

Title (en)

METHOD OF WELDING SHEET-LIKE COMPONENTS TOGETHER AND WELDING JIG TO BE USED IN THE METHOD

Title (de)

VERFAHREN ZUM MITEINANDERVERSCHWEISSEN VON FLÄCHIGEN KOMPONENTEN UND BEI DEM VERFAHREN ZU VERWENDENDE SCHWEISSVORRICHTUNG

Title (fr)

PROCÉDÉ DE SOUDAGE DE COMPOSANTS DE TYPE FILM ET GABARIT DE SOUDAGE UTILISÉ DANS LE CADRE DE CE PROCÉDÉ

Publication

EP 2064024 A1 20090603 (EN)

Application

EP 07803726 A 20070829

Priority

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- FI 20065535 A 20060829

Abstract (en)

[origin: WO2008025882A1] The invention relates a method of welding together structures, consisting of sheet-like components such as bottom plates (100) and side plates (102) of casing-like structures, which are to be welded to the bottom plates. In the invention, the bottom plate and the side plates to be welded to the bottom plates are fixed, for the welding, to a separate welding jig that is made for this purpose and that is rotatable about a longitudinal rotational axis. The sheet-like components are fixed to the welding jig in such a way that their common center-of-gravity axis lies as close to the rotational axis of the welding jig as possible. Preferably, the sheet-like components are disposed substantially symmetrically relative to the rotational axis of the welding jig. In a preferred embodiment of the invention, at least two bottom plates and side plates to be welded to these bottom plates are fixed to the welding jig at a time. The bottom plates are removably fixed on opposite sides of the rotational axis of the welding jig by means of first support members (20) and the side plates are removably fixed to the welding jig by means of second and third support members (22, 24). The welding jig has heating resistors to heat the components to be welded together to a desired temperature, and it can be bearingly supported on end supports at its ends in order to rotate the welding jig about the rotational axis during the welding. In the method according to the invention, mechanized welding methods, such as submerged arc welding, are preferably used in the welding together of the bottom plates and side plates. The method according to the invention is especially suitable for welding together sheet-like components of demanding structures, such as off-shore structures.

IPC 8 full level

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Citation (search report)

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Cited by

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