

Title (en)

COUPLING SYSTEM FOR COUPLING OF TOOLS TO AN EXCAVATOR ARM AND USES OF THE COUPLING SYSTEM

Title (de)

KUPPLUNGSSYSTEM ZUM ANKOPPELN VON WERKZEUGEN AN EINEN BAGGERARM UND VERWENDUNGEN DES KUPPLUNGSSYSTEMS

Title (fr)

SYSTÈME DE COUPLAGE POUR COUPLER DES OUTILS À UN BRAS D'EXCAVATEUR ET UTILISATIONS DU SYSTÈME DE COUPLAGE

Publication

**EP 3722513 A1 20201014 (EN)**

Application

**EP 19168123 A 20190409**

Priority

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Abstract (en)

A coupling system for coupling of tools (T) to an excavator arm. The coupling system comprises an adapter device (1), the adapter device comprising a frame (2) and first quick coupling elements (5) being adapted for coupling to a quick coupler of the excavator arm. The adapter device comprises at least one coupling arm (6, 7) which can be turned by a hydraulic cylinder (12, 13) about a pivot axis (10, 11). The coupling arm (6, 7) comprises second quick coupling elements (18, 19, 20) for releasable attachment of a tool (T) to the coupling arm (6, 7). The coupling system further comprises an attachment member (21) which is fixedly connected to the tool (T), the attachment member (21) comprising third quick coupling elements (22, 23, 24, 25, 26) adapted for coupling to the second quick coupling elements (18, 19, 20) of the coupling arm (6, 7) for securely attaching the tool (T) to the coupling arm (6, 7). When in use, a tool (T) coupled to the adapter device (1), which is coupled to the excavator arm, is turnable by using the hydraulic cylinder (12, 13) of the adapter device (1).

IPC 8 full level

**E02F 3/36** (2006.01)

CPC (source: EP)

**E02F 3/3663** (2013.01); **E02F 3/3677** (2013.01)

Citation (search report)

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- [A] EP 2378006 A1 20111019 - LEHNHOFF HARTSTAHL GMBH & CO KG [DE]

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Designated extension state (EPC)

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