

Title (en)

MACHINE AND METHOD FOR STABILIZING A TRACK

Title (de)

MASCHINE UND VERFAHREN ZUM STABILISIEREN EINES GLEISES

Title (fr)

MACHINE ET PROCÉDÉ DE STABILISATION DE VOIE

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Application

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Abstract (en)

[origin: WO2021052684A1] The invention relates to a machine (1) for stabilizing a track (3), having a machine frame (6) supported on rail bogies (4) and at least one height-adjustable stabilization assembly (7), which is capable of rolling via assembly rollers (10) on rails (5) of the track (3) and which comprises an oscillation exciter (17) having rotating unbalanced masses (19, 20) for generating an impact force acting dynamically in a track plane perpendicular to a longitudinal direction of the track (8) and an elevation drive (9) for generating a load acting on the track (3). According to the invention, a main unbalanced mass (19) and a secondary unbalanced mass (20) cause different centrifugal forces at the same rotational speed and as a function of the direction of rotation, wherein the two unbalanced masses (19, 20) are coupled in such a manner that, during rotation in one direction of rotation, the unbalanced masses have a first phase shift relative to each other and that, during rotation in the opposite direction of rotation, the unbalanced masses have a second phase shift relative to each other, which deviates from the first phase shift. Depending on the arrangement of the unbalanced masses, a modified phase shift changes both the direction and the strength of the impact force.

IPC 8 full level

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