

Title (en)

Method and apparatus for making a building structure form with a flat stiffened plate part.

Title (de)

Verfahren und Vorrichtung zum Herstellen von einer Baustukturform mit einem Flach versteiften Plattenteil.

Title (fr)

Procédé et appareil pour fabriquer une forme de structure de construction avec une partie renforcée plane.

Publication

EP 0680793 A1 19951108 (EN)

Application

EP 95201157 A 19950504

Priority

NL 9400739 A 19940504

Abstract (en)

A method for stiffening plate-like material for a spatial structural member, for example a cable trough, which stiffening takes place by locally pressing through the material to form ridges, wherein at least on one side of the ridge the thickness of the material is made smaller, whereby the material is extended, this such that internal tensions resulting from cold deformations in the plate are eliminated. <IMAGE>

IPC 1-7

B21D 31/04; **B21D 13/04**

IPC 8 full level

B21D 13/04 (2006.01); **B21D 31/04** (2006.01)

CPC (source: EP)

B21D 13/04 (2013.01); **B21D 31/046** (2013.01)

Citation (search report)

- [A] US 4418558 A 19831206 - SIMMONS ROBERT A [US]
- [A] GB 2252069 A 19920729 - NIPPON DENSO CO [JP]
- [A] US 3673838 A 19720704 - CLEMPSON PHILIP GEORGE

Cited by

DE102012005005A1; DE102012005005B4; DE102013018995A1; WO2015070834A1; DE19832897B4; DE102013018995B4; CN108723190A; EP0972585A2; WO2012000738A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0680793 A1 19951108; **EP 0680793 B1 20000405**; AT E191375 T1 20000415; DE 69516033 D1 20000511; DE 69516033 T2 20090917; DK 0680793 T3 20000814; ES 2144568 T3 20000616; GR 3033241 T3 20000929; NL 9400739 A 19951201; PT 680793 E 20000731

DOCDB simple family (application)

EP 95201157 A 19950504; AT 95201157 T 19950504; DE 69516033 T 19950504; DK 95201157 T 19950504; ES 95201157 T 19950504; GR 20000400923 T 20000414; NL 9400739 A 19940504; PT 95201157 T 19950504