

Title (en)

IMPROVED HYDRAULIC ASSEMBLY FOR ENERGY RECOVERY HYDRAULIC SYSTEMS IN WORK VEHICLES

Title (de)

VERBESSERTE HYDRAULISCHE ANORDNUNG ZUR ENERGIERÜCKGEWINNUNG VON HYDRAULISCHEN SYSTEMEN IN ARBEITSFAHRZEUGEN

Title (fr)

ENSEMBLE HYDRAULIQUE AMÉLIORÉ POUR SYSTÈMES HYDRAULIQUES DE RÉCUPÉRATION D'ÉNERGIE DANS DES ENGINS DE TRAVAIL

Publication

**EP 4101993 A1 20221214 (EN)**

Application

**EP 22177413 A 20220606**

Priority

IT 202100014852 A 20210608

Abstract (en)

Hydraulic assembly (7) for a work vehicle (1) provided with an energy recovery system, comprising a tank (11) configured to store the hydraulic oil to be used by the hydraulic circuits of the work vehicle (1), at least an accumulator (10) and a controller (12), the accumulator (10) and the controller (12) being part of the energy recovery system of the work vehicle (1), the hydraulic assembly (7) extending over a width direction (X), a vertical direction (Y) and a thickness direction (Z), the tank (11) extending entirely over the width and vertical directions (X, Y) and part of the thickness direction (Z), the at least one accumulator (10) and the controller (12) extending on the remaining at least part of the thickness adjacent to the tank (11) and on at least part of the disposable space over the width and the vertical directions (X, Y).

IPC 8 full level

**E02F 9/08** (2006.01); **E02F 9/18** (2006.01); **E02F 9/22** (2006.01); **F15B 1/02** (2006.01); **F15B 21/14** (2006.01)

CPC (source: EP)

**E02F 9/0883** (2013.01); **E02F 9/18** (2013.01); **E02F 9/2217** (2013.01)

Citation (applicant)

- US 10167612 B2 20190101 - KOHZU YOSHIHISA [JP], et al
- CN 102943496 A 20130227 - LIUGONG CHANGZHOU EXCAVATOR CO LTD, et al

Citation (search report)

- [X] KR 2020085543 A 20200715 - SEJIN HEAVY IND CO LTD [KR]
- [XY] EP 3460128 A1 20190327 - KUBOTA KK [JP]
- [Y] US 2020256032 A1 20200813 - MAEHARA TAIHEI [JP], et al
- [Y] JP 2000054435 A 20000222 - HITACHI CONSTRUCTION MACHINERY
- [Y] JP 2008150945 A 20080703 - TAKEUCHI MFG
- [Y] CN 104328818 A 20150204 - GUANGXI YUCHAI HEAVY IND CO
- [Y] US 2006138860 A1 20060629 - HINZ AXEL [DE], et al
- [A] EP 3447197 A1 20190227 - HITACHI CONSTRUCTION MACHINERY TIERRA CO LTD [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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