

Title (en)

METHOD FOR AUTOMATIC AUTONOMOUS CONTROL OF A TAMPING MACHINE

Title (de)

VERFAHREN ZUR AUTOMATISCHEN AUTONOMEN STEUERUNG EINER STOPFMASCHINE

Title (fr)

PROCÉDÉ DE COMMANDE AUTONOME AUTOMATIQUE D'UNE MACHINE DE BOURRAGE DE VOIES

Publication

EP 4256133 A2 20231011 (DE)

Application

EP 21819324 A 20211130

Priority

- AT 502382020 U 20201202
- AT 2021060454 W 20211130

Abstract (en)

[origin: WO2022115891A2] The invention relates to a method for automatic autonomous control of a tamping machine (C) for compacting the ballast bed of a track in points (A, B), comprising a device for determining the position of the track laying machine on the track, and comprising position detection of the actuators of the working units (La, Li, Ra, Ri, 16, 18, 19, 20, 22, 23) of the tamping machine (C). In order to automate the method: - point data (ai,j, β , WP, t, L, n) of the point to be machined is first read into a control computer (27) of the tamping machine (C); - the control computer (27) subsequently generates exact positioning instruction data (Pi) for the working units (La, Li, Ra, Ri, 16, 18, 19, 20, 22, 23) at each railway sleeper (ai,j) to be tamped in the point region (1-51); and - the tamping machine (C), depending on its position in the point (A, B) and on the generated positioning instruction data (Pi), actuates these positions with the working units (La, Li, Ra, Ri, 16, 18, 19, 20, 22, 23) associated with each position and carries out the tamping process at the place of the actuated position fully automatically and autonomously.

IPC 8 full level

E01B 27/16 (2006.01)

CPC (source: AT EP)

E01B 27/16 (2013.01 - AT EP); **E01B 27/17** (2013.01 - AT); **E01B 2203/125** (2013.01 - AT EP)

Citation (search report)

See references of WO 2022115891A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022115891 A2 20220609; WO 2022115891 A3 20220811; AT 17436 U1 20220415; EP 4256133 A2 20231011

DOCDB simple family (application)

AT 2021060454 W 20211130; AT 502382020 U 20201202; EP 21819324 A 20211130