

Title (en)
FORMING A BEND IN A CORRUGATION

Title (de)
HERSTELLUNG EINER BIEGUNG IN EINER WELLUNG

Title (fr)
FORMAGE D'UN COUDE DANS UNE ONDULATION

Publication
EP 3377241 A1 20180926 (FR)

Application
EP 16819128 A 20161121

Priority
• FR 1561137 A 20151119
• FR 2016053035 W 20161121

Abstract (en)
[origin: WO2017085435A1] The invention relates to a forming device for forming a bend in a corrugation. The forming device comprises: a bottom frame (4) having a planar mounting surface (6) for receiving a sheet metal plate having a corrugation projecting in relation to a planar portion of the sheet metal plate, a projecting counter-form (5) placed on the mounting surface and intended to be accommodated in the corrugation, wherein the projecting counter-form has a stationary portion (7) and a movable portion (8) that is hinged, in relation to the stationary portion, around an axis perpendicular to the mounting surface, a top frame (34) placed above the bottom frame, a press configured to lower the top frame towards the bottom frame, and a hollow upper die supported by the top frame between the top frame (34) and the bottom frame (4). The hollow upper die (36, 37) is arranged above the movable portion of the projecting counter-form.

IPC 8 full level
B21D 11/10 (2006.01); **B21D 11/20** (2006.01); **B21D 13/02** (2006.01); **B21D 13/10** (2006.01); **B21D 47/00** (2006.01); **F17C 3/06** (2006.01)

CPC (source: EP KR US)
B21D 11/10 (2013.01 - EP KR US); **B21D 11/206** (2013.01 - EP KR US); **B21D 13/02** (2013.01 - EP KR US); **B21D 13/10** (2013.01 - EP KR US); **F17C 3/06** (2013.01 - KR US)

Citation (search report)
See references of WO 2017085435A1

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)
FR 3043925 A1 20170526; FR 3043925 B1 20171208; CN 108290195 A 20180717; CN 108290195 B 20190917; EP 3377241 A1 20180926; EP 3377241 B1 20190605; ES 2744257 T3 20200224; JP 2019501779 A 20190124; JP 6811238 B2 20210113; KR 102599224 B1 20231107; KR 20180084811 A 20180725; SG 11201804051W A 20180628; US 10946426 B2 20210316; US 2018297097 A1 20181018; WO 2017085435 A1 20170526

DOCDB simple family (application)
FR 1561137 A 20151119; CN 201680066880 A 20161121; EP 16819128 A 20161121; ES 16819128 T 20161121; FR 2016053035 W 20161121; JP 2018524764 A 20161121; KR 20187014577 A 20161121; SG 11201804051W A 20161121; US 201615776338 A 20161121