

Title (en)
Crapple assembly for a hydraulic arm of an working vehicle

Title (de)
Greifer für einen hydraulischen Ausleger eines Arbeitsfahrzeuges

Title (fr)
Grappin pour un bras hydraulique d'un véhicule de travail

Publication
EP 1623950 B1 20061115 (EN)

Application
EP 04018326 A 20040803

Priority
EP 04018326 A 20040803

Abstract (en)
[origin: EP1623950A1] A clamping device for an hydraulic arm of a working vehicle to seize and manipulate an object, of the type connectable to the end of an articulated arm of a working vehicle by means of connecting means through a hydraulic oil supply and electrical current. characterized in that said clamping device includes: a) an arm (B); b) a forearm (AB) articulated to the first arm by means of lateral hinging (12), said forearm being inclinable up to 90 ° by means of an internal oleodynamic cylinder (49); c) a clamping jaw unit (GP) articulated outside the end of said forearm (AB) and involving three jaws (20a,20b,20c) with respective operating oleodynamic cylinders (14); d) said arm (B) involving a first rotational device (DR1) with first fluid motor (9) that transmits the external tangential continuous screw motion (7) geared on the crown gear (56) of said arm (B), in order to rotate said rotating internal box (46) with respect to the respective connecting means to the articulated arm of the working vehicle; e) said forearm (AB) comprising a second rotational means (DR2) to rotate said clamping jaw unit (GP) with respect to said forearm (AB) by means of a second internal fluid motor (42) and an axial reducer (15); f) a first and a second electrovalve (11,17) to operate the respective double two way oleodynamic movement members of said arm (B). the first fluid motor (9), the internal angulation hydraulic cylinder (49) and the three hydraulic cylinders (14) to operate the clamping jaws (20a,20b,20c), said hydraulic cylinders (14) being operated by a second fluid motor (42) in connection with a third electrovalve (43), and g) first and second brush electric switches for a rotating contact (SW1,SW2) for said second electrovalve (17) and the third electrovalve (43).

IPC 8 full level
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CPC (source: EP)
B66C 1/447 (2013.01); **B66C 1/58** (2013.01); **E02F 3/965** (2013.01)

Cited by
ITMO20090152A1; EP2123831A3; CN112455997A; CN102408061A; CN102560550A; CN104444168A; CN106426296A

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