

Title (en)
TRACK-LAYING MACHINE WITH TRACK-LAYOUT-MEASURING SYSTEM

Title (de)
GLEISBAUMASCHINE MIT GLEISLAGEMESSSYSTEM

Title (fr)
ENGIN DE POSE DE VOIE COMPRENANT UN SYSTÈME DE MESURE D'ASSIETTE DE VOIE

Publication
EP 3535456 A1 20190911 (DE)

Application
EP 17780308 A 20171005

Priority
• AT 5052016 A 20161104
• EP 2017001174 W 20171005

Abstract (en)
[origin: WO2018082796A1] The invention relates to a track-laying machine (1) for carrying out track layout corrections, comprising a machine frame (3) that can be moved on rails (4) of a track (5) by means of rail-mounted travel units (2), and a track-layout measuring system (11) comprising two outer measuring devices (12, 13) and a middle measuring device (14), in relation to a machine longitudinal direction (6), with a common reference base (15), the position of the measuring devices (12, 13, 14) being determined in relation to the rails (4). Two measuring chords (16, 17) facing each other extend between the outer measuring devices (12, 13) as a reference base (15), the middle measuring device (14) comprising a sensor (25) for detecting position data of the two measuring chords (16, 17), and the position data being supplied to an evaluation device (18) in order to determine a longitudinal height for each rail (4) and a sagitta. In this way, two measuring chords (16, 17) are sufficient for the detection of all of the track layout parameters.

IPC 8 full level
E01B 35/00 (2006.01); **E01B 27/16** (2006.01)

CPC (source: AT EP US)
E01B 27/17 (2013.01 - AT US); **E01B 29/04** (2013.01 - AT); **E01B 35/00** (2013.01 - AT EP US); **E01B 35/08** (2013.01 - AT US); **E01B 35/10** (2013.01 - AT US); **E01B 35/12** (2013.01 - US); **E01B 27/16** (2013.01 - EP US); **E01B 2203/10** (2013.01 - AT)

Citation (search report)
See references of WO 2018082796A1

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

DOCDB simple family (publication)
WO 2018082796 A1 20180511; AT 519316 A1 20180515; AT 519316 B1 20190515; CN 109844224 A 20190604; CN 109844224 B 20210319; EA 039076 B1 20211130; EA 201900084 A1 20190930; EP 3535456 A1 20190911; EP 3535456 B1 20201209; ES 2846282 T3 20210728; US 11802380 B2 20231031; US 2019257038 A1 20190822

DOCDB simple family (application)
EP 2017001174 W 20171005; AT 5052016 A 20161104; CN 201780064484 A 20171005; EA 201900084 A 20171005; EP 17780308 A 20171005; ES 17780308 T 20171005; US 201716346555 A 20171005