

Title (en)

METHOD FOR CONTROLLING A GROUND COMPACTION MACHINE AND GROUND COMPACTION MACHINE

Title (de)

VERFAHREN ZUR STEUERUNG EINER BODENVERDICHTUNGSMASCHINE UND BODENVERDICHTUNGSMASCHINE

Title (fr)

PROCÉDÉ DE COMMANDE D'UNE MACHINE DE COMPACTAGE DE SOL ET MACHINE DE COMPACTAGE DE SOL

Publication

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Application

**EP 19786719 A 20190930**

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Abstract (en)

[origin: WO2020069769A1] The invention relates to a method (22) for controlling a ground compaction machine (1), in particular for preventing compaction flaws, comprising the steps of: exciting (23) a vibration at a vibration frequency (f) in at least one compaction wheel (5) by means of a excitation means (13), advancing (24) the ground compaction machine (1) over ground (8) to be compacted at a movement speed (v), and modifying (28) the movement speed (v) and/or the vibration frequency (f) by determining and monitoring (25) the number of vibration impacts for each route covered (IPF) from the travel speed (v) and the vibration frequency (f), comparing (26) the determined number of vibration impacts for each route covered (IPF) with predefined limit values (IPFmax, IPFmin, IPFend), and reducing (27) the vertical vibration amplitude (A) of the compaction wheel (5) when at least one of the limit values (IPFmax, IPFmin, IPFend) is exceeded or not met. The invention further relates to a ground compaction machine (1) having a control unit (15) which is designed for carrying out the method (22) and/or carries out said method.

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

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