

Title (en)  
Punch assembly

Title (de)  
Stanzvorrichtung

Title (fr)  
Dispositif de poinçonnage

Publication  
**EP 1593444 A1 20051109 (EN)**

Application  
**EP 05103777 A 20050505**

Priority  
IT BO20040291 A 20040506

Abstract (en)  
Sheet metal or similar is punched by means of a ram (6), which is moved in a straight reciprocating movement defined by a down stroke to punch at least one metal sheet, and by a return stroke, and has a first member (9) moved with a given law of motion during the down stroke and the return stroke, and a second member (19) which is connected in sliding manner to the first member (9), is brought into contact with a punch to punch the metal sheet, and is moved, during the down stroke, with substantially the same law of motion as the first member (9) when the metal sheet produces a resisting force below a given value, and with a law of motion different from that of the first member (9) when the metal sheet produces a resisting force at least equal to the given value. <IMAGE>

IPC 1-7  
**B21D 28/20**; **B30B 15/16**

IPC 8 full level  
**B21D 28/20** (2006.01); **B30B 1/32** (2006.01); **B30B 15/16** (2006.01); **F15B 11/032** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12 3 January 2001 (2001-01-03)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 118 (M - 475) 2 May 1986 (1986-05-02)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23 10 February 2001 (2001-02-10)

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