

Title (en)

Method and device for plastically forming a hollow cylinder with internal gear teeth

Title (de)

Verfahren und Vorrichtung zur plastischen Formgebung eines Hohlzylinders mit Innenverzahnung

Title (fr)

Procédé et dispositif pour la formation plastique d'un cylindre creux à denture intérieure

Publication

EP 1005932 A3 20010829 (DE)

Application

EP 99106390 A 19990327

Priority

DE 19852261 A 19981113

Abstract (en)

[origin: EP1005932A2] Hollow cylinder with inner teeth is plastically formed by a device incorporating a press matrix and press die. The press matrix comprises a counter bearing (4) and ring-shaped cover (3) for accommodating a cylindrical blank (8) with central hole. The press die has a cylindrical pin (1b) and tooth-cutting tool (1a). The diameter of the pin corresponds to the inner diameter of the blank with a slight under-dimension. The tooth-cutting tool on its outer periphery is provided with the profile (6) of the desired inner teeth of the hollow cylinder. The counter bearing (4) has a cavity (7) for accommodation of the pin when the tooth cutting tool is moved completely inwards.

IPC 1-7

B21J 5/12; **B21K 1/30**

IPC 8 full level

B21J 5/12 (2006.01); **B21K 1/30** (2006.01)

CPC (source: EP US)

B21J 5/12 (2013.01 - EP US); **B21K 1/30** (2013.01 - EP)

Citation (search report)

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- [A] US 4452060 A 19840605 - KANAMARU HISANOBU [JP], et al
- [AD] EP 0322770 A2 19890705 - MH CENTER LTD [JP], et al
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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1005932 A2 20000607; **EP 1005932 A3 20010829**

DOCDB simple family (application)

EP 99106390 A 19990327