

Title (en)

ULTRASONIC WELDING METHOD AND PRODUCT OBTAINED WITH THE METHOD

Title (de)

ULTRASCHALLSCHWEISSVERFAHREN UND MIT DEM VERFAHREN HERGESTELLTES PRODUKT

Title (fr)

PROCÉDÉ DE SOUDAGE PAR ULTRASONS ET PRODUIT OBTENU PAR LEDIT PROCÉDÉ

Publication

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Application

EP 16740315 A 20160118

Priority

- IT VI20150013 A 20150119
- JP 2016051947 W 20160118

Abstract (en)

[origin: WO2016117708A1] An ultrasonic welding method that includes the steps of: preparing at least two members made of thermoplastic material, arranging them with respective connecting regions mutually adjacent in a substantially mated manner; transmitting an ultrasonic beam to at least one of the members at the connecting regions; simultaneously with the ultrasonic transmission, applying a pressure to the members, pressing them one against the other in order to keep the connecting regions in mutual contact. The particularity of the present invention resides in that the connecting regions include curvilinear portions that mutually mate and in that, prior to the preparation of the members, respective mutually mating welding surfaces are defined on the members; such mutually mating welding surfaces make the curvilinear portions at least partially discrete. The invention also relates to a product manufactured with the method.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XII] JP S5835296 A 19830301 - HITACHI LTD, et al
- [XI] JP 2008075626 A 20080403 - FUJITSU GENERAL LTD
- See references of WO 2016117708A1

Designated contracting state (EPC)

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