

Title (en)
QUICK-COUPLING SYSTEM HAVING A GRIPPER AS LOCKING ELEMENT

Title (de)
SCHNELLKUPPLUNGSSYSTEM MIT EINEM GREIFER ALS VERRIEGELUNGSELEMENT

Title (fr)
SYSTÈME D'ACCOUPLEMENT RAPIDE COMPRENANT UN GRAPPIN COMME ÉLÉMENT DE VERROUILLAGE

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Application
EP 20709504 A 20200220

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Abstract (en)
[origin: WO2020169746A1] The invention relates to a quick-coupling system (1) for releasably fastening add-on devices (5) to a hydraulic excavator (3). The quick-coupling system (1) has an arm coupling part (4), which can be arranged on an arm (2) of the hydraulic excavator (3) and can be hydraulically connected to a hydraulic system of the excavator (3), and at least one add-on coupling part (6) which can be arranged on an add-on device (5). The arm coupling part (4) has a hydraulically actuatable locking element (10) which can be brought into form-fitting engagement with a form-fitting element (12) of the add-on coupling part (6). The arm coupling part (4) has a first engagement element (7) which is arranged spaced apart from the locking element (10) and which can be brought into form-fitting engagement with a second engagement element (8) of the add-on coupling part (6), said second engagement element being arranged at a distance from the form-fitting element (12). The locking element (10) is designed as a gripper (11). The form-fitting element (12) projects into a gripping region (13) of the gripper (11) when the first engagement element (7) and the second engagement element (8) are in engagement with one another as intended. The gripper (11) is provided as a gripping tool, for example for picking up tree trunks or railway tracks, and can be used when no add-on coupling part is connected to the arm coupling part (4).

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