

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

**EP 1317585 B1 20040407 (FR)**

Application

**EP 01967446 A 20010907**

Priority

- FR 0102778 W 20010907
- FR 0011441 A 20000908

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.

IPC 1-7

**E02F 3/36**

IPC 8 full level

**E02F 3/40** (2006.01); **E02F 3/36** (2006.01); **E02F 9/22** (2006.01)

CPC (source: EP US)

**E02F 3/3622** (2013.01 - EP US); **E02F 3/3654** (2013.01 - EP US); **E02F 3/3663** (2013.01 - EP US); **E02F 9/2271** (2013.01 - EP US); **E02F 9/2275** (2013.01 - EP US)

Cited by

EP1840276A3; US7464967B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0220906 A1 20020314**; AT E263870 T1 20040415; AU 2001287825 B2 20070104; AU 8782501 A 20020322; DE 60102711 D1 20040513; DE 60102711 T2 20050331; DK 1317585 T3 20040809; EP 1317585 A1 20030611; EP 1317585 B1 20040407; ES 2218447 T3 20041116; FR 2813941 A1 20020315; FR 2813941 B1 20030516; JP 2004508472 A 20040318; NZ 524628 A 20050429; US 6899509 B1 20050531

DOCDB simple family (application)

**FR 0102778 W 20010907**; AT 01967446 T 20010907; AU 2001287825 A 20010907; AU 8782501 A 20010907; DE 60102711 T 20010907; DK 01967446 T 20010907; EP 01967446 A 20010907; ES 01967446 T 20010907; FR 0011441 A 20000908; JP 2002525306 A 20010907; NZ 52462801 A 20010907; US 36389503 A 20030708