

Title (en)
Log splitter

Title (de)
Holzspaltmaschine

Title (fr)
Appareil destiné à fendre les bûches

Publication
EP 0718078 A1 19960626 (EN)

Application
EP 94309714 A 19941222

Priority
EP 94309714 A 19941222

Abstract (en)
An improved hydraulic log splitter which includes a hydraulic reservoir 38 formed integrally with a frame 14 of the log splitter. Hydraulic fluid from the reservoir 38 is supplied by a pump 30 to a control valve 46. A fluid passage is open through the control valve 46 to a hydraulic intensifier 21 which includes a cylinder 24 and a piston 22 extendable from the cylinder. The piston 22 pushes a log 12 against a stationary splitting wedge 18. The piston 22 is urged toward a retracted position by a return spring 72 internal to the cylinder 24. When the control valve 46 is in other than an "extend" position, hydraulic fluid supplied to the control valve 46 is allowed to flow into a return conduit 48 back to the reservoir. In this condition, the pressure of the hydraulic fluid develops insufficient force to overcome the force exerted by the return spring 72, and the ram remains retracted. When the control valve 46 is placed in the "extend" position, fluid that flows to the return conduit 48 is blocked and the pressure in the hydraulic intensifier 21 rises to overcome the force of the spring 72 and advance the ram. A log 12 placed on the splitter is thus driven by the piston 22 to be split by the wedge 18. The wedge 18 is designed to force the log 12 against guide rails 36 during splitting. <IMAGE>

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B27L 7/00

IPC 8 full level
B27L 7/00 (2006.01)

CPC (source: EP)
B27L 7/00 (2013.01)

Citation (search report)

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