

Title (en)

CIRCUIT ARRANGEMENT FOR MONITORING THE PRESENCE OF RAILWAY VEHICLES IN PREDETERMINED SECTION BLOCKS

Publication

**EP 0158011 B1 19900718 (DE)**

Application

**EP 85100757 A 19850125**

Priority

DE 3412152 A 19840331

Abstract (en)

[origin: EP0158011A2] 1. A circuit arrangement for monitoring the presence of rail vehicles within certain track sections by means of two induction loops (2a, 2b), the changes in the inductivity of which are detected in each case by an oscillator (1a, 1b), the oscillations of which are converted to square pulses and are divided in each case in a frequency divider (3a, 3b) and are fed to an evaluation circuit (6a, 6b) following the frequency dividers (3a, 3b), said evaluation circuit delivering an occupied or free signal depending upon the inductivity change at any time, the circuit arrangement also comprising means which allow the direction of travel to be determined by comparing the times of the two signals originating from the evaluation circuit (6a, 6b), characterised in that two d.c. separated clocks (11a, 11b) alternately switch the oscillators (1a, 1b) to the inoperative state, in that the oscillators (1a, 1b) are d.c. separated from one another, in that the clocks (11a, 11b) are interconnected via d.c. -separated coupling networks (13a, 13b), are quartz-stabilized and mutually synchronize one another, in that each oscillator (1a, 1b) is followed by a frequency divider (3a, 3b) which is dynamically set to a defined position, and in that a separate evaluation circuit (6a, 6b) is associated with each of the two frequency dividers (3a, 3b) following the oscillators (1a, 1b).

IPC 1-7

**B61L 1/08**; **G01V 3/10**; **G08G 1/01**

IPC 8 full level

**B61L 1/08** (2006.01); **G01V 3/10** (2006.01); **G08G 1/01** (2006.01); **G08G 1/042** (2006.01)

CPC (source: EP)

**B61L 1/08** (2013.01); **G08G 1/042** (2013.01)

Cited by

CN106274982A; DE102011103183A1

Designated contracting state (EPC)

AT BE CH DE FR LI LU NL SE

DOCDB simple family (publication)

**EP 0158011 A2 19851016**; **EP 0158011 A3 19870930**; **EP 0158011 B1 19900718**; AT E54630 T1 19900815; DE 3412152 A1 19851003; DE 3412152 C2 19860130; DE 3578679 D1 19900823; DK 143585 A 19851001; DK 143585 D0 19850329; DK 163808 B 19920406; DK 163808 C 19920907; NO 161426 B 19890508; NO 161426 C 19890816; NO 850696 L 19851001

DOCDB simple family (application)

**EP 85100757 A 19850125**; AT 85100757 T 19850125; DE 3412152 A 19840331; DE 3578679 T 19850125; DK 143585 A 19850329; NO 850696 A 19850221