

Title (en)  
Deep-drawing device for sheet material in a die made of resiliently deformable material

Title (de)  
Tiefziehvorrichtung zum Ziehen von blattförmigem Material in einer elastischen Verformungsmatze

Title (fr)  
Dispositif d'emboutissage de matériaux en feuille sur une matrice de formage en matériau élastique

Publication  
**EP 0572301 B1 19960724 (FR)**

Application  
**EP 93401288 A 19930518**

Priority  
FR 9206502 A 19920527

Abstract (en)  
[origin: EP0572301A1] The subject of the invention is a device for the deep-drawing of sheet material, of the type comprising a die formed by a cushion (2) made of elastic material, such as, for example, an elastomer, housed in a retaining vessel (1), means for preforming a sheet-metal blank (6) which are constituted by an outer slide-block carrying an upper blank-holder (4a), means for the final forming of the said sheet-metal blank (6), which are constituted by a central slide-block acting on a plunger (5) and a first means (10) for absorbing the excess volume of the cushion (2) in relation to that defined by the surface area of the finished part to be obtained during the final forming of the said part. The device also comprises at least one second means (20) for compensating for the excess volume of the cushion (2) due to physical characteristic variations in the material constituting the said cushion. <IMAGE>

IPC 1-7

**B21D 22/10**

IPC 8 full level

**B21D 22/10** (2006.01); **B21D 24/00** (2006.01); **B21D 24/16** (2006.01); **B30B 15/02** (2006.01)

CPC (source: EP US)

**B21D 22/10** (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Cited by

CN103331935A; EP0888833A1; EP0739663A3

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0572301 A1 19931201; EP 0572301 B1 19960724**; CA 2096461 A1 19931128; DE 69303773 D1 19960829; DE 69303773 T2 19970320;  
ES 2090906 T3 19961016; FR 2691653 A1 19931203; FR 2691653 B1 19940826; JP H07275962 A 19951024; US 5361617 A 19941108

DOCDB simple family (application)

**EP 93401288 A 19930518**; CA 2096461 A 19930518; DE 69303773 T 19930518; ES 93401288 T 19930518; FR 9206502 A 19920527;  
JP 12620493 A 19930527; US 6666093 A 19930525