

Title (en)
PREFABRICATED TRACK STRUCTURE FOR BUILT-IN PUMP HOUSE SECTION IN RAIL TRANSPORTATION AND CONSTRUCTION METHOD

Title (de)
VORGEFERTIGTE SCHIENENSTRUKTUR FÜR EINEN EINGEBAUTEN PUMPRAUMABSCHNITT EINES SCHIENENVERKEHRS UND KONSTRUKTIONSVVERFAHREN DAFÜR

Title (fr)
STRUCTURE DE RAIL PRÉFABRIQUÉE POUR SECTION DE LOGEMENT DE POMPE INTÉGRÉE DANS LE TRANSPORT FERROVIAIRE ET PROCÉDÉ DE CONSTRUCTION

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Application
EP 23800304 A 20230522

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Abstract (en)
Provided are a prefabricated track structure for built-in pump room section of rail transit and construction method therefor. The track structure includes steel rail, fasteners, prefabricated I-shaped track plate and filling adjustment layer from top to bottom. The steel rail is fixed on the upper surface of the prefabricated I-shaped track plate through the fasteners on both sides. A filling adjustment layer is provided below the prefabricated I-shaped track plate. The prefabricated I-shaped track plate includes a rail bearing platform and a prefabricated plate, both of which are formed in one piece. The plane of the prefabricated I-shaped track plate is an I-shaped structure, the middle of which is connected by a crossbeam. The invention is used in the rail transit field to replace the traditional cast-in-place built-in pump room roadbed, and has advantages of simple construction procedure, fast construction speed, high construction precision, low labor intensity, good aesthetics, good durability and the like. It is consistent with expectations of environmental protection, high efficiency and disease reduction of the current rail transit, and has great social benefits.

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