

Title (en)

Device for flying roll-changing in an unwinding station under constant web tension

Title (de)

Vorrichtung zum fliegenden Rollenwechsel in einer Abrollstation bei konstantem Bahnzug

Title (fr)

Dispositif de changement de rouleau à la volée dans un poste de dévidage et sous tension de bande constante

Publication

**EP 0795505 A3 19980204 (DE)**

Application

**EP 97101314 A 19970129**

Priority

DE 29604882 U 19960315

Abstract (en)

[origin: JPH1017182A] PROBLEM TO BE SOLVED: To prevent a temporary lowering of a web tension and to completely maintain the web tension at a point of time of an adhesion process. SOLUTION: By a number of revolutions control device 12 arranged at a control device 11, a drive device 10 is controlled to the number n of revolutions so that the rotation speed of a primary winding body 3 is increased to a value higher than the speed of a web unwound from a secondary winding body 1. The number of revolutions control device 12 decelerates the rotation speed of the primary winding body 3 from the number nr of revolutions to the number nsynch equivalent to the unwinding speed of a secondary winding body 1. The control device 11 controls deceleration to the number nsynch equivalent to the unwinding speed of the web of the secondary winding body 1 so that a brake force at a point of time at which the web of the primary winding body 3 is taken off, a brake force is adjusted to a value equivalent a force high enough to allow maintenance of a web tension. A web tension control device 13 is provided to maintain a web tension after adhesion.

IPC 1-7

**B65H 19/18**

IPC 8 full level

**B65H 19/16** (2006.01); **B65H 19/18** (2006.01); **B65H 23/182** (2006.01)

CPC (source: EP US)

**B65H 19/181** (2013.01 - EP US); **B65H 2513/10** (2013.01 - EP US); **B65H 2515/31** (2013.01 - EP US); **B65H 2515/32** (2013.01 - EP US)

Citation (search report)

- [XY] DE 4428739 C1 19960208 - VOITH GMBH J M [DE]
- [YA] US 4151594 A 19790424 - STERN NATHAN [US]

Cited by

CN109989972A

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DE FI IT SE

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DOCDB simple family (application)

**DE 29604882 U 19960315**; EP 97101314 A 19970129; JP 6285597 A 19970317; US 81597097 A 19970313