

Title (en)

A METHOD AND EQUIPMENT FOR ARRANGING TRACK BANKING, ELECTRIC POWER SUPPLIES AND TRACT COVERING

Title (de)

VERFAHREN UND AUSRÜSTUNG ZUR QUERNEIGUNG VON GLEISEN , STROMVERSORGUNGEN UND GLEISABDECKUNG

Title (fr)

PROCÉDÉ ET ÉQUIPEMENT POUR ASSURER L'INCLINAISON DE RAILS, L'ALIMENTATION EN PUISSANCE ÉLECTRIQUE ET LA COUVERTURE DES RAILS

Publication

EP 2430239 A1 20120321 (EN)

Application

EP 09840682 A 20091124

Priority

- FI 2009000098 W 20091124
- FI 20090069 A 20090224

Abstract (en)

[origin: WO2010097498A1] The subject of this invention is a method and equipment for arranging banking of light metro train tracks and/or their electric power supplies and/or any tunnelling that covers the track. In a highly developed urban area such a track may rest on concrete foundations and supporting perpendicular pillars, for example made of steel, ideally 4.5 to 5 metres above street level, and may be constructed from building elements in which the bends may be prefabricated, for example by already prestressing and binding to the supporting structures at the production plant where the elements are made. These elements may then be assembled rapidly, for example, using a mobile crane, and will consist of straight sections interconnected with track saddles (7) and curved sections. Banking will be arranged for curved track sections using concentric U-shaped construction elements (1a, 3a). This brings about track banking formed from the rails (2a, 2b), for example of 5 - 20 degrees corresponding to carriage speeds of 70 - 150 km/h, whereby the rails (2a, 2b) are set at mutually differing heights on the horizontal X-axis corresponding to carriage speed, centrifugal force and the sharpness of the bend so that there is no need to reduce the carriage speed at bends. Diagonal sections are made in the track extensions. The track is partly covered with a protective roof incorporating solar panels that generate electricity for the trains and for the national grid. The track of a train that moves on an air cushion or is lifted by a magnetic field, for example, may also be banked, and trains of this kind may be electrified in the foregoing manner.

IPC 8 full level

E01B 25/00 (2006.01); **A63G 7/00** (2006.01); **A63G 21/04** (2006.01); **E01B 25/30** (2006.01)

CPC (source: EP)

A63G 7/00 (2013.01); **E01B 25/00** (2013.01); **E01B 25/30** (2013.01)

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)

WO 2010097498 A1 20100902; **WO 2010097498 A8 20111013**; EP 2430239 A1 20120321; EP 2430239 A4 20140514

DOCDB simple family (application)

FI 2009000098 W 20091124; EP 09840682 A 20091124