

Title (en)

DEVICE FOR CONTINUOUSLY WINDING OR UNWINDING FLAT PRODUCTS ON OR FROM A ROLL

Publication

EP 0281790 B1 19901219 (DE)

Application

EP 88102139 A 19880213

Priority

CH 86087 A 19870306

Abstract (en)

[origin: EP0281790A1] A driven and vertically adjustable winding core (19) and a supply reel (33) for dispensing or receiving a winding band (34) to be wound on or off with the flat products (Z) are provided as well as a conveyor (16) for supplying or removing the flat products (Z) to be wound on or off. Provided between the conveyor (16) and the winding core (19) is a conveyor belt arrangement (14) which feeds or guides away the flat products (Z) and the winding band (34). In order to reduce the space requirement of the device and to simplify its drive systems while still ensuring satisfactory winding-on or winding-off, the conveyor belt arrangement (14) is designed to rotate freely and partially loops around the winding core (19) or the roll (W) thereon with spring action, the driving elements (20, 21) for the winding core (19) protruding from a vertically guided, displaceable carriage which can be raised and lowered by means of a lifting drive (24, 25) controllable by the moment application of the conveyor belt arrangement (14). <IMAGE>

IPC 1-7

B65H 5/28; **B65H 29/00**

IPC 8 full level

B65H 5/28 (2006.01); **B65H 16/10** (2006.01); **B65H 18/00** (2006.01); **B65H 18/02** (2006.01); **B65H 18/10** (2006.01); **B65H 29/00** (2006.01); **B65H 29/51** (2006.01); **B65H 29/66** (2006.01)

CPC (source: EP US)

B65H 5/28 (2013.01 - EP US); **B65H 16/103** (2013.01 - EP US); **B65H 18/10** (2013.01 - EP US); **B65H 29/006** (2013.01 - EP US); **B65H 29/66** (2013.01 - EP US); **B65H 2301/41922** (2013.01 - EP US); **B65H 2701/1932** (2013.01 - EP US)

Cited by

US6077030A; CN108177999A; EP0447903A1; BE1003625A4; EP0522890A3; EP0359727A3; EP0754639A1; US5632455A; EP0477498A1; WO9104214A1; EP0298267B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0391453 A1 19901010; **EP 0391453 B1 19921209**; AT E59178 T1 19910115; AT E83214 T1 19921215; AU 1260588 A 19880908; AU 592038 B2 19891221; CA 1306454 C 19920818; CH 679993 A5 19920529; DE 3861293 D1 19910131; DE 3876635 D1 19930121; EP 0281790 A1 19880914; EP 0281790 B1 19901219; FI 84335 B 19910815; FI 84335 C 19911125; FI 881030 A0 19880304; FI 881030 A 19880907; JP 2525637 B2 19960821; JP S63235249 A 19880930; SU 1563588 A3 19900507; US 4898336 A 19900206

DOCDB simple family (application)

EP 90110410 A 19880213; AT 88102139 T 19880213; AT 90110410 T 19880213; AU 1260588 A 19880303; CA 560410 A 19880303; CH 86087 A 19870306; DE 3861293 T 19880213; DE 3876635 T 19880213; EP 88102139 A 19880213; FI 881030 A 19880304; JP 5058988 A 19880303; SU 4355280 A 19880302; US 16334688 A 19880302