

Title (en)

METHOD FOR FORMING DEFORMED CROSS-SECTION AND FORMED ARTICLE OF QUADRILATERAL CROSS-SECTION EXHIBITING EXCELLENT SPOT WELDABILITY

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERFORMTEN QUERSCHNITTS UND FORMARTIKEL MIT VIERSEITIGEM QUERSCHNITT MIT HERVORRAGENDER PUNKTSCHWEISSFÄHIGKEIT

Title (fr)

PROCEDE DE MISE EN FORME DE SECTION TRANSVERSALE IRREGULIERE ET ARTICLE MOULE AYANT UNE SECTION TRANSVERSALE EN PARALLELOGRAMME ET POSSEDANT D'EXCELLENTE PROPRIETES DE SOUDABILITE PAR POINTS

Publication

EP 2351623 B1 20160817 (EN)

Application

EP 09816295 A 20090924

Priority

- JP 2009067123 W 20090924
- JP 2008246271 A 20080925
- JP 2008246268 A 20080925

Abstract (en)

[origin: EP2351623A1] It is difficult for a forming technique of complex cross-section shape of the related art to obtain a complex cross-section forming article having high spot weldability and high dimensional accuracy. More specifically, a tubing material 10 having a tensile strength (TS) of 590 MPa or more is crushed by complex cross-section shape forming dies 1 and 1A each having at least one surface with a flat portion in a state in which no internal pressure is loaded or an internal pressure of 50 MPa or less is loaded to the tubing material by liquid, and an internal pressure such that the maximum internal pressure becomes higher than or equal to the following P min [MPa] is continuously loaded by the liquid so as to form the tubing material into a complex cross-section shape. P min = 0.045xTS

IPC 8 full level

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CPC (source: EP KR)

B21D 26/02 (2013.01 - KR); **B21D 26/033** (2013.01 - EP KR); **B21D 26/041** (2013.01 - EP); **B21D 51/06** (2013.01 - KR); **B21D 51/16** (2013.01 - KR)

Cited by

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