

Title (en)

APPARATUS AND PROCESS FOR FORMING PROFILES WITH A VARIABLE HEIGHT BY MEANS OF COLD ROLLING

Title (de)

VORRICHTUNG UND VERFAHREN ZUM KALTWALZPROFILIEREN VON PROFILLEN MIT VERÄNDERLICHER HÖHE

Title (fr)

DISPOSITIF ET PROCÉDÉ DE PROFILAGE PAR LAMINAGE À FROID DE PROFILÉS DE HAUTEUR VARIABLE

Publication

EP 2225055 A1 20100908 (DE)

Application

EP 08860452 A 20081210

Priority

- EP 2008010468 W 20081210
- DE 102007059439 A 20071210

Abstract (en)

[origin: CA2708789A1] The invention relates to an apparatus for forming a profile by means of cold roll forming, said apparatus comprising a forming unit (9) having at least one adjustment stand (17, 17', 17'', 17''') which has a gantry containing a pair of rollers between which there is a gap, through which the sheet-metal strip of length (X) is passed, wherein the gantry is translationally and rotationally displaced, during the cold roll forming, with at least one translatory degree of freedom and one rotary degree of freedom. According to the invention, the apparatus for forming a profile with a variable height is configured in that the gantry has one rotary degree of freedom, which is decoupled from the at least one translatory degree of freedom, about a rotational axis which runs between the rollers substantially in the direction of the gap. The invention also relates to a corresponding process.

IPC 8 full level

B21D 5/08 (2006.01)

CPC (source: EP US)

B21D 5/083 (2013.01 - EP US)

Citation (search report)

See references of WO 2009074299A1

Cited by

EP3034191A1; US11351586B2; WO2016097426A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007059439 B3 20090402; AU 2008335879 A1 20090618; AU 2008335879 B2 20150507; BR PI0822062 A2 20150623; CA 2708789 A1 20090618; EP 2225055 A1 20100908; EP 2225055 B1 20120829; KR 20100100926 A 20100915; MX 2010006386 A 20100930; US 2011088444 A1 20110421; US 9174258 B2 20151103; WO 2009074299 A1 20090618

DOCDB simple family (application)

DE 102007059439 A 20071210; AU 2008335879 A 20081210; BR PI0822062 A 20081210; CA 2708789 A 20081210; EP 08860452 A 20081210; EP 2008010468 W 20081210; KR 20107014521 A 20081210; MX 2010006386 A 20081210; US 74747708 A 20081210