

Title (en)
LIFTING MACHINE

Title (de)
HUBMASCHINE

Title (fr)
MACHINE DE LEVAGE

Publication
EP 2990371 A1 20160302 (EN)

Application
EP 15180208 A 20150807

Priority
IT BO20140465 A 20140826

Abstract (en)
Described is a lifting machine, comprising a main frame (2), at least a first (3) and a second rolling element (4) rotatably associated with the frame (2) for moving it along the ground or a supporting surface (G), at least one arm (5) telescopically and/or rotatably associated with the frame (2), comprising at a free end (5a) an operating element (7), first (8) and second hydraulic actuating devices (9) associated respectively with the rolling elements (3, 4) and the arm (5) to move them, at least a first (10) and a second hydraulic pump (11) respectively associated with the first (8) and the second actuating devices (9) for feeding them with an operating fluid, a hydraulic circuit (14) designed to put in fluid communication the pumps (10, 11) and the first (8) and second actuating devices (9) and comprising a selecting unit (17) switchable between a first configuration in which it puts the pumps (10, 11) in fluid communication with first actuating devices (8) and a second configuration in which it puts at least the first pump (10) in fluid communication with the second actuating devices (9) and at least an electric motor (15) associated with the pumps (10, 11) for operating them. The machine also comprises a control unit (18) associated with the selecting unit (17) and designed to control it, when the selecting unit (17) is in the second configuration, in such a way as to also put the second pump (11) in fluid communication with the second actuating devices (9) and to vary the flow rate of operating fluid from the second pump (11) to the second actuating devices (9) depending on a trend of the pressure of the operating fluid in the first pump (10).

IPC 8 full level
B66C 23/40 (2006.01); **B66F 9/22** (2006.01); **B66F 11/04** (2006.01); **E02F 9/22** (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP)
B66C 23/40 (2013.01); **B66F 9/22** (2013.01); **B66F 11/046** (2013.01); **F15B 2211/20515** (2013.01); **F15B 2211/20523** (2013.01); **F15B 2211/20576** (2013.01); **F15B 2211/3059** (2013.01); **F15B 2211/7142** (2013.01)

Citation (applicant)
IT 1395446 B1 20120921 - HINOWA S P A [IT]

Citation (search report)
• [A] JP 2003146600 A 20030521 - AICHI CORP KK
• [A] DE 10315495 A1 20041021 - LINDE AG [DE]
• [A] US 2005087065 A1 20050428 - YOSHINO KAZUNORI [JP]

Cited by
CN110905890A; US2018327240A1; CN106371146A; US10481294B2

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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