

Title (en)  
Flow-turning method and device for forming a hub without cutting

Title (de)  
Verfahren und Drückwalzmaschine zum spanlosen Anformen einer Nabe

Title (fr)  
Méthode et dispositif de fluotournage pour le formage d' un moyeu sans enlèvement de copeaux

Publication  
**EP 1362652 B1 20040707 (DE)**

Application  
**EP 02009798 A 20020430**

Priority  
EP 02009798 A 20020430

Abstract (en)  
[origin: EP1362652A1] The non-chipping process forms a hub on a workpiece (1). A roller (10) with an angled-tip separating edge (12) is set against the rotating workpiece. One region of material is thus branched off in a roughly V-shape. This region is then finally shaped by a final shaping roller. This roller has an axial stop surface by which an axial sector of the V-shaped branched-off material region is bounded.

IPC 1-7  
**B21H 1/02; B21D 53/26**

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
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Designated contracting state (EPC)  
DE

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**EP 1362652 A1 20031119; EP 1362652 B1 20040707**; DE 50200600 D1 20040812

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