

Title (en)  
TELECOMMUNICATIONS SYSTEM AND METHOD FOR A RAILWAY INFRASTRUCTURE

Title (de)  
TELEKOMMUNIKATIONSSYSTEM UND -VERFAHREN DER EISENBAHNINFRASTRUKTUR

Title (fr)  
PROCEDE ET SYSTEM DE TELECOMMUNICATION DANS UN RESEAU FERROVIAIRE

Publication  
**EP 3831690 A1 20210609 (EN)**

Application  
**EP 20210885 A 20201201**

Priority  
IT 201900022629 A 20191202

Abstract (en)  
It is disclosed a telecommunication system for a railway infrastructure. The system comprises a mobile apparatus suitable for being installed on board a train of the railway infrastructure and a plurality of fixed apparatuses suitable for being installed along a railway line along which the train moves. The mobile apparatus comprises a radio transceiver module and an optical receiver module. Each fixed apparatus comprises a radio transceiver module and an optical transmitter module. The radio transceiver module of the mobile apparatus and the radio transceiver module of the fixed apparatus are configured to set up a radio link between them, and the optical transmitter module of the fixed apparatus is configured to transmit data to the optical receiver module of the mobile apparatus on a light link.

IPC 8 full level  
**B61L 15/00** (2006.01); **B61L 3/06** (2006.01); **B61L 3/12** (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP)  
**B61L 3/065** (2013.01); **B61L 3/125** (2013.01); **B61L 15/0027** (2013.01); **B61L 27/70** (2022.01)

Citation (applicant)  

- EP 3199421 A1 20170802 - COMESVIL S P A [IT]
- P. J. WINZERD. T. NEILSON: "From scaling disparities to integrated parallelism: a decathlon for a decade", JOURNAL OF LIGHTWAVE TECHNOLOGY, vol. 35, no. 5, 1 March 2017 (2017-03-01), XP011645637, DOI: 10.1109/JLT.2017.2662082

Citation (search report)  

- [XYI] US 2018127005 A1 20180510 - YANG GUOQIANG [CN]
- [A] DE 102009052675 A1 20110519 - DEUTSCHE TELEKOM AG [DE]
- [Y] EP 3199421 A1 20170802 - COMESVIL S P A [IT]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3831690 A1 20210609**; IT 201900022629 A1 20210602

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