

Title (en)
Method of tamping railway tracks

Title (de)
Gleisstopfmethode

Title (fr)
Procédé de bourrage de voies ferrées

Publication
EP 1418273 B1 20051123 (FR)

Application
EP 03292675 A 20031027

Priority
FR 0213936 A 20021107

Abstract (en)
[origin: EP1418273A1] The ballast vehicle is driven along the working railway line, and its outlets are computer controlled to deliver ballast to the track. A series of measuring gauges (7.1 - 7.n) which are capable of tracking a target (P1, P2) situated on the ballast vehicle, and continuously calculating position and transmitting this information to a processor mounted on the ballast vehicle. This is linked to the computer system. The procedure for carrying out works on railway lines includes filling the line with ballast. The ballast vehicle is driven along the line requiring work, and its outlets are controlled by a computerized system which compares a theoretical model of the line with the real topographical data derived from the line under maintenance. This includes the use of a series of measuring gauges (7.1 - 7.n) which are capable of tracking a target (P1, P2) situated on the ballast vehicle, and continuously calculating the topographical position of the target, and continuously transmitting this information to a processor mounted on the ballast vehicle. This is interfaced with the computer system which controls the output of ballast. The targets (P1, P2) may consist of front and rear prisms, co-operating successively with at least three automatic theodolite stations situated along the length of the track to measure the advance of the vehicle.

IPC 1-7
E01B 27/12; **E01B 35/08**; **G01C 15/00**

IPC 8 full level
E01B 27/12 (2006.01); **E01B 35/08** (2006.01)

CPC (source: EP)
E01B 27/12 (2013.01); **E01B 35/08** (2013.01); **E01B 2203/16** (2013.01)

Cited by
CN109754630A; CN104215258A; CN117604840A; EA039907B1; CN107908200A; FR3066770A1; CN110799705A; US8615110B2; US7168174B2; WO2006098771A1; US8781655B2; US9051695B2; US11566382B2; WO2018219699A1; US11492764B2; WO2018206214A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1418273 A1 20040512; **EP 1418273 B1 20051123**; AT E310850 T1 20051215; DE 60302417 D1 20051229; DE 60302417 T2 20060810; ES 2253651 T3 20060601; FR 2846979 A1 20040514; FR 2846979 B1 20050128

DOCDB simple family (application)
EP 03292675 A 20031027; AT 03292675 T 20031027; DE 60302417 T 20031027; ES 03292675 T 20031027; FR 0213936 A 20021107