

Title (en)

METHOD AND DEVICE FOR PRODUCING STRUCTURAL ELEMENTS FROM A DEEP DRAWING BLANK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN VON BAUTEILEN AUS EINER TIEFZIEHBAREN PLATINE

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE DES COMPOSANTS A PARTIR D'UNE PLAQUE POUVANT ETRE EMBOUTIE PROFOND

Publication

EP 1276576 A1 20030122 (DE)

Application

EP 01938036 A 20010323

Priority

- DE 10016804 A 20000405
- EP 0103323 W 20010323

Abstract (en)

[origin: WO0176786A1] The invention relates to a method for producing structural elements from a blank (1) consisting of a deformable material, especially steel, according to which the blank (1) is supported during the deformation process by a fluid pad (F) against a shaping tool (5). The invention further relates to a device for carrying out the inventive method. According to the inventive method, the blank (1) is shaped to an intermediate shape by means of the tool (5). The blank (1) shaped to an intermediate shape is then deformed in a locally limited manner by means of a counter mold (6) which is moved against the blank (1) counter to the effective direction (R) of the tool (5). The invention provides a method for producing exactly shaped structural elements at low costs and without any loss in quality.

IPC 1-7

B21D 22/20; **B21D 22/10**; **B21D 22/06**

IPC 8 full level

B21D 24/16 (2006.01); **B21D 22/20** (2006.01)

CPC (source: EP US)

B21D 22/205 (2013.01 - EP US)

Citation (search report)

See references of WO 0176786A1

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 0176786 A1 20011018; AU 6380101 A 20011023; BR 0109804 A 20030121; CA 2402945 A1 20011018; CN 1419480 A 20030521; CZ 20023270 A3 20030813; DE 10016804 A1 20011018; DE 10016804 B4 20041111; EP 1276576 A1 20030122; JP 2003530219 A 20031014; MX PA02009693 A 20040906; US 2003159484 A1 20030828

DOCDB simple family (application)

EP 0103323 W 20010323; AU 6380101 A 20010323; BR 0109804 A 20010323; CA 2402945 A 20010323; CN 01807305 A 20010323; CZ 20023270 A 20010323; DE 10016804 A 20000405; EP 01938036 A 20010323; JP 2001574293 A 20010323; MX PA02009693 A 20010323; US 22044203 A 20030218