

Title (en)

Tunnel-structure to suppress propagation of pressure disturbances generated by travelling of high-speed trains

Title (de)

Zur Unterdrückung von durch die Fahrt von Hochgeschwindigkeitszügen verursachten Druckstörungen geeignete Tunnelstruktur

Title (fr)

Structure de tunnel pour la suppression de perturbations de pression produites par le trajet de trains à grande vitesse

Publication

EP 0515912 B1 19961009 (EN)

Application

EP 92108105 A 19920513

Priority

JP 12754391 A 19910530

Abstract (en)

[origin: EP0515912A2] A tunnel-structure for travelling of high-speed trains is claimed wherein propagation of pressure disturbances generated by the train can be suppressed and especially emergence of acoustic shock waves can be avoided. This structure consists of the main tunnel for the trains and of many cavities arranged in the outside of the tunnel and in array axially with each cavity connected to the tunnel through a connecting passage(s).

IPC 1-7

E21D 9/14

IPC 8 full level

E01F 8/00 (2006.01); **E21D 9/14** (2006.01)

CPC (source: EP)

E21D 9/14 (2013.01)

Cited by

CN101929339A; CN105003282A; US9291055B2; JP2017166186A; JP2015183383A; US9655744B1; US10350084B1; US11399954B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0515912 A2 19921202; EP 0515912 A3 19930428; EP 0515912 B1 19961009; DE 69214351 D1 19961114; DE 69214351 T2 19970313; JP 3126165 B2 20010122; JP H04353193 A 19921208

DOCDB simple family (application)

EP 92108105 A 19920513; DE 69214351 T 19920513; JP 12754391 A 19910530