

## Title (en)

DEVICE FOR WINDING OR UNWINDING SHINGLED PRINTED PRODUCTS ARRIVING OR REMOVED BY A CONVEYOR

## Publication

**EP 0298267 B1 19910410 (DE)**

## Application

**EP 88109223 A 19880609**

## Priority

CH 252487 A 19870702

## Abstract (en)

[origin: EP0298267A1] Fastened on a winding core (22) is the one end of a winding band (30) which runs from a supply reel (29) over a deflection roller (19) which rotates at a circumferential speed corresponding to the conveying speed of the conveyor (10). The winding core (22) is driven during the winding of the package (23) and braked during the unwinding of the package (23), while at the same time the supply reel (29) is braked or driven. In order to simplify the drive design and at the same time ensure satisfactory operation of the apparatus both during winding and unwinding, the winding core (22) is coupled with an electric variable-speed motor (25) and the core of the supply reel (29) with a rotating, electric machine (34), the setpoint value and the actual value for the speed of rotation of the variable-speed motor (25) being picked up from the conveyor (10) and from the deflection roller (19), respectively, in the two directions of rotation, whereas the machine which is coupled with the core of the supply reel (29) is operated with brake slip in the one direction of rotation and with drive slip in the other. <IMAGE>

## IPC 1-7

**B65H 5/28**; **B65H 29/00**; **B65H 39/14**

## IPC 8 full level

**B65H 29/51** (2006.01); **B65H 5/28** (2006.01); **B65H 29/00** (2006.01)

## CPC (source: EP US)

**B65H 5/28** (2013.01 - EP US); **B65H 29/006** (2013.01 - EP US); **B65H 2301/41922** (2013.01 - EP US); **B65H 2701/1932** (2013.01 - EP US)

## Citation (examination)

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## Cited by

EP1980513A3; EP0579940A1; EP1155991A1; EP0477498A1; US6533207B2; WO9629271A1

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**EP 0298267 A1 19890111**; **EP 0298267 B1 19910410**; AU 1867888 A 19890105; AU 606175 B2 19910131; CA 1320185 C 19930713; CH 675873 A5 19901115; FI 883158 A0 19880701; FI 883158 A 19890103; FI 93097 B 19941115; FI 93097 C 19950227; JP 2632188 B2 19970723; JP S6428155 A 19890130; RU 2023642 C1 19941130; US 4995563 A 19910226

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