

Title (en)  
INTERNAL HIGH PRESSURE FORMING METHOD FOR A WORKPIECE

Title (de)  
VERFAHREN ZUM INNENHOCHDRUCKUMFORMEN EINES WERKSTÜCKES

Title (fr)  
PROCEDE DE FORMAGE DE PIECE SOUS HAUTE PRESSION INTERNE

Publication  
**EP 1107837 A1 20010620 (DE)**

Application  
**EP 99932866 A 19990710**

Priority  
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• EP 9904888 W 19990710

Abstract (en)  
[origin: US6578400B1] A method and an apparatus are provided for internal high-pressure forming of a workpiece in a closed internal high-pressure forming die. The workpiece is expanded owing to the internal high fluid pressure exerted by a pressure generator and coming to rest on the cavity of the forming die. The workpiece and the forming die form friction partners in the areas of contact. In order to improve process reliability during the internal high-pressure forming of workpieces and to expand the scope of the method, vibration is imparted directly to at least one of the friction partners by a vibration generator during forming.

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**B21D 26/02**; **B21C 37/29**

IPC 8 full level  
**B21C 37/29** (2006.01); **B21D 26/02** (2006.01); **B21D 26/037** (2011.01); **B21D 26/047** (2011.01)

CPC (source: EP US)  
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**US 6578400 B1 20030617**; AT E222822 T1 20020915; CA 2342188 A1 20000309; CA 2342188 C 20070313; DE 19839353 C1 19991111; DE 59902483 D1 20021002; EP 1107837 A1 20010620; EP 1107837 B1 20020828; ES 2181455 T3 20030216; WO 0012240 A1 20000309

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