DESCRIPTION

Title of Invention: ~~PROCESS FOR PRODUCING STAINLESS STEEL DIFFUSION-JOINED PRODUCT~~

Technical Field

[0001]

The present invention relates to a method for producing a stainless steel diffusion-bonded product by diffusion-bonding stainless steel materials without using an insert material.

Background Art

[0002]

Diffusion bonding is one of methods for bonding together stainless steel materials, and stainless steel diffusion-bonded products assembled by diffusion bonding are applied to various uses, such as a heat exchanger, mechanical parts, parts for a fuel cell, parts for an electrical appliance, parts for a plant, members constituting a decorative article, and building materials. As methods for diffusion bonding, there are an "insert material insertion method" in which an insert material is inserted into the interface between materials to be bonded to cause solid phase diffusion or liquid phase diffusion so as to bond together the materials, and a "direct method" in which the surfaces of stainless steel

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