

Title (en)

METHOD AND DEVICE FOR PRESSURE AMPLIFICATION IN CYLINDERS, IN PARTICULAR HYDRAULIC RAMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DRUCKERHÖHUNG IN ZYLINDERN, INSBESONDERE HYDRAULISCHEN STEMPELN

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT L'AUGMENTATION DE PRESSION DANS DES CYLINDRES, EN PARTICULIER DES ETANCONS HYDRAULIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: DE10306128A1] A method for increasing the working pressure in a working cylinder system has a concentric cylinder design and with the cylinder extended by applying pressure from a pump. Additional pressure is generated under the working piston (5) by a concentric smaller piston (16) which effectively reduces the volume under the working piston and thereby increases the effective pressure of the cylinder system. The smaller piston is supplied with fluid at the same pressure as the main piston. The design can be applied to cylinders operating with various fluids such as; hydraulic, hydraulic emulsion, pneumatic, plasma etc.

IPC 8 full level

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CPC (source: EP US)

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