

Title (en)

Hydraulic coupling device to connect and disconnect the implement to an excavator

Title (de)

Hydraulische Kupplungseinrichtung zum An- und Abkuppeln eines Werkzeuges an einen Bagger od.dgl.

Title (fr)

Dispositif hydraulique d'accouplement pour la prise et dépose d'un outil de travail d'excavatrice

Publication

EP 0555566 B1 19960522 (DE)

Application

EP 92250060 A 19920313

Priority

DE 9202099 U 19920214

Abstract (en)

[origin: EP0555566A1] Hydraulically operable coupling device for connecting and disconnecting the boom of an equipment item such as an excavator, loader or the like, in particular an articulated arm of a hydraulic excavator, to and respectively from an implement such as a bucket or the like, comprising a coupler element, which is linked to the free end section of the boom at a pivot pin, can be pivoted by means of an actuating device relative to the boom and at one of its ends is to be brought into positive-locking engagement with first coupling elements arranged on the outside of the implement, and a wedge-shaped or tapered locking element which is arranged at the other end of the coupler element, is guided parallel to the pivot pin and can be actuated by a hydraulic piston/cylinder arrangement and by means of which the coupler element is to be connected to the implement with positive locking free of play via a second implement coupling element reaching in the coupling position into the path of movement of the locking element, the locking element (12) being the wedge-shaped or tapered cylinder of the piston/cylinder arrangement (13) actuating the locking element (12), the cylinder (12) of the piston/cylinder arrangement (13) being axially displaceable, while its piston rod (14) is mounted in an axially fixed manner on the coupler element (6). <IMAGE>

IPC 1-7

E02F 3/36

IPC 8 full level

E02F 3/36 (2006.01)

CPC (source: EP)

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