

Title (en)

Method for providing a hollow body with an additional form

Title (de)

Verfahren zum Einbringen einer Nebenform in ein einen Hohlraum aufweisendes Formteil

Title (fr)

Méthode de réalisation d'une forme additionnelle dans un corps creux

Publication

**EP 1454682 A3 20050511 (DE)**

Application

**EP 04004461 A 20040227**

Priority

DE 10309625 A 20030304

Abstract (en)

[origin: EP1454682A2] To impose an additional shape into a workpiece (1) with a hollow interior (6), e.g. a tubular structure and the like, the workpiece is laid in a holder (2,3) and its open ends are sealed by plugs (8). The interior is filled with a gas under pressure, using compressed air or nitrogen. While the interior is under pressure as a support medium, the shape is imposed by an external embossing die (4).

IPC 1-7

**B21D 22/10**

IPC 8 full level

**B21D 22/10** (2006.01)

CPC (source: EP)

**B21D 22/105** (2013.01)

Citation (search report)

- [X] WO 02087802 A1 20021107 - ALCAN INT LTD [CA], et al
- [X] SU 593768 A1 19780225 - LE POLT I IM M I KALININA [SU]
- [X] EP 1134047 A2 20010919 - TOYOTA MOTOR CO LTD [JP]
- [A] US 6209372 B1 20010403 - FREEMAN RICHARD BENJAMIN [US]
- [A] US 5746079 A 19980505 - HETTINGER GERHARD [DE], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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