

Title (en)

HOLLOW WELDING PIN FOR ASSEMBLING TWO DIFFERENT MATERIALS

Title (de)

HOHLER SCHWEISSSTIFT ZUM VERBINDEN VON ZWEI VERSCHIEDENEN MATERIALIEN

Title (fr)

PION À SOUDER CREUX POUR ASSEMBLAGE DE DEUX MATÉRIAUX DIFFÉRENTS

Publication

EP 3986655 A1 20220427 (FR)

Application

EP 20746242 A 20200619

Priority

- FR 1906672 A 20190620
- FR 2006389 A 20200618
- FR 2020000188 W 20200619

Abstract (en)

[origin: CA3143390A1] Method for assembling a metal sheet (40) and an iron-based metal part (80), comprising a step of fitting a tubular pin (10) which is open at both ends by punching through the metal sheet (40) with a shank of the pin with the pin being retained (10) by the metal sheet, wherein a pad is detached from the first metal sheet (40) and a flange of the pin abuts against the surface of the metal sheet (40) once the through-punching has been carried out, and the elastic returns of the shank of the pin (10) and the metal sheet (40) compress the outer surface of the shank, or by overmoulding the pin in the metal sheet, and subsequently a step of welding a metal tube of the pin (10) to the iron-based metal (80) by bringing a free end (24) of the metal tube into contact with the surface of the iron-based metal part (80) by means of electric resistance welding (90).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2020254735A1

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FR 2006389 A 20200618; CA 3143390 A 20200619; EP 20746242 A 20200619; FR 1906672 A 20190620; FR 2020000188 W 20200619; MA 56530 A 20200619; MX 2021015891 A 20200619; US 202017620988 A 20200619