOMATIC STRAPPING HEAD

Title (de)
AUTOMATISCHER UMREIFUNGSKOPF

Title (fr)
TÊTE DE CERCLAGE AUTOMATIQUE

Publication
EP 3778407 A4 20211006 (EN)

Application
EP 20745939 A 20200113

Priority
• ES 201930120 U 20190124
• ES 2020070017 W 20200113

Abstract (en)
[origin: EP3778407A1] An automatic strapping head with a frame (3) made up of six aluminium plates that are welded together to create a prismatic box-like structure. It incorporates at least one clamp (5); a series of levers (33, 34); a strapping input guiding system (8, 11, 12), a strapping output system (13, 14); a resistor (27); a counterplate (26); a number of cams (7, 21); a tool for ejecting the strapping (15); a tool for gripping and joining the strapping (16); and two servomotors (1, 2), one primary (1) and one secondary (2), connected to a conical gear reducer and a high-performance planetary gear unit, which are responsible for transmitting movement to the various elements that make up the head. All of this is controlled by a number of logical control tools connected to a display screen, or something similar, enabling the user to view the data obtained while operating the head, which is helpful for modifying operational parameters.

IPC 8 full level
B65B 13/04 (2006.01); **B65B 13/18** (2006.01); **B65B 13/32** (2006.01); **B65B 57/00** (2006.01); **B65B 65/02** (2006.01)

CPC (source: EP)
B65B 13/04 (2013.01); **B65B 13/32** (2013.01); **B65B 57/00** (2013.01); **B65B 65/02** (2013.01)

Citation (search report)
• [YA] DE 102014103333 A1 20150917 - MOSCA GMBH [DE]
• [YA] GB 1212385 A 19701118 - STANLEY WORKS [US]
• [A] CN 105253349 A 20160120 - CHANGZHOU GUANGMING PACKING MACHINERY CO LTD
• [A] US 2011308404 A1 20111222 - HABERSTROH JAMES A [US], et al
• See references of WO 2020152379A1

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 3778407 A1 20210217; **EP 3778407 A4 20211006**; BR 112020026926 A2 20210803; ES 1229047 U 20190506; ES 1229047 Y 20190726; MA 52261 A 20210414; MX 2020012856 A 20210129; WO 2020152379 A1 20200730

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