

Title (en)

APPARATUS FOR OBTAINING FAST WOUND COILS OF EQUAL DIAMETERS BY COILING SEVERAL SMALL BANDS

Publication

EP 0008784 B1 19811021 (DE)

Application

EP 79103238 A 19790901

Priority

DE 2838563 A 19780904

Abstract (en)

[origin: EP0008784A1] 1. A device for obtaining tightly wound coils of equal diameter when winding multiple narrow strips, here called "strands", produced by slitting a hot - or cold-rolled strip, whereby the said strands are wound into narrow coils on a common coiler mandrel (7) ; and wherein the device comprises a spacer shooter with a boom (6a) that can be swung in the vertical plane onto the mandrel. The said boom comprising a magazine unit for storing long fiberboard spacers or the like, a device for moving the spacers out of the magazine unit in the direction of propulsion, and also an idling tracer roll (38) with a pinch roll unit (39, 40) arranged in front of it for propelling the spacers under the tracer roll, the said boom being characterized by the fact that the magazine unit has a number of parallel compartments (44 to 48) corresponding in number to the number of narrow coils and arranged over the entire width (Bmax) taken up by the narrow coils along the coiler mandrel, whereby the width of each magazine compartment is selected to match the strand width in the respective narrow coil ; the idea being that the compartments can be variably arranged side-by-side in the boom in such a way : that each magazine compartment, seen in the direction of strip travel, is aligned to the narrow coil to which it is allocated width-wise, that a selectively operation spacer shooter (60, 75) is allocated to each magazine compartment and that both the tracer roll (38) and the pinch roll unit (39, 40) are through-rolls which cover the strip width and all selectively inserted spacers (49).

IPC 1-7

B21C 47/04

IPC 8 full level

B21C 47/00 (2006.01); **B21C 47/04** (2006.01); **B65H 35/02** (2006.01); **B65H 39/14** (2006.01); **B65H 39/16** (2006.01)

CPC (source: EP)

B21C 47/006 (2013.01); **B65H 35/02** (2013.01); **B65H 39/14** (2013.01); **B65H 39/16** (2013.01); **B65H 2301/414324** (2013.01); **B65H 2701/176** (2013.01)

Cited by

CN105502053A

Designated contracting state (EPC)

AT BE CH FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0008784 A1 19800319; **EP 0008784 B1 19811021**; AT E317 T1 19811115; DE 2838563 A1 19800320; DE 2838563 C2 19830714

DOCDB simple family (application)

EP 79103238 A 19790901; AT 79103238 T 19790901; DE 2838563 A 19780904