

Title (en)
MACHINE PRESS

Title (de)
MASCHINENPRESSE

Title (fr)
PRESSE

Publication
EP 2867009 B1 20160511 (DE)

Application
EP 13728967 A 20130607

Priority
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Abstract (en)
[origin: WO2014000858A1] In a machine press with a lower and an upper tool support, a closed hydraulic drive system acts upon the upper tool support. This system has at least one hydraulic drive unit (1), which for its part comprises at least one hydraulic cylinder-piston unit (2) and at least one hydraulic assembly (6) acting upon this unit and supplied from a storage reservoir (20). A base pressure above environmental pressure constantly prevails in the storage reservoir. The storage reservoir (20) is designed as a cylinder store (22) with a hydraulic chamber (21) defined by a cylinder (23) and a piston unit (24) displaceably guided therein. The piston unit is acted upon on its side functionally opposite the hydraulic chamber by a hydraulic fluid chamber (25) which for its part is connected to a high-pressure gas store (26). The active surface (27) of the hydraulic fluid chamber (25) on the piston unit is small compared to the active surface (28) of the hydraulic chamber (21) on the piston unit (24).

IPC 8 full level
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