

Title (en)

Tool and use of the tool for the rolling treatment of a workpiece

Title (de)

Umformwerkzeug und Verwendung dieses Werkzeuges zum Walzformen eines Werkstückes

Title (fr)

Outil et son utilisation pour le formage d'une pièce par roulement

Publication

**EP 0995510 B1 20061213 (EN)**

Application

**EP 99120768 A 19991020**

Priority

- DE 19848153 A 19981020
- DE 19848144 A 19981020
- US 25831799 A 19990226

Abstract (en)

[origin: EP0995510A1] A deforming tool (1) for forming an elongated deformation in a planer workpiece includes cooperating upper and lower parts (50,51), at least a roller ball (11) being mounted in one of the parts and cooperating with a mating element (53) in the other part, the workpiece being engaged above and below by the two parts. The roller ball (11) is mounted for universal movement and thus allows for sharper turns when moving the workpiece without the risk of damage to the workpiece. <IMAGE>

IPC 8 full level

**B21D 17/04** (2006.01); **B21D 13/04** (2006.01); **B21D 37/00** (2006.01)

CPC (source: EP)

**B21D 17/04** (2013.01)

Citation (examination)

- US 1240791 A 19170918 - CZAJKA JOHN [US]
- US 2760260 A 19560828 - MELCHIOR FREDERICK C

Cited by

CN102000728A; CN102000722A; CN102000727A; EP1688195A1; US7343767B2; WO2008046499A1; WO2005102551A1; US8042369B2; US8490449B2; US8671728B2; US9207663B2

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