Title (en)

METHOD FOR PRODUCING COMPONENTS USING A FLOWABLE ACTIVE MEDIUM AND A FORMING TOOL

Title (de)

VERFAHREN ZUM HERSTELLEN VON BAUTEILEN MITTELS EINES FLIESSFÄHIGEN WIRKMEDIUMS SOWIE EINES FORMWERKZEUGS

Title (fr)

PROCEDE DE PRODUCTION DE COMPOSANTS A L'AIDE D'UN AGENT ACTIF FLUIDE ET OUTIL DE FORMAGE CORRESPONDANT

Publication

EP 1268099 B1 20050323 (DE)

Application

EP 01936183 A 20010404

Priority

- DE 10016803 A 20000405
- EP 0103816 W 20010404

Abstract (en)

[origin: WO0176787A1] The invention relates to a method for producing components from a blank (P1 - P4) consisting of a deep-drawable material, especially steel, using a flowable active medium. During this method, the blank (P1 - P4) is clamped in a forming device (U1,U2) and exposed to the active medium. The blank (P1 - P4) is then preformed by increasing the pressure (P) exerted by the active medium in an area of the blank (P1 - P4) which is limited to a partial section (V1,V2) of the blank surface and which partially covers the surface section (B1,B2) of the blank (P1 - P4) from which the final form of the component is produced. The preformed blank (P1 - P4) is then finished using a forming tool (F1,F2).

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 22/20 (2006.01); **B21D 22/26** (2006.01); **B21D 26/02** (2011.01)

CPC (source: EP US)

B21D 22/205 (2013.01 - EP US); **B21D 22/26** (2013.01 - EP US); **B21D 26/021** (2013.01 - EP US); **B21D 26/059** (2013.01 - EP US); Y10T 29/49805 (2015.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0176787 A1 20011018; AT E291506 T1 20050415; AU 6216701 A 20011023; BR 0109782 A 20030121; CA 2397967 A1 20011018; CN 1418137 A 20030514; CZ 20023284 A3 20030514; CZ 296757 B6 20060614; DE 10016803 A1 20011018; DE 10016803 B4 20060608; DE 50105689 D1 20050428; EP 1268099 A1 20030102; EP 1268099 B1 20050323; ES 2240458 T3 20051016; JP 2003530220 A 20031014; MX PA02009845 A 20040913; PL 365699 A1 20050110; PT 1268099 E 20050831; US 2003140672 A1 20030731; US 6832501 B2 20041221

DOCDB simple family (application)

EP 0103816 W 20010404; AT 01936183 T 20010404; AU 6216701 A 20010404; BR 0109782 A 20010404; CA 2397967 A 20010404; CN 01806847 A 20010404; CZ 20023284 A 20010404; DE 10016803 A 20000405; DE 50105689 T 20010404; EP 01936183 A 20010404; ES 01936183 T 20010404; JP 2001574294 A 20010404; MX PA02009845 A 20010404; PL 36569901 A 20010404; PT 01936183 T 20010404; US 24042702 A 20020930