

Title (en)

COUPLING ASSEMBLY FOR ATTACHING A TOOL TO A HYDRAULIC EXCAVATOR OR OTHER WORK MACHINE

Title (de)

KUPPLUNGSANORDNUNG ZUR BEFESTIGUNG EINES WERKZEUGS AN EINEM HYDRAULIKBAGGER ODER EINER ANDEREN ARBEITSMASCHINE

Title (fr)

ENSEMBLE DE COUPLAGE POUR FIXER UN OUTIL À UNE EXCAVATRICE HYDRAULIQUE OU À UNE AUTRE MACHINE DE TRAVAIL

Publication

EP 3575496 A1 20191204 (EN)

Application

EP 19176322 A 20190523

Priority

GB 201808783 A 20180530

Abstract (en)

A tool 1 is coupled to a work machine 3 by an assembly comprising a tool mounting body 110 connected to the tool 1 and a machine mounting body 130 connected to the work machine 3. The machine mounting body 130 comprises one or more first connectors 33, 34 which releasably engage the tool mounting body in a mounted position relative to the machine mounting body, and one or more second connectors 50. Each second connector is movable relative to the machine mounting body in a first stage of movement in a first direction D1 from a release position to an engaged position, in which the tool mounting body 110 may be retained in the mounted position on the machine mounting body 130, and then in a second stage of movement in a second, different direction D2 from the engaged position to a lock position in which the tool mounting body 110 is locked in the mounted position in fixed relation to the machine mounting body 130 to transfer forces between the work machine 3 and the tool 1.

IPC 8 full level

E02F 3/36 (2006.01)

CPC (source: EP GB)

E02F 3/3609 (2013.01 - GB); **E02F 3/3627** (2013.01 - EP GB); **E02F 3/3631** (2013.01 - EP GB); **E02F 3/364** (2013.01 - GB); **E02F 3/365** (2013.01 - GB)

Citation (applicant)

US 7562718 B1 20090721 - MOORMAN SCOTT [US], et al

Citation (search report)

- [X] US 2008296031 A1 20081204 - YEAGER MURRAY [CA], et al
- [X] CA 2815032 A1 20141030 - AMI ATTACHMENTS INC [CA]
- [A] EP 3176331 A1 20170607 - CATERPILLAR WORK TOOLS BV [NL]
- [A] US 2010189535 A1 20100729 - NYE JOHN CHARLES [CA], et al

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

DOCDB simple family (publication)

EP 3575496 A1 20191204; **EP 3575496 B1 20220316**; GB 201808783 D0 20180711; GB 2574215 A 20191204; GB 2574215 B 20201111

DOCDB simple family (application)

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