

Title (en)

Pack of laminations and forming projections and depressions.

Title (de)

Blechpaket und Verfahren zur Herstellung von Fortsätzen und Vertiefungen.

Title (fr)

Paquet de tôles et procédé pour former des projections et des dépressions.

Publication

**EP 0304343 A2 19890222 (EN)**

Application

**EP 88309499 A 19881011**

Priority

GB 8714581 A 19870622

Abstract (en)

In one embodiment, the pack is torsionally flexible. Pack of laminations comprises laminations which are connected one to another by only a single connection. The single connection is provided by a projection (4) which projects into a depression (3). The projection (4) has a height which is greater than 50% of the thickness of the lamination and the depression (3) has a depth which is greater than 50% of the thickness of the lamination. The depression (3) and projection (4) are produced by a projection punch (13) which cooperates with a die (14). The die has a lip which is either radiussed (r) or conical (C) and the punch (13) causes the metal of the lamination to be extruded past the lip into the die (14) whilst the depression (3) is being formed. The radiussed or conical lip allows the height of the projection and the depth of the depression to be greater than the normal 50% shear stress fracture depth/height.

IPC 1-7

**B21D 28/10**; **H01F 27/24**; **H01F 27/26**; **H01F 41/02**

IPC 8 full level

**B21D 35/00** (2006.01); **H01F 27/245** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)

**B21D 35/00** (2013.01); **H01F 27/245** (2013.01); **H01F 41/0233** (2013.01)

Cited by

DE102009051271A1; EP0432055A1; FR2655472A1; US6588093B1; WO9916092A1

Designated contracting state (EPC)

AT BE CH DE ES FR GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0304343 A2 19890222**; **EP 0304343 A3 19891108**; GB 2206453 A 19890105; GB 2206453 B 19920102; GB 8714581 D0 19870729; HK 82592 A 19921106; SG 36392 G 19920612

DOCDB simple family (application)

**EP 88309499 A 19881011**; GB 8714581 A 19870622; HK 82592 A 19921029; SG 36392 A 19920331