

Title (en)

Pressure-operated clenching press especially hydraulic press for eyelets, for punching webs and setting eyelets

Title (de)

Druckmittelbetriebene Presse, insbesondere hydraulische Ösenpresse, zum Lochen von Bahnen und Setzen von Ösen

Title (fr)

Presse à fluide sous pression en particulier presse hydraulique à oeillets pour perforer des bandes et fixer des oeillets

Publication

EP 0655205 B1 19981021 (DE)

Application

EP 94112951 A 19940819

Priority

DE 4338288 A 19931110

Abstract (en)

[origin: EP0655205A2] In a pressure-operated press, two plungers which are nested one inside the other are used in a cylinder housing. The one plunger serves as a beading plunger to fix an eyelet in a punched-out hole in a web. Located in this beading plunger is an internal cylinder in which the second inner plunger is arranged. The latter serves as a cutting plunger to punch the hole in the web before the eyelet is set. In order to carry out the hole-punching and eyelet-setting in a particularly efficient manner, it is proposed to provide the beading plunger with a plunger head which is sealed off in the cylinder housing and by means of which the pressure space in the cylinder housing is divided into two separate part space. The front space thus produced in the front region of the plunger head is provided with a first pressure-medium line while a second independent pressure-medium line ends in a rod space located below the plunger head. Only this second pressure-medium line is connected to the internal cylinder in the beading plunger. The cutting plunger can be provided with a head region which is guided so as to be sealed off in the internal cylinder in the beading plunger. This allows control of the pressure medium, said control being connected in both pressure-medium lines and actively causing the working stroke as well as the return stroke of the beading plunger. The pressure relief valve can only be switched into the second pressure-medium line connected to the internal cylinder and only for a limited time during the working stroke. This has a pressure-increasing effect only on the cutting plunger.

IPC 1-7

A41H 37/02; B26D 5/12

IPC 8 full level

A41H 37/02 (2006.01); **B26D 5/12** (2006.01)

CPC (source: EP)

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Cited by

CN113084916A; DE19751960C1; US6450931B1; CN104742179A; WO9926506A1

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