

Title (en)

FOLDING DEVICE FOR FORMING A CORRUGATION IN A METAL SHEET AND METHOD FOR USING A FOLDING DEVICE

Title (de)

FALTVORRICHTUNG ZUR HERSTELLUNG EINER WELLUNG IN EINEM METALLBLECH UND VERFAHREN ZUR VERWENDUNG EINER FALTbaren VORRICHTUNG

Title (fr)

DISPOSITIF DE PLIAGE POUR FORMER UNE ONDULATION DANS UNE TOLE METALLIQUE ET PROCEDE D'UTILISATION D'UN DISPOSITIF DE PLIAGE

Publication

EP 3140058 A1 20170315 (FR)

Application

EP 15725828 A 20150506

Priority

- FR 1454078 A 20140506
- FR 2015051203 W 20150506

Abstract (en)

[origin: WO2015170054A1] The invention relates to a folding device for forming a corrugation (2) in a metal sheet, the folding device comprising: a frame (9); a matrix comprising two matrix elements (14, 15) each having a concave half-cavity, slidably mounted on the frame (9); a punch (11) comprising a head (12) capable of being inserted into the cavity (13) of the matrix such as to press the metal sheet; and two die cushions (16, 17) slidably mounted and vertically movable relative to the lower frame (9) such as to clamp the metal sheet (1) against the bearing surfaces of the matrix elements (14, 15). During the movement of the punch (11) into the folding position thereof, the metal sheet (1) transmits a traction force to the matrix elements (14, 15) and to the die cushions (16, 17) such as to move same into the adjacent position thereof.

IPC 8 full level

B21D 13/02 (2006.01)

CPC (source: CN EP KR US)

B21D 3/00 (2013.01 - US); **B21D 13/02** (2013.01 - CN EP KR US); **B21D 37/10** (2013.01 - KR)

Citation (search report)

See references of WO 2015170054A1

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)

WO 2015170054 A1 20151112; CN 106457335 A 20170222; CN 106457335 B 20180713; EP 3140058 A1 20170315; EP 3140058 B1 20180307; FR 3020769 A1 20151113; FR 3020769 B1 20170106; KR 102353810 B1 20220120; KR 20170003583 A 20170109; US 10335844 B2 20190702; US 2017066027 A1 20170309

DOCDB simple family (application)

FR 2015051203 W 20150506; CN 201580023180 A 20150506; EP 15725828 A 20150506; FR 1454078 A 20140506; KR 20167032471 A 20150506; US 201515308424 A 20150506