

Title (en)
Method of adjusting tension applied to web, and device for the same

Title (de)
Verfahren und Vorrichtung zur Spannungsregelung einer Bahn

Title (fr)
Méthode et dispositif pour régler la tension appliquée à une bande

Publication
EP 0831048 A1 19980325 (EN)

Application
EP 97115567 A 19970908

Priority
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Abstract (en)
It is desired to prevent disalignment of the edges of a folded sheet (U) by smoothly feeding the sheet while keeping tension fluctuations to a minimum when the sheet is unwound from a paper roll (R) set in a paper feed unit to a packaging unit even though the paper roll diameter decreases gradually as the sheet is unwound. A sheet length measuring sensor or rotary encoder (3,32) is provided in the paper feed path through which the packaging sheet unwound from the paper roll is fed toward the packaging unit. An angle sensor (24,25) is provided which comprises Hall element sensors provided on a support shaft and magnets provided on a core pipe of the paper roll (R). Any change in the signals from one of these sensors relative to the signal from the other sensor is used to calculate the paper roll winding length, and the sheet tension is adjusted to an optimum, constant level by controlling the sheet braking force stepwise according to the roll diameter measured by the sensors. <IMAGE>

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IPC 8 full level
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CPC (source: EP KR)
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Citation (search report)
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• [Y] PATENT ABSTRACTS OF JAPAN vol. 018, no. 179 (M - 1583) 28 March 1994 (1994-03-28)

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