

Title (en)

Bending machine with positive and negative bending arms working independently from each other

Title (de)

Biegevorrichtung mit unabhängigen positiv und negativ arbeitenden Biegearmen

Title (fr)

Dispositif de pliage à bras de pliage positif et négatif indépendants

Publication

EP 1777017 A1 20070425 (FR)

Application

EP 05356189 A 20051021

Priority

EP 05356189 A 20051021

Abstract (en)

A device (1) for bending a blank (2) comprises a support (7), a clamp (3), a mobile bending tool (5) with two arms (53, 53') supported by a structure (51) and a blank handling system. The arms are mobile with respect to the support structure and each other. The blank handling system comprises mechanism (8) for displacing the structure in a direction (X-X') essentially parallel to the immobilized part of the blank and two drive mechanisms (6, 6') able to independently displace each of the arms in a direction (Y-Y') essentially perpendicular to the immobilized part of the blank.

IPC 8 full level

B21D 5/04 (2006.01)

CPC (source: EP)

B21D 5/045 (2013.01)

Citation (applicant)

FR 2750625 A1 19980109 - JEANDEAUD JEAN CLAUDE [FR]

Citation (search report)

- [A] US 4411148 A 19831025 - ASCHAUER HANS [AT], et al
- [A] EP 0679456 A1 19951102 - SALVAGNINI ITALIA SPA [IT]
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 515 (M - 1329) 23 October 1992 (1992-10-23)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 286 (M - 521) 27 September 1986 (1986-09-27)

Cited by

CN106825140A; EP2481493A1; ITPD20110021A1; ITUB20160836A1; CN108698102A; EA037010B1; US11318516B2; WO2012101543A1; WO2017141124A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1777017 A1 20070425; WO 2007045770 A1 20070426

DOCDB simple family (application)

EP 05356189 A 20051021; FR 2006002363 W 20061020