

Title (en)  
APPARATUS FOR WORKING ROD MATERIAL

Publication  
**EP 0349953 A3 19901114 (DE)**

Application  
**EP 89112119 A 19890703**

Priority  
DE 3822713 A 19880705

Abstract (en)  
[origin: EP0349953A2] An apparatus for working rod material (12) is proposed, in which the material to be bent can be held in clamping fashion in a gap provided between two bending slides (14, 16). To bend the materials counterholders (26, 28), which are steplessly adjustable in a plane extending perpendicularly to the longitudinal axis of the material, are used. <IMAGE>

IPC 1-7  
**B21D 11/12**

IPC 8 full level  
**B21D 11/12** (2006.01)

CPC (source: EP)  
**B21D 11/12** (2013.01)

Citation (search report)  

- FR 2615131 A1 19881118 - OSCAM SPA [IT]
- CH 348031 A 19600731 - GHIRINGHELLI ENRICO [IT]
- GB 2128913 A 19840510 - SHIMIZU CONSTRUCTION CO LTD
- DE 1139351 B 19621108 - KRUPP DOLBERG G M B H

Cited by  
CN106077338A; US6813922B2; US5927132A; EP0592798A1; US5375447A; US5113683A; CN102441594A; CN106077183A; US7124486B2

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