

Title (en)

METHOD FOR CONNECTING SHAPE-MEMORY MATERIAL AND STEEL OR COPPER MATERIAL

Title (de)

VERBINDUNGSTECHNIK ZWISCHEN FORMGEDÄCHTNIS-MATERIAL UND STAHL- ODER KUPFERMATERIAL

Title (fr)

TECHNIQUE D'ASSEMBLAGE D'UN MATERIAU A MEMOIRE DE FORME AVEC UN MATERIAU EN ACIER OU EN CUIVRE

Publication

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Application

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Abstract (en)

[origin: WO0198018A1] The aim of the invention is a method for connecting a component made from a shape-memory alloy to a thin component made from a steel material or a copper material. According to the invention, a spot-welding technique is provided by means of Cu alloy electrodes. The current strength applied shall be over 1000 A, preferably over 2000 A, at an  $I \cdot t$  value of over 5000 A<sup>2</sup>s, preferably over 8000 A<sup>2</sup>s, and a compression pressure of at least 30 MPa, preferably 80 MPa.

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