

Title (en)

POWERTRAIN FOR A WORK MACHINE, METHOD FOR OPERATING THE POWERTRAIN, AND WORK MACHINE

Title (de)

ANTRIEBSSTRANG FÜR EINE ARBEITSMASCHINE, VERFAHREN ZUM BETREIBEN DES ANTRIEBS-STRANGS UND ARBEITSMASCHINE

Title (fr)

CHAÎNE CINÉMATIQUE CONÇUE POUR UN ENGIN DE TRAVAIL, PROCÉDÉ POUR FAIRE FONCTIONNER CETTE CHAÎNE CINÉMATIQUE ET ENGIN DE TRAVAIL

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Application

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Abstract (en)

[origin: WO2022128668A1] The invention relates to a powertrain (10) for a work machine, comprising at least one electric motor (11, 12), an electric energy store (13), a multi-stage manual transmission (14), a heating circuit (15) and a cooling circuit (16), the at least one electric motor (11, 12) being designed to provide a mechanical input power, the manual transmission (14) being designed to convert the mechanical input power and to provide same as mechanical output power, the energy store (13) being designed to supply electrical power to the at least one electric motor (11, 12) and the heating circuit (15), the heating circuit (15) being designed to provide a heating fluid for heating the energy store (13), and the cooling circuit (16) being designed to provide a cooling fluid for cooling and lubricating the manual transmission (14). The powertrain (10) according to the invention is characterised in that the heating circuit (15) and the cooling circuit (16) are coupled via a heat exchanger (18) and have only one single shared cooling device (19). The invention further relates to a corresponding method and to a work machine.

IPC 8 full level

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