

## Title (en)

Device for the detection of data of passing vehicles on a road.

## Title (de)

Einrichtung zur Erfassung von Daten durchfahrender Fahrzeuge auf einer Strasse.

## Title (fr)

Dispositif de détection de données relatives au passage de véhicules sur une chaussée.

## Publication

**EP 0456325 A1 19911113 (FR)**

## Application

**EP 91201078 A 19910506**

## Priority

FR 9005918 A 19900511

## Abstract (en)

The invention relates to a device which records data about passing vehicles on a road (20) and consists of a piezoelectric cable (2) together with a system for rigidifying this cable and transmitting to it the stresses caused by the passing vehicles. This system is a cylindrical metallic tube (6) which has an inner diameter greater than the outer diameter of the piezoelectric cable (2) and which contains the piezoelectric cable along its axis. The space between the cable and the inner walls of the tube is filled with a compacted metal oxide powder (5), e.g. MgO. <??>This device can be installed in a groove (10) cut into the road (20), having a depth roughly equal to the outer diameter of the tube (6) and a lateral width slightly greater than this diameter. The device is mechanically fixed into the groove (10) in such a way that its upper surface is flush with the upper surface (1) of the road, e.g. by using wedges (7a, 7b) fixed to the road by bolts (8). <??>Application to the detection, counting, measurement of speed and weight, and classification, of vehicles in motion. <IMAGE>

## IPC 1-7

**G08G 1/01**; **H01B 7/16**

## IPC 8 full level

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## CPC (source: EP US)

**G08G 1/02** (2013.01 - EP US); **G08G 1/065** (2013.01 - EP US); **H01B 7/16** (2013.01 - EP US)

## Citation (search report)

- [A] EP 0145060 A2 19850619 - THERMOCOAX CIE [FR], et al
- [A] EP 0287250 A2 19881019 - GEBERT FRANZ JOSEF [ZA], et al
- [A] FR 2471066 A1 19810612 - FRANCE ETAT [FR]
- [XP] EP 0384874 A2 19900829 - ELECTRONIQUE CONTROLE MESURE [FR]
- [Y] ELECTRONIQUE INDUSTRIELLE, no. 30, 15 mars 1982, pages 73-75; P. COVILLE: "Câbles piézo-électriques: de nombreuses possibilités en mesure"
- [Y] INSTRUMENTS AND CONTROL SYSTEMS, vol. 56, no. 7, juillet 1983, pages 43-44; H.L. TRIETLEY: "Need a T/C or RTD in a hurry?"

## Cited by

CN110853370A; EP0675472A1; US5668540A

## Designated contracting state (EPC)

DE FR GB

## DOCDB simple family (publication)

**EP 0456325 A1 19911113**; CA 2042086 A1 19911112; FR 2662006 A1 19911115; JP H04231824 A 19920820; US 5206642 A 19930427

## DOCDB simple family (application)

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