

Title (en)  
MACHINE AND METHOD USING A TAMPING ASSEMBLY

Title (de)  
MASCHINE UND VERFAHREN MIT EINEM STOPFAGGREGAT

Title (fr)  
MACHINE ET PROCÉDÉ UTILISANT UN ENSEMBLE DE BOURRAGE

Publication  
**EP 4176131 A1 20230510 (DE)**

Application  
**EP 21731088 A 20210602**

Priority

- AT 505662020 A 20200703
- EP 2021064804 W 20210602

Abstract (en)  
[origin: WO2022002520A1] The invention relates to a machine (1) with a tamping assembly (7) for simultaneously tamping down multiple sleepers (4), which are positioned one directly behind the other, of a track (3) using multiple tamping units (14) arranged one behind the other with respect to a machine longitudinal direction (17). Each tamping unit (14) comprises a height-adjustable tool support (15) on which opposing tamping tools (18) are mounted that are coupled to a vibration drive (19) arranged on the tool support (15) via add-on cylinders (20). Each vibration drive (19) comprises an eccentric shaft (25) with a first eccentric disc (27) and a second eccentric disc (28), the axes of symmetry (29, 30) of which together with a common rotational axis (25) define two eccentric planes (31, 32) that form a relative angle ( $\delta$ ) relative to each other, wherein a first add-on cylinder (20) is mounted on the first eccentric disc (27), an opposing second add-on cylinder (20) is mounted on the second eccentric disc (30), and the cylinder axes (33) of the opposing add-on cylinders (20) form a positional angle ( $\beta$ ) which approximates the relative angle ( $\delta$ ) of the eccentric planes (31, 32).

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

CPC (source: AT EP US)  
**E01B 27/16** (2013.01 - AT EP US); **E01B 27/17** (2013.01 - AT); **E01B 27/17** (2013.01 - EP); **E01B 2203/12** (2013.01 - AT US); **E01B 2203/122** (2013.01 - AT)

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 2022002520 A1 20220106**; AT 523825 A4 20211215; AT 523825 B1 20211215; AU 2021299878 A1 20230119; BR 112023000090 A2 20230131; CA 3186152 A1 20220106; CN 115885073 A 20230331; EP 4176131 A1 20230510; EP 4176131 B1 20240313; EP 4176131 C0 20240313; JP 2023531810 A 20230725; US 2023257939 A1 20230817

DOCDB simple family (application)  
**EP 2021064804 W 20210602**; AT 505662020 A 20200703; AU 2021299878 A 20210602; BR 112023000090 A 20210602; CA 3186152 A 20210602; CN 202180044336 A 20210602; EP 21731088 A 20210602; JP 2022581491 A 20210602; US 202118004094 A 20210602