

Title (en)

METHOD AND DEVICE FOR THE PRODUCTION OF ACCESSORY FORM ELEMENTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON NEBENFORMELEMENTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE DES ELEMENTS DE FORME ACCESSOIRES

Publication

EP 1383619 B1 20090218 (DE)

Application

EP 02727360 A 20020306

Priority

- DE 10121787 A 20010504
- EP 0202418 W 20020306

Abstract (en)

[origin: DE10121787C1] The invention relates to a method and a device for the production of varying elements in a hollow profile, enclosed around the circumference thereof. The device comprises an internal high pressure moulding tool, into the die recess of which a hollow profile blank may be inserted. A branch leads radially off from the die recess, in which the hollow profile blank may be expanded by means of a fluid internal high pressure to form the varying element. According to the invention, varying elements of almost any shape may be formed in the hollow element in a simple and process-secure manner with regard to the moulding process, whereby the device further comprises a membrane and a pressure generator, by means of which the membrane may be pressurised by a pressure medium in such a way that the membrane lies supported against the expanding direction during the expansion of the varying element as said element is formed. The membrane yields elastically on progressive formation of the varying element until the end form is achieved. The membrane is mounted on the tool outside the longitudinal edge of the die recess and stretching across the branching.

IPC 8 full level

B21D 26/037 (2011.01)

CPC (source: EP US)

B21D 26/037 (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 10121787 C1 20020711; CA 2445406 A1 20021114; DE 50213291 D1 20090402; EP 1383619 A1 20040128; EP 1383619 B1 20090218; US 2004172999 A1 20040909; WO 02090014 A1 20021114

DOCDB simple family (application)

DE 10121787 A 20010504; CA 2445406 A 20020306; DE 50213291 T 20020306; EP 0202418 W 20020306; EP 02727360 A 20020306; US 47653204 A 20040503