Title (en)

RAILWAY TRACK TAMPING DEVICE

Publication

EP 0050889 B1 19840822 (FR)

Application

EP 81201120 A 19811008

Priority

CH 803780 A 19801029

Abstract (en)

[origin: US4440089A] In a railway track ballast tamping device, a tamping unit is carried for vertical adjustment by a support mounted on the frame structure of a vehicle and comprises at least one pair of jointly-operating tamping tools crossing each other. The arm of these tools are adapted to pivot on opposite eccentric cranks formed on an eccentric shaft rotatably mounted in a bearing rigidly fastened to the support; the upper ends of the arms, opposite the pick-forming thereof, are each pivotally connected to a hydraulic cylinder inclined not in excess of 30 DEG to the vertical; the planes passing through the axis of rotation on the eccentric shaft and the center of the opposite eccentric cranks thereof form between them an angle of 40 DEG to 80 DEG in order to warrant a symmetrical, synchronous oscillatory motion of the packers carried by the lower ends of the picks. To prevent the transmission of detrimental vibration to the support during the rotation of the eccentric shaft, there are provided, in addition to out-of-balance weight carried by a flywheel rigid with the eccentric shaft, balance weights fastened to the hydraulic cylinders and disposed above the level of the pivotal connections between these cylinders and the support. Furthermore, the tamping tools of a pair disposed on the same side of a tie have their upper ends rigidly interconnected.

IPC 1-7

E01B 27/16

IPC 8 full level

E01B 27/16 (2006.01)

CPC (source: EP US)

E01B 27/16 (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

EP 0050889 A1 19820505; **EP 0050889 B1 19840822**; AT E9107 T1 19840915; CH 650819 A5 19850815; DE 3165697 D1 19840927; JP H0130962 B2 19890622; JP S57133903 A 19820818; US 4440089 A 19840403; ZA 817248 B 19820929

DOCDB simple family (application)

EP 81201120 A 19811008; AT 81201120 T 19811008; CH 803780 A 19801029; DE 3165697 T 19811008; JP 17154581 A 19811028; US 31124681 A 19811014; ZA 817248 A 19811020