

Title (en)  
METAL SHEET BENDING DEVICE

Title (de)  
BIEGEVORRICHTUNG VON METALPLATTE

Title (fr)  
DISPOSITIF DE PLIAGE DE FEUILLE METALLIQUE

Publication  
**EP 1066893 A4 20020904 (EN)**

Application  
**EP 99973573 A 19991130**

Priority  

- JP 9906702 W 19991130
- JP 37322198 A 19981228
- JP 4904799 A 19990225
- JP 4904899 A 19990225

Abstract (en)  
[origin: EP1066893A1] The apparatus for bending metal plates provided with such mechanism that, when bending metal plates by pressing downwardly the metal plates by the upper mold, there are not required to use lower molds in different size and shape. Two (2) lower bar molds in semicircular section are prepared as lower molds. Either rotary control plumb or rotary control gadget is attached to each of lower bar molds. The curved convex surfaces of two(2) lower bar molds are placed so as to slidably rotate on the support provided with two (2) curved concave surfaces having the groove in the intermediate of the plane surfaces. The metal plate is placed on the metal contact surfaces of two (2) lower bar molds. By pressing downwardly the metal plate on the lower mold by the upper mold, the metal contact surfaces of two (2) lower bar molds are caused to rotate in the inner direction against the weight of the rotary control plumb or the resilience of the rotary control gadget, etc. Thus, the bending angle of the metal plate is made acute. <IMAGE>

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**B21D 5/01**; **B21D 5/02**

IPC 8 full level  
**B21D 5/02** (2006.01)

CPC (source: EP)  
**B21D 5/0209** (2013.01); **B21D 5/0263** (2013.01)

Citation (search report)  

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- [XY] JP H0242718 U 19900323
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- [A] JP H03124317 A 19910527 - NISSHIN STEEL CO LTD
- [XY] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11 30 September 1998 (1998-09-30)
- See references of WO 0040348A1

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