

Title (en)

METHOD AND DEVICE FOR DEEP-DRAWING SHEET MATERIALS ON AN ELASTIC FORMATION LOWER DIE

Publication

**EP 0376809 B1 19930421 (FR)**

Application

**EP 89403590 A 19891220**

Priority

FR 8817526 A 19881230

Abstract (en)

[origin: EP0376809A1] Method for deep-drawing sheet materials, of the type comprising a pad (6) made of an elastic material, according to which a sheet metal blank (3) to be formed is disposed on a holder forming a lower peripheral pressure plate (2a), an upper pressure plate (1a) is applied onto the peripheral portion of the sheet metal blank (3) for the preforming of the said blank and then a punch (4) is applied onto the central portion of the sheet metal blank (3) for the final forming, characterised in that, during the final forming, the excess volume of the elastic pad (6), generated by the application of the punch (4), in relation to that determined by the surface of the finished part to be obtained, is absorbed. <IMAGE>

IPC 1-7

**B21D 22/10**

IPC 8 full level

**B21D 22/10** (2006.01); **B21D 22/20** (2006.01); **B21D 24/02** (2006.01); **B21D 37/00** (2006.01)

CPC (source: EP KR US)

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

Cited by

AU624459B2; EP0486344A1; FR2668982A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0376809 A1 19900704**; **EP 0376809 B1 19930421**; AT E88383 T1 19930515; AU 4700689 A 19900705; AU 624459 B2 19920611; BR 8906861 A 19900925; CA 2006772 A1 19900630; CN 1025296 C 19940706; CN 1043645 A 19900711; CS 8907513 A2 19911217; CZ 283163 B6 19980114; DD 294438 A5 19911002; DE 68906141 D1 19930527; DE 68906141 T2 19931202; FR 2641217 A1 19900706; FR 2641217 B1 19940401; HU 204000 B 19911128; HU 896791 D0 19900328; HU T53562 A 19901128; JP H02290628 A 19901130; KR 900009259 A 19900704; RO 107565 B1 19931230; RU 2018385 C1 19940830; US 5081859 A 19920121; ZA 899723 B 19910828

DOCDB simple family (application)

**EP 89403590 A 19891220**; AT 89403590 T 19891220; AU 4700689 A 19891220; BR 8906861 A 19891229; CA 2006772 A 19891228; CN 89109641 A 19891230; CS 751389 A 19891228; DD 33681089 A 19891229; DE 68906141 T 19891220; FR 8817526 A 19881230; HU 679189 A 19891227; JP 34496489 A 19891228; KR 890020260 A 19891229; RO 14355289 A 19891229; SU 4742802 A 19891229; US 45751789 A 19891227; ZA 899723 A 19891219