

Title (en)  
PUNCHING DEVICE

Publication  
**EP 0189541 A3 19870930 (DE)**

Application  
**EP 85114825 A 19851122**

Priority  
DE 3502970 A 19850130

Abstract (en)  
[origin: EP0189541A2] The punch is for punching holes in a hollow aluminium bar (2). It comprises a cutter plate (41) on a carrier (11) feedable inside the bar (2). A two armed lever (13) is pivotally mounted on the carrier and has a punching die (14) at one end (13') and a pneumatic servo actuator (15) acting on the other end.

IPC 1-7  
**B21D 28/28**; B30B 1/08

IPC 8 full level  
**B21D 28/28** (2006.01)

CPC (source: EP)  
**B21D 28/28** (2013.01)

Citation (search report)

- [X] US 3468206 A 19690923 - BAKULA WALTER M
- [Y] DE 1885792 U 19640109 - BLOCK WILHELM [DE]
- [Y] DE 1901277 A1 19700806 - PARTIPHARM AG
- [Y] DE 2824451 A1 19791206 - HEIDT KG RICHARD
- [Y] DE 1269458 B 19680530 - J L THOMSON RIVET CORP
- [A] DE 2620545 A1 19761202 - YOSHIDA KOGYO KK

Cited by  
DE102006000138A1; GR1003476B; CN109773011A

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0189541 A2 19860806; EP 0189541 A3 19870930**; DE 3502970 A1 19860731

DOCDB simple family (application)  
**EP 85114825 A 19851122**; DE 3502970 A 19850130