

Title (en)

METHOD AND APPARATUS FOR OPERATING A MACHINE WORK TOOL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETRIEB EINER WERKZEUGMASCHINE

Title (fr)

PROCÉDÉ ET APPAREIL POUR FAIRE FONCTIONNER UN OUTIL DE TRAVAIL DE MACHINE

Publication

EP 4041955 B1 20240403 (EN)

Application

EP 20790144 A 20200928

Priority

- GB 201914474 A 20191007
- US 2020053020 W 20200928

Abstract (en)

[origin: WO2021071687A1] The present disclosure provides a method of operating a machine comprising a work tool and an apparatus mounted thereto. The apparatus comprises a gas spring arrangement comprising a first gas chamber defined by a piston head moveably mounted inside a cylinder and a gas supply apparatus comprising at least one gas storage tank having a fixed volume and containing a gas. The storage tank is fluidly connected by a gas supply conduit to the cylinder. The method comprises a charging step for drawing gas from the at least one storage tank into the cylinder, comprising moving the piston head to increase the volume of the first gas chamber to decrease a gas pressure in the storage tank such that gas moves from the storage tank into the cylinder and preventing return of gas from the cylinder to the at least one storage tank during the charging step.

IPC 8 full level

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CPC (source: CN EP GB)

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Citation (examination)

- EP 3033531 B1 20191113 - HYDAC TECHNOLOGY GMBH [DE]
- US 6266959 B1 20010731 - MARKWART JURGEN [DE]

Designated contracting state (EPC)

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