

Title (en)

ZIRCONIUM-COATED STEEL PLATES AND COMPONENTS OF CHEMICAL DEVICES PRODUCED WITH SUCH PLATES

Title (de)

ZIRCONIUMBESCHICHTETE STAHLPLATTEN UND MIT DERARTIGEN PLATTEN HERGESTELLTE BAUTEILE FÜR CHEMISCHE VORRICHTUNGEN

Title (fr)

PLAQUES EN ACIER REVETUES DE ZIRCONIUM ET ELEMENTS DE DISPOSITIFS CHIMIQUES REALISES AVEC DE TELLES PLAQUES

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Application

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Abstract (en)

[origin: WO2006095093A1] The invention concerns a method for making coated assembly parts for chemical device components including the following successive steps: a) forming an initial assembly comprising a steel support part, typically a plate, a zirconium or a zirconium alloy coating, typically a sheet metal having a dimension approximately that of the steel plate, and at least one brazing material between the support part and the coating, said brazing material being an alloy including silver and copper; b) introducing the initial assembly in a brazing chamber with controlled atmosphere; c) forming a controlled atmosphere inside said chamber; d) heating said assembly up to a temperature not less than the melting temperature of said brazing material. Prior to forming said initial assembly, a titanium or titanium-based alloy coating is deposited on said zirconium (or alloy) coating and said coating is placed such that its titanium- (or alloy-) coated surface is contacted with said brazing material.

IPC 8 full level

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