

Title (en)  
Upper tool for press brake.

Title (de)  
Oberes Werkzeug für Biegepresse.

Title (fr)  
Outil supérieur pour presse plieuse.

Publication  
**EP 0644002 A3 19951018 (EN)**

Application  
**EP 94118710 A 19930507**

Priority  

- EP 93107463 A 19930507
- JP 12318392 A 19920515
- JP 13351192 A 19920526
- JP 33131892 A 19921211

Abstract (en)  
[origin: EP0569880A2] An upper tool for (9) a press brake, removably attached on an upper tool holding device (1) mounted on an upper table (3) of the press brake, comprises: a wedge portion (9W) having a contact surface (9F) brought into contact with a lower surface of a support plate (7) provided on a holder body (5) of the upper tool holding device, a slide surface (9S) slidably brought into contact with any of front and rear surfaces of the support plate (7), and a clamp surface (9C) brought into pressure contact with a pressing-down and fixing section of an upper-tool pressing-down and fixing member (11) of the upper tool holding device; and a work processing portion (9M) for processing a workpiece in cooperation with a lower tool (59). Further, an upper tool holding device (1) for a press brake, for removably mounting and supporting an upper tool (9) on an upper table of the press brake, comprises: a holder body (5) attached to the upper table (3); a support plate (7) provided on a lower portion of the holder body; an upper-tool pressing-down and fixing member (11) attached to the holder body, for fixedly fastening an upper portion of an upper tool (9) in cooperation with the support plate (7); a clamp force adjusting device (13) for adjusting clamping force of the upper-tool pressing-down and fixing member; and a clamp releasing device (15) for releasing the clamped upper tool. <IMAGE>

IPC 1-7  
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**B21D 5/02** (2006.01)

CPC (source: EP)  
**B21D 5/0209** (2013.01); **B21D 5/0236** (2013.01)

Citation (search report)  

- [A] FR 2598946 A1 19871127 - PROMECAN SISSON LEHMANN [FR]
- [A] DE 749638 C 19441128
- [A] EP 0387121 A1 19900912 - AMADA SA [FR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 145 (M - 693) 6 May 1988 (1988-05-06)

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**EP 0569880 A2 19931118; EP 0569880 A3 19940112; EP 0569880 B1 19980114**; DE 69316263 D1 19980219; DE 69316263 T2 19980430; DE 69323876 D1 19990415; DE 69323876 T2 19990701; EP 0644002 A2 19950322; EP 0644002 A3 19951018; EP 0644002 B1 19990310

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