

Title (en)

Device for determining the position of the edge of a moving belt

Title (de)

Vorrichtung zur Bestimmung der Lage des Randes eines laufenden Bandes

Title (fr)

Dispositif pour déterminer le bord d'une bande en déplacement

Publication

EP 0849608 A3 19980819 (DE)

Application

EP 97120897 A 19971128

Priority

DE 19653312 A 19961220

Abstract (en)

[origin: DE19653312C1] The sensor (3) has a rotary mirror (18) which deflects a beam (15) from a radiation source (5) across the direction of the belt's (1) travel, and scans an observation field. A retro-reflex beam (24) reflected on the retro-reflector is detected by a receiver (28). A second beam (21) hits the rotary mirror at a second impact point (R2) spaced apart from the first impact point (R1) of the first beam. The second retro-reflex beam (29) reflected from the impact point of the second beam on the retro-reflector (4) is detected by a second (33) or by the same receiver. The signals of the second retro-reflex beam in the evaluation circuit for determining a second position date of the edge of the belt, together with the first position date, serve to determine the spatial position.

IPC 1-7

G01S 17/02; **G01S 7/481**; **B65G 43/00**

IPC 8 full level

B65H 23/02 (2006.01)

CPC (source: EP)

B65H 23/0216 (2013.01)

Citation (search report)

- [AD] US 4788441 A 19881129 - LASKOWSKI EDWARD L [US]
- [A] US 4021031 A 19770503 - MEIHOFFER EDWARD F, et al
- [A] US 4523093 A 19850611 - NEUMANN DON B [US]
- [A] DE 1191591 B 19650422 - LICENTIA GMBH

Cited by

DE102005002189A1; DE102005002189B4; CN100406845C

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19653312 C1 19980402; EP 0849608 A2 19980624; EP 0849608 A3 19980819

DOCDB simple family (application)

DE 19653312 A 19961220; EP 97120897 A 19971128