

Title (en)

METHOD FOR ASSEMBLING AT LEAST TWO COMPONENT METAL ELEMENTS FOR PRODUCING A STRUCTURE

Title (de)

VERBINDUNGSVERFAHREN VON MINIMAL ZWEI METALLISCHEN BAUTEILEN ZUR HERSTELLUNG EINER STRUKTUR

Title (fr)

PROCEDE D'ASSEMBLAGE D'AU MOINS DEUX ELEMENTS CONSTITUTIFS EN METAL EN VUE DE CREER UNE STRUCTURE

Publication

EP 1192016 A1 20020403 (FR)

Application

EP 00945472 A 20000705

Priority

- EP 00945472 A 20000705
- BE 0000080 W 20000705
- EP 99202194 A 19990705

Abstract (en)

[origin: EP1066894A1] The invention concerns a method for assembling at least two simple sheet metal elements (1, 2, 3,; 11, 12, 21, 21', 22, 22') for producing a structural part with open section, preferably U-shaped, or closed section, at least one of the metal elements having a high or very high yield strength and low deformability. The invention is characterised in that the metal elements are formed by at least a folding process; the metal elements are arranged relative to each other along a junction section; the metal elements are assembled by a crimped lap-joint (4) along the junction section of said elements.

IPC 1-7

B21D 39/02

IPC 8 full level

B21D 39/02 (2006.01)

CPC (source: EP KR US)

B21D 39/02 (2013.01 - EP KR US); **Y10T 29/49616** (2015.01 - EP US); **Y10T 29/49936** (2015.01 - EP US); **Y10T 29/49941** (2015.01 - EP US); **Y10T 403/49** (2015.01 - EP US); **Y10T 403/4966** (2015.01 - EP US); **Y10T 403/4991** (2015.01 - EP US)

Citation (search report)

See references of WO 0102110A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL

DOCDB simple family (publication)

EP 1066894 A1 20010110; AT E233139 T1 20030315; AU 5956400 A 20010122; BR 0012356 A 20020326; CA 2373908 A1 20010111; DE 60001502 D1 20030403; DE 60001502 T2 20031211; EP 1192016 A1 20020403; EP 1192016 B1 20030226; KR 20020043545 A 20020610; US 6857812 B1 20050222; WO 0102110 A1 20010111

DOCDB simple family (application)

EP 99202194 A 19990705; AT 00945472 T 20000705; AU 5956400 A 20000705; BE 0000080 W 20000705; BR 0012356 A 20000705; CA 2373908 A 20000705; DE 60001502 T 20000705; EP 00945472 A 20000705; KR 20027000113 A 20020104; US 1928902 A 20020104