

Title (en)

METHOD FOR RESISTANCE SPOT WELDING OF A SANDWICH MATERIAL AND CORRESPONDING DEVICE

Title (de)

VERFAHREN ZUM WIDERSTANDSPUNKTSCHWEIßEN EINES SANDWICHMATERIALS UND VORRICHTUNG HIERFÜR

Title (fr)

PROCÉDÉ DE SOUDAGE PAR RÉSISTANCE PAR POINTS D'UN MATÉRIAU STRATIFIÉ ET DISPOSITIF ASSOCIÉ

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Application

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Priority

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Abstract (en)

[origin: WO2015193197A1] The invention relates to a method for resistance spot welding of a sandwich material which comprises a plastic core layer (1) with two metallic cover layers (2, 2'), with at least one metallic material (3), having a first electrode (4) which is applied on the surface of the metallic material and with a second electrode (5) arranged opposite and which is applied to the surface of the cover layer arranged on the side facing away from the metallic material, and the area to be welded is heated in such a way that the plastic in the area to be welded softens and, by moving the electrodes together, the softened plastic is forced out of the area to be welded, until the two cover layers contact each other, which cover layers are subsequently welded to the metallic material in the contact area by an electrical current flow across the first and second electrode. The proposed object of providing a method and a device for resistance spot welding of sandwich materials, by means of which a simple structure with a limited heat-affected zone is provided, is achieved by the features of claim 1.

IPC 8 full level

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CPC (source: EP US)

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