

Title (en)

EQUIPMENT FOR CONTROLLING A TRAIN FIRE IN A LONG RAILWAY TUNNEL AND METHOD FOR IMPLEMENTING SAME

Title (de)

AUSRÜSTUNG ZUR BEKÄMPFUNG EINES ZUGBRANDES IN EINEM LANGEN EISENBAHTUNNEL UND EINSATZVERFAHREN DAFÜR

Title (fr)

INSTALLATION DE LUTTE CONTRE UN INCENDIE DE TRAIN DANS UN TUNNEL FERROVIAIRE DE GRANDE LONGUEUR ET PROCÉDÉ DE MISE EN OEUVRE

Publication

EP 2442874 B1 20180523 (FR)

Application

EP 10728831 A 20100527

Priority

- FR 2010051023 W 20100527
- FR 0954079 A 20090617
- FR 0955725 A 20090821

Abstract (en)

[origin: WO2010146267A1] The invention relates to equipment including fixed fire detectors (10) along the track (100) and fixed extinguishing stations (20) installed in the tunnel. Each station is provided with fire detectors (23) for locating the source, an automatic configuration system for targeting the area to be sprayed, individually controlled spraying devices (22), and a device for remotely or locally activating the spray. The station is preceded by a train stopping area (ZA) in which the train (TRO) starts a stopping sequence and slows down from the safety speed thereof to the zero speed thereof. A control center (30) manages the operation of the equipment and in particular orders a reduction of the train (TRO) running speed when the detectors (10) have detected a fire (flames, smoke, CO). The reduced speed (safety speed (Vs)) enables the train (TRO) to run as quickly as possible while mitigating the progression of the fire.

IPC 8 full level

A62C 3/07 (2006.01)

CPC (source: EP US)

A62C 3/0221 (2013.01 - EP US); **A62C 3/07** (2013.01 - EP US); **B61L 15/0062** (2024.01 - EP US); **B61L 25/025** (2013.01 - EP US); **B61L 27/53** (2022.01 - EP US)

Citation (examination)

JP 2004074858 A 20040311 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

DE102010011763B4

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 SE SI SK SM TR

DOCDB simple family (publication)

FR 2946889 A3 20101224; CN 102573997 A 20120711; CN 102573997 B 20141217; EP 2442874 A1 20120425; EP 2442874 B1 20180523; ES 2681473 T3 20180913; FR 2946890 A3 20101224; FR 2946890 B3 20110506; JP 2012529948 A 20121129; JP 5315459 B2 20131016; US 2012193110 A1 20120802; US 9345915 B2 20160524; WO 2010146267 A1 20101223

DOCDB simple family (application)

FR 0954079 A 20090617; CN 201080027425 A 20100527; EP 10728831 A 20100527; ES 10728831 T 20100527; FR 0955725 A 20090821; FR 2010051023 W 20100527; JP 2012515538 A 20100527; US 201013378558 A 20100527