

Title (en)  
PUNCHING MACHINE

Publication  
**EP 0180146 B1 19900117 (DE)**

Application  
**EP 85113491 A 19851024**

Priority  
DE 3440093 A 19841102

Abstract (en)  
[origin: ES8700583A1] In a machine tool, especially a punch, having a vertically movable upper tool carrier (1) with at least two punching tools (2) located next to each other and a lower tool carrier (3) with at least two punch matrixes (4) located next to each other, wherein preferably each punching tool (2) consists of a punch (5), a punch holder (6) and a retaining nut (7) connecting the punch (5) with the punch holder (6), and taking into consideration the cramped space in the upper tool carrier (1), a quick change of a punch (5) or of a punching tool (2) and/or of all punches (5) or punching tools (2) is possible, because the upper tool carrier (1) has a receiver plate (8) with a plurality of punch receivers (9) located next to each other and corresponding to the number of punching tools (2), because the punch receivers (9) are open in the direction of the front face of the upper tool carrier (1) and thereby the upper ends of the punching tools (2) or the punch holders (6) of the punching tools (2) are insertable or can be pushed into the punch receivers (9) generally in a horizontal manner, and because a locking cap (10) is provided, which closes all punch receivers (9) at their open ends and is lockable with the receiving plate (8). It is especially advantageous if the locking cap (10) is pivotably connected to the receiving plate (8) and can be locked to the receiving plate (8) by means of a locking device (13).

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**B21D 28/34**

IPC 8 full level  
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