

Title (en)

Method for forming a workpiece by flow-turning

Title (de)

Verfahren zum Umformen eines Werkstücks durch Drückwalzen

Title (fr)

Procédé pour former une pièce par fluotournage

Publication

EP 0970765 A3 20000524 (DE)

Application

EP 99112960 A 19990705

Priority

DE 19830817 A 19980709

Abstract (en)

[origin: DE19830817A1] A cup-shaped blank is axially tensioned against a tool chuck and pressed against it via a roll body. At the start of the forming process, the roll body is pressed against a cylinder wall section (39) at the open end (35) of the blank (18), and then executes an axial relative forming movement over the wall section to the base (33) of the blank. An internal toothing is formed in the cylinder wall section, of an axial length, which is shorter than the length of that wall section. The toothing is at a defined distance (46) to the base of the blank.

IPC 1-7

B21H 5/02

IPC 8 full level

B21D 22/14 (2006.01); **B21D 22/16** (2006.01); **B21D 53/28** (2006.01); **B21H 5/02** (2006.01); **B21J 5/12** (2006.01); **B21K 1/30** (2006.01); **B21H 7/18** (2006.01)

CPC (source: EP US)

B21D 53/28 (2013.01 - EP US); **B21H 5/025** (2013.01 - EP US); **B21J 5/12** (2013.01 - EP US); **B21K 1/30** (2013.01 - EP US); **B21H 7/187** (2013.01 - EP US)

Citation (search report)

- [XAY] DE 4446919 A1 19960704 - DYNAMIT NOBEL AG [DE]
- [Y] US 4320644 A 19820323 - FISCHER KARL
- [Y] DE 635015 C 19360908 - FRITZ KOCKS DR ING
- [A] US 3473211 A 19691021 - LINDELL OSWALD J
- [DA] DE 19636567 A1 19970717 - LEICO WERKZEUGMASCHB GMBH & CO [DE]

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)

DE 19830817 A1 19981210; **DE 19830817 B4 20110609**; CA 2275559 A1 20000109; DE 59910698 D1 20041111; EP 0970765 A2 20000112; EP 0970765 A3 20000524; EP 0970765 B1 20041006; JP 2000024749 A 20000125; US 2001001367 A1 20010524; US 6269670 B2 20010807

DOCDB simple family (application)

DE 19830817 A 19980709; CA 2275559 A 19990618; DE 59910698 T 19990705; EP 99112960 A 19990705; JP 17962599 A 19990625; US 33275599 A 19990616