

Title (en)

CONTROL SYSTEM OF AN ARM OF A LOADER VEHICLE (CWL)

Title (de)

STEUERSYSTEM EINES ARMS EINES LADERFAHRZEUGS (CWL)

Title (fr)

SYSTÈME DE COMMANDE D'UN BRAS D'UN VÉHICULE CHARGEUR (CWL)

Publication

EP 4176139 A1 20230510 (EN)

Application

EP 21737672 A 20210701

Priority

- IT 202000015922 A 20200701
- EP 2021068126 W 20210701

Abstract (en)

[origin: WO2022003085A1] Method of controlling an arm (B) of a mechanical shovel (CWL), in which the mechanical shovel is equipped with a hydrostatic transmission (HY) comprising a first hydraulic pump (HP) arranged to power only a hydraulic motor (HM), a second pump (P) arranged to feed vehicle hydraulic actuators (A1, A2,...), including a first actuator (A1) arranged to control at least the lifting of the arm (B), a hydraulic accumulator (ACC) to accumulate energy under form of pressure, the method comprising the following steps: pressurization of the accumulator exclusively by said hydraulic motor, operating as a pump, during a regenerative braking, supplementation of said second pump by means of said accumulator (ACC) exclusively to supply the first actuator during at least the lifting of the arm (B).

IPC 8 full level

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CPC (source: EP)

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