

Title (en)
Device for the compaction of railway ballast

Title (de)
Vorrichtung zum Verdichten der Schotterbettung eines Gleises

Title (fr)
Dispositif de compression du lit de ballast d'une voie ferrée

Publication
EP 2902546 B1 20171025 (DE)

Application
EP 14153245 A 20140130

Priority
EP 14153245 A 20140130

Abstract (en)
[origin: US2015211192A1] An apparatus is provided for compacting the ballast bed of a track, comprising a machine frame which is movable on the track with a stabiliser unit which runs on rollers on the track and is equipped with a vibration drive for producing a vibration in a plane parallel to the track. The stabiliser unit is preferably equipped with tension rollers engaging around the rail head. The stabiliser unit is linked in a height-adjustable manner to the machine frame with an adjusting drive and can be moved against the track under load. In order to provide advantageous constructional conditions it is provided that the vibration drive comprises at least one cylinder vibrator which is formed by a hydraulic cylinder and is triggered via a proportional or servo valve.

IPC 8 full level
B06B 1/18 (2006.01); **E01B 27/20** (2006.01)

CPC (source: CN EP RU US)
B06B 1/183 (2013.01 - EP US); **E01B 27/20** (2013.01 - CN EP RU US); **E01B 2203/127** (2013.01 - CN); **E01B 2203/141** (2013.01 - CN)

Citation (opposition)
Opponent : Plasser & Theurer von Bahnbaumaschinen, Gessellschaft m.b.H.
• SU 1761845 A1 19920915 - VNI TEPLOVOZNYJ INST [SU]
• DE 4102869 A1 19910808 - PLASSER BAHNBAUMASCH FRANZ [AT]
• EP 0688902 A1 19951227 - PLASSER BAHNBAUMASCH FRANZ [AT]
• AT 336663 B 19770525 - PLASSER BAHNBAUMASCH FRANZ [AT]

Cited by
CN107034747A; AT523228A1; AT523228B1; WO2021115722A1; EP3556478A1; DE102018205821A1; EP4134485A1

Designated contracting state (EPC)
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DOCDB simple family (application)
EP 14153245 A 20140130; CN 201410802961 A 20141219; NO 14153245 A 20140130; PL 14153245 T 20140130; RU 2014153651 A 20141226; US 201514597547 A 20150115