

Title (en)

Information transmitting system between ground and mobil stations, especially in ground-train communications.

Title (de)

Informationsübertragungsanlage zwischen dem Boden und mobilen Stationen, insbesondere in den Boden-Zug Nachrichten.

Title (fr)

Système de transmission d'informations entre le sol et des mobiles notamment dans les communications sol-trains.

Publication

EP 0511103 A1 19921028 (FR)

Application

EP 92401156 A 19920423

Priority

FR 9105045 A 19910424

Abstract (en)

The invention relates to an information transmission system between the ground and mobile units. The installation consists, for example, of a section of railway line V1, equipped with beacons between its rails. The various beacons are linked to nodes, such as Ni, Nj, Nk, which are themselves linked with a Nodal Transmission Centre CNT, on the one hand, and to fixed installations such as IF on the other hand, controlling a point motor for example. The system is applicable especially to the field of information transmission between the ground and railway rolling stock, locomotives, carriages or wagons, train sets or trains. <IMAGE>

IPC 1-7

B61L 3/22

IPC 8 full level

B61L 3/16 (2006.01); **B61L 3/12** (2006.01); **B61L 3/22** (2006.01); **B61L 23/00** (2006.01); **G01S 1/02** (2010.01); **H04B 5/00** (2006.01); **H04B 7/26** (2006.01)

CPC (source: EP US)

B61L 3/125 (2013.01 - EP US); **B61L 3/225** (2013.01 - EP US); **B61L 3/227** (2013.01 - EP US)

Citation (search report)

- [X] FR 2626834 A1 19890811 - REGIE AUTONOME TRANSPORTS [FR]
- [AD] FR 2608119 A1 19880617 - ALSTHOM [FR]
- [A] FR 1531311 A 19680705 - TOKYO SHIBAURA ELECTRIC CO

Designated contracting state (EPC)

PT

DOCDB simple family (publication)

EP 0511103 A1 19921028; **EP 0511103 B1 19970625**; AT E154787 T1 19970715; CA 2108755 A1 19921025; DE 69220538 D1 19970731; DE 69220538 T2 19980122; DE 69220538 T4 19980702; DK 0511103 T3 19980119; EP 0581847 A1 19940209; ES 2106841 T3 19971116; FR 2675761 A1 19921030; FR 2675761 B1 19950519; GR 3024851 T3 19980130; JP H06506810 A 19940728; US 5496003 A 19960305; WO 9219483 A1 19921112

DOCDB simple family (application)

EP 92401156 A 19920423; AT 92401156 T 19920423; CA 2108755 A 19920423; DE 69220538 A 19920423; DE 69220538 T 19920423; DK 92401156 T 19920423; EP 92910371 A 19920423; ES 92401156 T 19920423; FR 9105045 A 19910424; FR 9200364 W 19920423; GR 970402493 T 19970924; JP 51045092 A 19920423; US 13706693 A 19931215