

Title (en)
Device for preparing a web wound into a stock roll

Title (de)
Vorrichtung zum Vorbereiten einer zu einer Vorratsrolle gewickelten Materialbahn

Title (fr)
Dispositif pour préparer une bande enroulée en forme de rouleau

Publication
EP 1593630 A2 20051109 (DE)

Application
EP 05103572 A 20050429

Priority
DE 102004021993 A 20040503

Abstract (en)
Several radius measurement sensors (9, 11) are located parallel to the longitudinal axis (16) of the supply roll (1). They contact the supply roll, or are non-contacting sensors. They are optical or acoustic. The measurement beam of the sensors includes an angle (alpha) of $\pm 15^\circ$ with the horizontal, or is horizontal. The sensors are located at the side of the roller, at least three sensors being situated adjacently. There are at least a pair of sensors on diametrically-opposite sides of the roller. From the sensors, an analysis unit (26) determines variations from the ideal shape of the roller. Departures from roundness, are registered from radius variations and comparisons. Comparisons of radii from the group of sensors, establish any roll conicity. The evaluation unit is also implemented as a controller (24) using a common processor (13). This controls the adhesive tape dispenser. An interface provided, reads a data set in and out. The unit writes the measured radius and its departures into the data. The sensors (9, 11) are arranged in a unit applying adhesive tape (17). This can be moved parallel to the axis (16). Two rotary rollers (3) are associated with the supply roll and are positioned at differing heights, in accordance with the radius of the supply roll.

Abstract (de)
Die Erfindung betrifft eine Vorrichtung zum Vorbereiten einer zu einer Vorratsrolle (01) gewickelten Materialbahn für einen fliegenden Rollenwechsel, mit einem Lager zum Unterstützen und Drehen der Vorratsrolle (01) um eine Längsachse, wobei mindestens ein Sensor (09,11) zum Erfassen eines Radius der Vorratsrolle (01) während deren Drehbewegung angeordnet ist. Parallel zur Längsachse der Vorratsrolle (01) sind mehrere, den Radius erfassende Sensoren (09,11) angeordnet.

IPC 1-7
B65H 19/10

IPC 8 full level
B65H 19/10 (2006.01); **B65H 19/18** (2006.01); **B65H 26/08** (2006.01)

CPC (source: EP)
B65H 19/102 (2013.01); **B65H 2511/14** (2013.01); **B65H 2553/30** (2013.01); **B65H 2553/41** (2013.01); **B65H 2553/82** (2013.01)

Cited by
CN102712431A; CN102718083A; DE102007025800A1; DE102007025800B4; DE102008042813A1; US8339260B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1593630 A2 20051109; **EP 1593630 A3 20080702**; **EP 1593630 B1 20111012**; AT E528239 T1 20111015; DE 102004021993 A1 20051201; DE 102004021993 B4 20060323

DOCDB simple family (application)
EP 05103572 A 20050429; AT 05103572 T 20050429; DE 102004021993 A 20040503