

Title (en)
STRING TRANSPORT SYSTEM

Title (de)
SAITENBAHNSYSTEM

Title (fr)
SYSTEME DE TRANSPORT DE TYPE CÂBLE

Publication
EP 3907117 A1 20211110 (EN)

Application
EP 19907520 A 20191230

Priority
• EA 201900138 A 20190104
• BY 2019000018 W 20191230

Abstract (en)
The invention relates to the area of transport communications, in particular, to the integrated aboveground transport systems of a string type, with transport infrastructure providing speed cargo and passenger traffic. The string transport system by Yunitski represents end (2) and intermediate (3) supports mounted on foundation (1), and at least one rail cord (4) fastened in spans (L) between them, and at least one wheeled vehicle (7) guided thereon. Hereby, load-bearing elements (5) of load-bearing member (6) of rail cord (4) are tensioned and anchored, according to design option, both on end (2) and intermediate (3) anchor supports, which allows to redistribute, between end (2) and intermediate (3) anchor supports, the effect of axial forces which create prestressing of load-bearing elements (5) of rail cord (4). Partial anchoring of load-bearing elements (5) on intermediate (3) anchor supports allows to evenly distribute combined tension force of load-bearing member (6), transferred to intermediate (3) anchor supports, and thereby ensure their load relief, in order to increase stability of end (2) supports, reliability of rail-string transport overpass and achieve "velvet-smooth track" effect, with decrease in material capacity and cost of both supports and load-bearing member (6), alongside with load-bearing elements (5) and rail cord (4) as a whole.

IPC 8 full level
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