

Title (en)

DIRECTION SENSITIVE COUNTING AND SWITCHING DEVICE

Title (de)

RICHTUNGSEMPFINDLICHE ZÄHL- UND SCHALTVORRICHTUNG

Title (fr)

DISPOSITIF COMPTEUR ET COMMUTATEUR SENSIBLE AUX DIRECTIONS

Publication

EP 0515635 B1 19960313 (DE)

Application

EP 92901333 A 19911216

Priority

- DE 4040811 A 19901214
- DE 9100994 W 19911216

Abstract (en)

[origin: WO9210812A1] A direction selective counting and switching device should be able to distinguish people and/or objects from each other and according to the direction in which they are moving, count them and/or trigger switching processes, and be installed without essential additional constructional alterations. A detector (1) designed as a multiple-element sensor shaped as one or several double rows is arranged behind a convex lens (2), so that the detection area (4) located in front of the convex lens is subdivided according to the detector shape in several small fields of view (4.1-4.15). A pin diaphragm (3), arranged preferably centrally before the convex lens, prevents the incidence of diffused light and flat rays thereon and total reflection within the lens. This device is useful in situations where people and/or objects must be separately counted according to the direction in which they are moving, for example to detect the extent of occupation of public transport means, as an optical switch, to control traffic lights and to monitor railway tracks.

IPC 1-7

G07C 9/00; **G08B 13/19**; **G08B 13/194**

IPC 8 full level

G07C 9/00 (2006.01); **G08B 13/19** (2006.01); **G08B 13/194** (2006.01)

CPC (source: EP US)

G07C 9/00 (2013.01 - EP US); **Y10S 250/01** (2013.01 - EP US)

Cited by

DE10034976A1; DE10034976B4; DE10253437A1; DE10253437B4; WO0207106A1; US6774369B2

Designated contracting state (EPC)

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