Title (en)

A PRESS FOR DEFORMING A PLANAR SHEET HAVING AN OPEN-RING CONFORMATION UP TO GIVING THE PLANAR SHEET A HELICAL SWEEP

Title (de)

PRESSE ZUR VERFORMUNG EINES FLACHEN BLECHS MIT EINER OFFENEN RINGFORM, UM DEM FLACHEN BLECH EINEN SPIRALFÖRMIGEN BOGEN ZU VERLEIHEN

Title (fr)

PRESSE POUR DÉFORMER UNE FEUILLE PLANE PRÉSENTANT UNE CONFORMATION À CYCLE OUVERT JUSQU'À DONNER UN BALAYAGE HÉLICOÏDAL À LA FEUILLE PLANE

Publication

EP 3278893 A1 20180207 (EN)

Application

EP 17184807 A 20170803

Priority

IT 201600082693 A 20160805

Abstract (en)

A press (1) for deforming a planar sheet (2) having an open-ring conformation up to giving the planar sheet (2) a helical sweep, comprising: a first deforming element (4), borne by a first arm (8), comprising a first wall (5) which conforms a helicoid sector defining a first helical axis (X); a second deforming element (6), borne by a second arm (9), comprising a second wall (7) which conforms the helicoid sector defining a second helical axis (Y). The first arm (8) and the second arm (9) are rotatably coupled to one another, with respect to a relative rotation axis (Z), so that the first wall and the second wall are facing one another and so that the rotation axis (Z) is in a predetermined position so that, during the deformation of a portion (3) of the planar sheet (2), the first helical axis (X) and the second helical axis (Y) define between them an angle (±) that is greater than zero so that the deforming force decreases in a direction going from the internal edge (3a) to the external edge (3b) of the portion (3).

IPC 8 full level

B21D 11/06 (2006.01); **B30B 3/00** (2006.01)

CPC (source: EP)

B21D 11/06 (2013.01); **B30B 1/08** (2013.01); **B30B 15/047** (2013.01)

Citation (search report)

- [A] WO 2013011394 A1 20130124 - MILLE S R L [IT], et al
- [A] US 4723431 A 19880209 - MCKINDARY THOMAS W [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3278893 A1 20180207; **EP 3278893 B1 20190515**; IT 201600082693 A1 20180205

DOCDB simple family (application)

EP 17184807 A 20170803; IT 201600082693 A 20160805