

Title (en)

METHOD AND DEVICE FOR UPSETTING CYLINDRICAL MATERIAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STAUCHUNG EINES ZYLINDRISCHEN ARTIKELS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE REFOULEMENT D'UN MATÉRIAU CYLINDRIQUE

Publication

EP 1844875 A4 20100505 (EN)

Application

EP 06712616 A 20060130

Priority

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- JP 2005024164 A 20050131
- US 64955205 P 20050204

Abstract (en)

[origin: EP1844875A1] A method and a device for upsetting a cylindrical material capable of securely swelling the intended part of the cylindrical material to the inside or outside so that its wall thickness can be increased. A core (40) is disposed in the hollow parts (2a) and (3a) of the intended part (2) and the unintended part (3) of the cylindrical material (1). The unintended part (3) of the material (1) is disposed in the arresting hole (11) of an arresting die (10). The intended part (2) of the material (1) is disposed in a molding recessed part (12). The intended part (2) of the material (1) is disposed in the insertion hole (21) of a guide (20). Next, while the intended part (2) of the material (1) is pressurized in the axial direction with a punch (30), the guide (20) is moved in an opposite direction (25) to the moving direction (35) of the punch to swell the work predicted part (2) of the material (1) to the outside so that its wall thickness is increased in the molding recessed part (12).

IPC 8 full level

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CPC (source: EP KR)

B21C 37/16 (2013.01 - EP); **B21J 5/08** (2013.01 - EP KR); **B21K 1/10** (2013.01 - EP KR); **B21K 21/12** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2006080503A1

Cited by

EP3403740A1; FR3133773A1; WO2023186795A1

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