Title (en)
Device for detecting leading end and remaining amount of strip-like material unrolled from roll.

Title (de)
Vorrichtung zum Abtasten des vorderen Endes und der Restmenge eines bandförmigen, von einer Wickelrolle abgewickelten Materials.

Title (fr)
Dispositif de détection de l'extrémité de tête et de la quantité résiduelle d'un matériau en bande déroulé d'une bobine.

Publication
EP 0395023 A2 19901031 (EN)

Application
EP 90107880 A 19900425

Priority
JP 10462589 A 19890426

Abstract (en)
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.

IPC 1-7
B65H 19/10

IPC 8 full level
B65B 41/00 (2006.01); **B65B 41/12** (2006.01); **B65H 19/10** (2006.01); **B65H 23/00** (2006.01); **B65H 26/00** (2006.01)

CPC (source: EP)
B65H 19/105 (2013.01); **B65H 23/005** (2013.01)

Cited by
AU632434B2; CN110733694A; US5758982A; CN118067048A; EP3962750A4; WO2021021175A1; US10472196B2

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0395023 A2 19901031; **EP 0395023 A3 19910605**; **EP 0395023 B1 19950712**; DE 69020786 D1 19950817; DE 69020786 T2 19960208; JP 2578201 B2 19970205; JP H02286554 A 19901126

DOCDB simple family (application)
EP 90107880 A 19900425; DE 69020786 T 19900425; JP 10462589 A 19890426