

Title (en)

METHOD AND SYSTEM FOR MECHANICAL AND MULTIPLE FLUIDIC COUPLING OF A TOOL ON A TOOL-BEARING FRAME

Title (de)

VERFAHREN UND ANORDNUNG ZU MECHANISCHER UND MEHRKANALFLUIDISCHER KUPPLUNG ZWISCHEN WERKZEUG UND TRÄGERGERÄT

Title (fr)

PROCEDE ET SYSTEME D'ACCOUPLEMENT MECANIQUE ET MULTIFLUIDIQUE D'UN OUTIL SUR UN CADRE PORTE-OUTIL

Publication

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Application

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Abstract (en)

[origin: WO0220906A1] The invention concerns a system wherein the tool-bearing frame (1) and the tool (2) are each equipped with a multiple fluidic connection box, for example hydraulic (3a, 3b) provided with complementary male-female connecting members; each of said boxes (3a, 3b) is provided with a mobile and retractable protective cover, which normally covers the connecting members contained in said box. Said covers are arranged such that, in a first phase, the proper positioning of the tool-bearing-frame (1) opposite the tool (2) automatically causes the covers (5a, 5b) to retract, directly matching the fluidic connection members of the two boxes (3a, 3b), so as to enable subsequently, in the second and third phases, the mechanical followed by the fluidic connection of the tool-bearing frame and the tool. The system protects the connecting members from the outside environment, while enabling easy and secure connection of the tool with the tool-bearing frame, without any risk of deterioration of the fluidic connectors. The invention is applicable to public works equipment or to hydraulic loaders in agriculture.

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