

Title (en)

CONSTRUCTION ELEMENT FOR CREATING A TUNNEL, TUNNEL COMPRISING SUCH AN ELEMENT AND METHODS FOR CONSTRUCTING SUCH AN ELEMENT AND SUCH A TUNNEL

Title (de)

KONSTRUKTIONSELEMENT ZUR ERZEUGUNG EINES TUNNELS, TUNNEL MIT SOLCH EINEM ELEMENT UND VERFAHREN ZUR KONSTRUKTION SOLCH EINES ELEMENTS UND SOLCH EINES TUNNELS

Title (fr)

ÉLÉMENT DE CONSTRUCTION POUR LA RÉALISATION D'UN TUNNEL, TUNNEL COMPRENANT UN TEL ÉLÉMENT ET PROCÉDÉS DE FABRICATION D'UN TEL ÉLÉMENT ET D'UN TEL TUNNEL

Publication

EP 3146155 B1 20230308 (FR)

Application

EP 15732774 A 20150520

Priority

- FR 1401156 A 20140521
- FR 2015051318 W 20150520

Abstract (en)

[origin: WO2015177463A2] Construction element for creating a tunnel, comprising a first, incompressible layer (6) of concrete and a second, compressible layer (7) fixed to the first layer (6) so as to form a one-piece prefabricated construction element designed to be incorporated into a tunnel section during the creation of the tunnel, the second layer (7) having a plurality of devices (8), each having a solid body (9) incorporating an empty space (10).

IPC 8 full level

E21D 11/05 (2006.01); **E21D 11/08** (2006.01)

CPC (source: CN EP RU US)

E21D 11/05 (2013.01 - CN EP RU US); **E21D 11/08** (2013.01 - CN EP US)

Citation (examination)

- EP 2568113 A1 20130313 - SIKA TECHNOLOGY AG [CH]
- DE 8716317 U1 19890406

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

DOCDB simple family (publication)

WO 2015177463 A2 20151126; WO 2015177463 A3 20160204; AU 2015263203 A1 20161215; AU 2019283806 A1 20200116; AU 2019283806 B2 20210401; CA 2949647 A1 20151126; CA 2949647 C 20230124; CN 106460510 A 20170222; CN 106460510 B 20200915; EP 3146155 A2 20170329; EP 3146155 B1 20230308; FR 3021346 A1 20151127; FR 3021346 B1 20160729; JP 2017516937 A 20170622; JP 2020056304 A 20200409; JP 2022174014 A 20221122; JP 7341285 B2 20230908; RU 2016149893 A 20180626; RU 2016149893 A3 20180626; RU 2689964 C2 20190529; US 10774640 B2 20200915; US 2017167261 A1 20170615

DOCDB simple family (application)

FR 2015051318 W 20150520; AU 2015263203 A 20150520; AU 2019283806 A 20191217; CA 2949647 A 20150520; CN 201580026159 A 20150520; EP 15732774 A 20150520; FR 1401156 A 20140521; JP 2017513357 A 20150520; JP 2019230834 A 20191220; JP 2022076756 A 20220506; RU 2016149893 A 20150520; US 201515312947 A 20150520