

Title (en)

DETECTION ARRANGEMENT OF RAILWAY VEHICLE WHEELS

Publication

EP 0530743 A3 19930512 (DE)

Application

EP 92114914 A 19920901

Priority

- DE 4129138 A 19910902
- DE 4229131 A 19920901

Abstract (en)

[origin: EP0530743A2] In a wheel sensor for detecting wheels of railway vehicles, preferably for counting the wheels (6) in a section of track, metal-detecting, inductive sensors (1, 3, 41, 43) are attached symmetrically to travel rails (4) and their relative levels are evaluated, as a result of which interference influences of an electrical, inductive, thermal or mechanical kind are suppressed and flanged wheels can be distinguished from metal components which give the false impression of other wheels. Train types can be determined from the patterns (Fig. 4) of the signals (51, 55) when satisfactory wheels pass by and from metallic objects. The earliest arrival of the train at positions relative to the wheel sensor is calculated from the maximal speeds assigned to the train types. <IMAGE>

IPC 1-7

B61L 1/10

IPC 8 full level

B61L 1/10 (2006.01); **B61L 1/16** (2006.01)

CPC (source: EP)

B61L 1/10 (2013.01); **B61L 1/165** (2013.01)

Citation (search report)

- [A] DE 958848 C 19570228 - SIEMENS AG
- [A] US 2892078 A 19590623 - ORTHUBER RICHARD K
- [A] FR 2617315 A1 19881230 - SFIM [FR]
- [A] DE 764957 C 19530608 - VER EISENBAHN SIGNALWERKE GMBH

Cited by

EP4155162A1; EP2305533A3; CN117208034A; EP3296181A3; CN114670893A; EP4383097A1; WO2024068313A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI NL PT SE

DOCDB simple family (publication)

EP 0530743 A2 19930310; EP 0530743 A3 19930512; EP 0530743 B1 19950111; AT E116919 T1 19950115; DE 59201186 D1 19950223; ES 2069947 T3 19950516

DOCDB simple family (application)

EP 92114914 A 19920901; AT 92114914 T 19920901; DE 59201186 T 19920901; ES 92114914 T 19920901