

Title (en)
A SYSTEM FOR CONTROLLING THE WORKING DEPTH OF AN AGRICULTURAL IMPLEMENT

Title (de)
SYSTEM ZUR STEUERUNG DER ARBEITSTIEFE EINES LANDWIRTSCHAFTLICHEN ARBEITSGERÄTS

Title (fr)
SYSTÈME PERMETTANT DE COMMANDER LA PROFONDEUR DE TRAVAIL D'UNE MACHINE AGRICOLE

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Application
EP 16822885 A 20161216

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Abstract (en)
[origin: WO2017101950A1] The invention relates to a coupling mechanism (100) for coupling an agricultural implement (200) to a tractor (300); said coupling mechanism comprising: a top link (2), said top link is having a front end (4) configured to be pivotally mounted on a rear end (6) of a tractor; and said top link is having an opposite rear end (8) configured to be pivotally mounted on a three point linkage (10) of an agricultural implement; a first lift arm (12) and a second lift arm (14); said first lift arm and said second lift arm each having a front end (16) configured to be pivotally mounted on a rear end of a tractor and an opposite rear end (18) configured to be pivotally mounted on a three point linkage of an agricultural implement; said two front ends of the first and second lift arm, at their points of mounting, are configured to share a common pivot axis (20); wherein said first and second lift arms being adapted to be arranged below the top link; a first hydraulic actuator (22); said hydraulic actuator is having a first end (24) configured to be pivotally mounted at a rear end of a tractor; and a second end (26) configured to be pivotally connected to a three point linkage of an agricultural implement; a hydraulic control valve (28) comprising an inlet (30 and an outlet (30') for pressurized hydraulic fluid; one or more primary outlets (32) for supplying pressurized hydraulic fluid to said first hydraulic actuator (22); and one or more secondary outlets (34) for supplying pressurized hydraulic fluid to a second hydraulic actuator (36) being located on said implement (200) to be moved by said tractor (300); wherein said hydraulic control valve (28) comprising one or more individual valves for controlling the flow of hydraulic fluid from the inlet (30) for pressurized hydraulic fluid to the first hydraulic actuator (22) and the second hydraulic actuator (36), respectively.

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