

Title (en)  
METHOD FOR OPERATING AN ELECTRIFIED DRIVE TRAIN FOR A WORKING MACHINE, ELECTRIFIED DRIVE TRAIN FOR A WORKING MACHINE AND WORKING MACHINE

Title (de)  
VERFAHREN ZUM BETREIBEN EINES ELEKTRIFIZIERTEN ANTRIEBSSTRANGS FÜR EINE ARBEITSMASCHINE, ELEKTRIFIZIERTER ANTRIEBSSTRANG FÜR EINE ARBEITSMASCHINE UND ARBEITSMASCHINE

Title (fr)  
PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UNE CHAÎNE CINÉMATIQUE ÉLECTRIFIÉE POUR UNE MACHINE DE TRAVAIL, CHAÎNE CINÉMATIQUE ÉLECTRIFIÉE POUR UNE MACHINE DE TRAVAIL, ET MACHINE DE TRAVAIL

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Abstract (en)  
[origin: WO2023274836A1] The invention relates to a method for operating an electrified drive train for a working machine, wherein an electric motor of the drive train is drive-coupled to at least one wheel of the working machine, wherein the working machine, when travelling downhill, experiences a downhill force which causes (100) an acceleration torque on the working machine, wherein a generator torque of the electric motor counters the acceleration torque during generator operation, wherein a maximum generator torque is dependent on an actual motor rotation speed of the electric motor and wherein, when the working machine accelerates on account of the downhill force (101), an automatic braking intervention is performed (102). The method according to the invention is distinguished in that, owing to the braking intervention, the actual motor rotation speed is reduced until the maximum generator torque at a reduced actual motor rotation speed is at least equal to the acceleration torque (104). The invention also relates to a corresponding electrified drive train for a working machine as well as to a corresponding working machine.

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