

Title (en)
FIREWOOD SPLITTING MACHINE

Title (de)
FEUERHOLZSPALTMASCHINE

Title (fr)
MACHINE À FENDRE LE BOIS DE CHAUFFAGE

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Application
EP 18822521 A 20181105

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Abstract (en)
[origin: WO2019093971A1] The invention refers to a firewood splitting machine with improved efficiency of a hydraulic cylinder (1) which is integrated within appropriate framework and adapted for pushing each section of a timber along a suitable guide towards a splitting tool. A first hydraulic connector (21) in the head (12) of the cylinder (1) is arranged along the central axis of said head (12) and comprises a protrusion (210), which extends in a direction towards the interior of the cylinder (1) and also protrudes into said cylinder (1), and at least one aperture (211) suitable for flowing the hydraulic media there-through is arranged adjacent to said protrusion (210). A piston (13) is furnished with a non-return valve (5), which is arranged on its front surface, which is faced towards the head (12), and which is on its side, which is faced towards the head (12), furnished with a first opening (51), which is adapted to cooperate with an elastically supported shutoff member (53), and on its opposite side with a second opening (52), which is hydraulically connected with a passage (54), which extends throughout the piston (13) and the rod (14) and enables said hydraulic media to flow towards said second chamber (32) between the rod (14) and the casing (11) of the cylinder (1). In the terminal position of the piston (13) closely to the head (12) or just adjacent to the head (12), said protrusion (210) within the first hydraulic connector (21) on the head (12) is located within said non-return valve (5), the elastically supported shutoff member (52) is in such case rest on said protrusion (210) against the force generated by a corresponding spring (53'), by which the hydraulic media is allowed to flow from the first hydraulic chamber (31) through said non-return valve (5) as well as through the piston (13) and the rod (14) towards the second hydraulic chamber (32).

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