

Title (en)

MEASUREMENT SYSTEM AND METHOD FOR MEASURING THE ELASTICITY OF AN OVERHEAD LINE OF A TRACK

Title (de)

MESSSYSTEM UND VERFAHREN ZUR ELASTIZITÄTSMESSUNG EINER OBERLEITUNG EINES GLEISES

Title (fr)

SYSTÈME DE MESURE ET PROCÉDÉ DE MESURE DE L'ÉLASTICITÉ D'UNE LIGNE AÉRIENNE D'UNE VOIE

Publication

**EP 4263277 A1 20231025 (DE)**

Application

**EP 21836110 A 20211210**

Priority

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- EP 2021085204 W 20211210

Abstract (en)

[origin: WO2022128792A1] The invention relates to a measurement system for measuring the elasticity of an overhead line (5) of a track (4), having a contactless sensor (8) for sensing the position of a measurement point (13) of the overhead line (5) and having an evaluation device (11) for calculating the elasticity. There is arranged a mechanical excitation device (7) by means of which the overhead line (5) can be made to vibrate by active excitation, wherein the sensor (8) is configured to capture a vibration profile, and wherein the evaluation device (11) is configured to derive mechanical properties of the overhead line (5) from the vibration profile. The mechanical properties, such as the elasticity, of the overhead line (5) are derived in the evaluation device (11) from the characteristics of the corresponding vibration curves (12).

IPC 8 full level

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CPC (source: AT EP US)

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