

Title (en)

TOOL-CHANGING DEVICE FOR HORIZONTAL PRESSES, IN PARTICULAR FOR MULTISTAGE PRESSES

Publication

**EP 0062309 A3 19821208 (DE)**

Application

**EP 82102772 A 19820401**

Priority

CS 260681 A 19810407

Abstract (en)

[origin: EP0062309A2] In order to be able, in an automatic tool-changing device for horizontal presses, in particular for multistage presses for cold and hot deforming, to undertake a rapid change of a complete set of two, three or more pairs of tools, it is proposed according to the invention that the device consists, on the one hand, of a pair of transport magazines (11, 13) for tools (4, 2), of which both the transport magazine (11) for punches (4) and the transport magazine (13) for dies (2) are provided with an actuating mechanism for gripping the tools (2, 4) and pushing them into or out of the transport magazine (11, 13), and, on the other hand, of a movable mount (7) in which a guide (25) for pushing in one transport magazine (11, 13) is provided extending parallel to the axes of the tools (4, 2), the movable mount (7) being arranged capable of moving back and forth from the pressing chamber into a removal and storage chamber for worn tools (2, 4) taken from the press and for new tools (2, 4) to be inserted into the press. <IMAGE>

IPC 1-7

**B21D 37/04**; **B21J 13/08**

IPC 8 full level

**B21D 37/04** (2006.01); **B21D 37/14** (2006.01); **B21J 13/08** (2006.01); **B30B 13/00** (2006.01)

CPC (source: EP)

**B21D 37/14** (2013.01); **B21J 13/085** (2013.01)

Citation (search report)

- [XP] DE 3049495 A1 19810924 - NAT MACHINERY CO [US]
- [A] DE 7144690 U
- [A] DE 1900068 U 19640903 - HYDRAULIK GMBH [DE]
- [A] US 3921887 A 19751125 - MAEHARA TOSHINORI, et al
- [A] US 4088000 A 19780509 - TOMIOKA KUNIO, et al
- [A] DE 2330485 A1 19740221 - GFM FERTIGUNGSTECHNIK
- [A] DE 2740617 A1 19790322 - PELTZER & EHLERS

Cited by

DE3801628A1; EP0164490A3

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 82102772 A 19820401**; CS 260681 A 19810407; JP 5398182 A 19820402