

Title (en)  
Punch assembly

Title (de)  
Stanzwerkzeug

Title (fr)  
Dispositif de poinçonnage

Publication  
**EP 0927584 A1 19990707 (EN)**

Application  
**EP 97830563 A 19971103**

Priority  
EP 97830563 A 19971103

Abstract (en)  
A punch assembly (1) wherein a portion of a toolholder body (4) is fitted in axially-movable manner inside a cylindrical tubular body (2), and is fitted integrally at one end with a punch (5) engaging in sliding manner a through hole formed in a blankholder disk (3) fitted integrally to one end of the cylindrical tubular body (2); an elastic element (14) being interposed between the cylindrical tubular body (2) and the toolholder body (4) to keep the toolholder body in a rest position wherein the punch (5) is withdrawn inside the cylindrical tubular body (2); the toolholder body (4) being defined by two elements (8, 10) screwed to each other to permit adjustment of the total axial length of the toolholder body (4), so that, when the toolholder body (4) is in the rest position, the cutting end (5a) of the punch (5) is positioned a given distance (D) from the through hole in the blankholder disk (3).  
<IMAGE>

IPC 1-7  
**B21D 45/00**

IPC 8 full level  
**B21D 28/34** (2006.01); **B21D 45/00** (2006.01)

CPC (source: EP)  
**B21D 28/34** (2013.01); **B21D 45/006** (2013.01)

Citation (search report)  
• [X] EP 0622135 A1 19941102 - AMADA METRECS CO [JP]  
• [X] WO 9407663 A1 19940414 - WILSON TOOL INT [US]  
• [X] DE 19505754 C1 19960502 - MATE PUNCH AND DIE GMBH [DE]  
• [A] US 4261237 A 19810414 - DIDONATO JR JOSEPH S, et al  
• [A] US 4440052 A 19840403 - WEISBECK RALPH L [US]  
• [A] GB 2038690 A 19800730 - MERCER NAIRNE & CO LTD

Designated contracting state (EPC)  
DE IT

DOCDB simple family (publication)  
**EP 0927584 A1 19990707**; **EP 0927584 B1 20000830**; DE 69702986 D1 20001005; DE 69702986 T2 20010329

DOCDB simple family (application)  
**EP 97830563 A 19971103**; DE 69702986 T 19971103