

Title (en)

FIRE PROTECTION STRUCTURE APPLIED TO SEGMENT JOINT OF IMMERSSED TUNNEL AND HAVING LINEAR MOVING MECHANISM

Title (de)

FEUERSCHUTZSTRUKTUR, DIE AN EINER SEGMENTVERBINDUNG EINES EINGETAUCHTEN TUNNELS ANGEBRACHT IST UND EINEN LINEAREN BEWEGUNGSMECHANISMUS AUFWEIST

Title (fr)

STRUCTURE DE PROTECTION CONTRE L'INCENDIE APPLIQUÉE À UN JOINT DE SEGMENT D'UN TUNNEL IMMERGÉ ET COMPORTANT UN MÉCANISME DE DÉPLACEMENT LINÉAIRE

Publication

EP 3702535 A4 20210728 (EN)

Application

EP 18900311 A 20180525

Priority

- CN 201810020770 A 20180110
- CN 2018088450 W 20180525

Abstract (en)

[origin: EP3702535A1] The present disclosure provides a fireproof structure of a tube joint of an immersed tube tunnel with a linear moving mechanism including a waterproof tape assembly (10) and a fireproof assembly (30) both connected between adjacent first and second tubes (40, 50). The fireproof assembly (30) includes a protection plate assembly (31) including a first fireproof plate assembly (311), a second fireproof plate assembly (313) spaced from the first fireproof plate assembly (311), and a heat insulation piece (312) fixedly connected between the first fireproof plate assembly (311) and the second fireproof plate assembly (313); a movable connection assembly (33), the first fireproof plate assembly (311) and second fireproof plate assembly (313) being movably connected to the second tube (50) through the movable connection assembly (33); and a flexible fireproof belt (35) between the first fireproof plate assembly (311) and the second fireproof plate assembly (313), one end of the flexible fireproof belt (35) being connected with the heat insulation piece (312), and the other end being connected with the second tube (50).

IPC 8 full level

E02D 29/045 (2006.01); **E02D 29/073** (2006.01)

CPC (source: CN EP)

E02D 29/10 (2013.01 - CN EP); **E02D 29/16** (2013.01 - CN EP); **E02D 31/00** (2013.01 - CN); **E02D 31/00** (2013.01 - EP); **E02D 2600/20** (2013.01 - CN EP)

Citation (search report)

- [A] KR 20110137930 A 20111226 - DAEWOO ENG & CONSTR CO LTD [KR]
- [A] CN 107023037 A 20170808 - CHINA COMMUNICATIONS CONSTRUCTION CO LTD, et al
- [A] JP 2003269098 A 20030925 - TAIHEIYO CEMENT CORP
- See references of WO 2019136904A1

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)

EP 3702535 A1 20200902; **EP 3702535 A4 20210728**; **EP 3702535 B1 20220629**; CN 107989071 A 20180504; CN 107989071 B 20190719; WO 2019136904 A1 20190718

DOCDB simple family (application)

EP 18900311 A 20180525; CN 2018088450 W 20180525; CN 201810020770 A 20180110