

Title (en)

Method for renovating and/or expanding navigable tunnel tubes

Title (de)

Verfahren zur Sanierung und/oder Erweiterung von befahrbaren Tunnelröhren

Title (fr)

Procédé d'assainissement et/ou d'élargissement de galeries sur lesquelles on peut rouler

Publication

EP 2218871 B1 20170712 (DE)

Application

EP 10001129 A 20100204

Priority

DE 102009008596 A 20090212

Abstract (en)

[origin: EP2218871A2] The method involves cleaning, drilling out, reinforcing a tunnel wall during shutdown or less traffic time. The drilled out section of the tunnel wall is plastered with mortar such that a track bed in navigable tunnel sections is cleaned. A required work machine is parked in front of a place, moved from the place after completion or interruption of the works and parked in a side track. Dusty air and/or air heavily loaded with exhaust gas is sucked off from originating points (11, 12) during renovating process and is cleaned by a filter system (6) co-operating with a processing machine (4). An independent claim is also included for a system for renovating and/or expanding navigable tunnel sections.

IPC 8 full level

E21F 5/20 (2006.01); **E21D 9/00** (2006.01)

CPC (source: EP)

E21D 9/00 (2013.01); **E21F 5/20** (2013.01)

Citation (examination)

- DE 2710406 A1 19780914 - HOELTER HEINZ
- JP H11182200 A 19990706 - SHIMIZU CONSTRUCTION CO LTD

Cited by

CN110454174A; CN111911164A; US2019186262A1; JP2024027274A; WO2018041348A1

Designated contracting state (EPC)

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)

EP 2218871 A2 20100818; EP 2218871 A3 20120502; EP 2218871 B1 20170712; DE 102009008596 A1 20100819

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