

Title (en)

QUICK-COUPLING DEVICE FOR TOOLS ON DIGGERS OR SIMILAR MACHINES

Title (de)

SCHNELLKUPPLUNGSVORRICHTUNG FÜR WERKZEUGE AN BAGGERN ODER ÄHNLICHEN MASCHINEN

Title (fr)

DISPOSITIF A ACCOUPLEMENT RAPIDE POUR OUTILS D'EXCAVATRICES OU D'ENGINS SIMILAIRES

Publication

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Application

**EP 04703773 A 20040121**

Priority

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Abstract (en)

[origin: US2006242865A1] Quick-coupling device ( 1,2 ) for tools on machines, especially on agricultural, transport, lifting, digging and earth-moving machines, which is characterized in that it comprises an adaptor ( 2 ), joined to the articulated arm of the machine via at least one master pin ( 7 ), made up of a base plate ( 17 ) which is essentially flat and side walls ( 10 ) whose outer surfaces ( 10 ) have, at least partly, slopes which converge in the direction of coupling of the adaptor ( 2 ) to the tool ( 3 ), said adaptor ( 2 ) having movable fixing means ( 13 ), the device also comprising coupling means ( 1 ) in the tool ( 3 ) to be coupled, which contain rigid hooks ( 5,5',6,6' ) for receiving the ends of the master pin ( 7 ) joining the adaptor ( 2 ) and the articulated arm of the machine and side walls ( 9 ) whose inner surfaces ( 9 ' ) have, at least partly, converging slopes which match the slopes of the outer surfaces of the adaptor, the side walls also having perforations ( 8 ) for receiving and holding, by locking, the movable fixing means ( 13 ) of the adaptor ( 2 ), so that in the coupling position a wedge or locking effect is produced between the adaptor walls ( 10 ) and the tool ( 3 ), and the fixing means ( 13 ) is introduced in the perforations ( 8 ) of the side walls ( 9 ) of the tool, the hooks ( 5,6 ) and perforations ( 8 ) also being positioned in such a way that the tool ( 3 ) couples with the adaptor ( 2 ) in one of two positions turned 180° with respect to a vertical axis.

IPC 8 full level

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