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71 Applicant: **JAPAN TOBACCO INC.**
2-1 Toranomom 2-chome Minato-ku
Tokyo 105(JP)

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72 Inventor: **Sakano, Makoto**
41-2-104, Ooyamahigashi-cho, Itabashi-ku
Tokyo(JP)

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74 Representative: **Popp, Eugen, Dr. et al**
MEISSNER, BOLTE & PARTNER
Widenmayerstrasse 48 Postfach 86 06 24
W-8000 München 86(DE)

54 **Device for detecting leading end and remaining amount of strip-like material unrolled from roll.**

57 A device for detecting the leading end and the remaining amount of a strip-like material A) unrolled from a roll (R) is disclosed. This device includes a swing arm (5). A roller carrier (7) is pivotally mounted on the distal end portion of the swing arm (5). Two contact rollers (8) and a sensor (9) are arranged on the roller carrier (7). The contact rollers (8) of the roller carrier are brought into rolling contact with the peripheral surface of the roll. When the strip-like

material is unrolled from the roll and the diameter of the roll is changed, the swing arm (5) swings so that the roller carrier (7) follows the change in diameter. Therefore, the sensor (9) is always adjacent to the peripheral surface of the roll (R), and can reliably detect an object to be detected (C) of the strip-like material (A) of the roll.

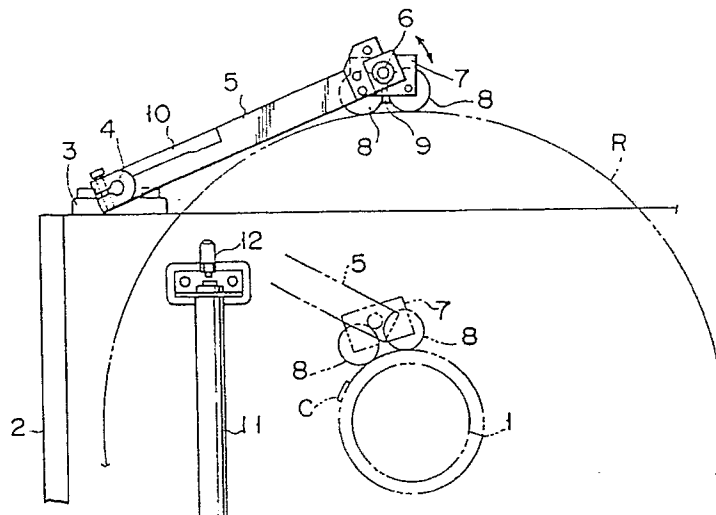


FIG. 3



**EUROPEAN SEARCH
REPORT**

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	US-A-2 047 280 (IRVING TRUST COMPANY) * page 1, left-hand column, line 30 - right-hand column, line 32; figures 1, 6 ** page 2, right-hand column, lines 39 - 62 * - - -	1-3	B 65 H 19/10
Y	DE-A-2 726 855 (AGFA-GEVAERT AG) * the whole document * - - -	1-3	
A	GB-A-588 901 (WOOD NEWS PAPER MACHINERY CORPORATION) * page 3, line 109 - page 4, line 26; figures 1, 4 * - - -	1-3	
A	GB-A-5 726 25 (WOOD NEWS PAPER MACHINERY CORPORATION) * page 2, lines 43 - 121; figure 1 * - - - - -	1-3	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 65 H
Place of search	Date of completion of search	Examiner	
The Hague	05 April 91	THIBAUT E.E.G.C.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention		E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document	