

Title (en)
LARGE PASSBAND INFORMATION AND/OR INSTRUCTION TRANSMISSION DEVICE BETWEEN A MOBILE UNIT AND A SUPERVISION STATION

Publication
EP 0274055 A3 19880727 (FR)

Application
EP 87117673 A 19871130

Priority
• FR 8617425 A 19861212
• FR 8703734 A 19870318

Abstract (en)
[origin: EP0274055A2] Device for transmitting information and/or instructions and/or a location between a movable unit and a supervision station, comprising a hollow tube (1) parallel to the path of the movable unit, forming a waveguide, an emitting face (2) of which is pierced with a network of apertures, the movable unit having two hyperfrequency emitting and/or receiving antennas (4, 5). The network of apertures on the emitting face of the hollow tube permits the transmission between these apertures and the emitting and/or receiving antenna of two signals distinct from the electric field, one for the transmission of information and/or instructions, and the other for measuring the speed and the position of the movable unit by detection of the presence of this second signal. Other devices relate to the application of such hollow tubes to an automobile toll station or a station for monitoring an enclosure which is dangerous for personnel. <IMAGE>

IPC 1-7
B61L 3/22; G08G 1/09; H01Q 1/32; H04B 5/00

IPC 8 full level
B61L 3/22 (2006.01); **G07B 15/00** (2006.01); **G07B 15/06** (2011.01); **G08G 1/0967** (2006.01); **G08G 1/123** (2006.01)

CPC (source: EP US)
B61L 3/227 (2013.01 - EP US); **G07B 15/063** (2013.01 - EP US); **G08G 1/096725** (2013.01 - EP US); **G08G 1/096741** (2013.01 - EP US); **G08G 1/096775** (2013.01 - EP US); **G08G 1/123** (2013.01 - EP US); **H01Q 1/3225** (2013.01 - EP US); **H01Q 13/20** (2013.01 - EP US)

Citation (search report)
• [Y] GB 2010049 A 19790620 - DAIMLER BENZ AG
• [Y] US 3729740 A 19730424 - NAKAHARA T, et al
• [A] US 3766378 A 19731016 - BABA T, et al
• [A] FR 1549793 A 19681213
• [A] FR 1531311 A 19680705 - TOKYO SHIBAURA ELECTRIC CO
• [A] US 4338587 A 19820706 - CHIAPPETTI ARTHUR B
• [AD] IEEE TRANSACTIONS ON VEHICULAR COMMUNICATIONS, vol. VC-13, no. 1, septembre 1964, pages 1-18, New York, US; T. KAWAKAMI et al.: "Waveguide communication system for centralized railway traffic control"

Cited by
US5136225A; EP0355338A1; FR2634307A1; EP0396918A1; FR2645980A1; EP0526822A1; FR2679891A1; US5297917A; EP0525713A1; FR2680023A1; US5271047A; EP2042402A1; FR2921505A1; WO2011157325A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0274055 A2 19880713; **EP 0274055 A3 19880727**; **EP 0274055 B1 19930310**; CA 1288135 C 19910827; DE 3784678 D1 19930415; DE 3784678 T2 19930617; ES 2039412 T3 19931001; US 4932617 A 19900612

DOCDB simple family (application)
EP 87117673 A 19871130; CA 553484 A 19871203; DE 3784678 T 19871130; ES 87117673 T 19871130; US 13179687 A 19871211