

Title (en)  
METHOD FOR PRODUCING OF A PROTECTIVE LAYER ON A MARTENSITIC STEEL AND UTILISATION OF SAID STEEL COATED WITH SAID PROTECTIVE LAYER

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER SCHUTZSCHICHT AUF EINEM MARTENSITISCHEN STAHL UND VERWENDUNG DES MIT DER SCHUTZSCHICHT VERSEHENEN STAHL

Title (fr)  
PROCEDE POUR PRODUIRE UNE COUCHE PROTECTRICE SUR UN ACIER MARTENSITIQUE ET UTILISATION DE L'ACIER POURVU DE LADITE COUCHE PROTECTRICE

Publication  
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Application  
**EP 99952596 A 19991018**

Priority  
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• EP 9907881 W 19991018

Abstract (en)  
[origin: WO0031312A1] The aim of the invention is to provide a method for the production of a protective layer on a martensitic steel. This is achieved by a method comprising the following steps: a) dipping the martensitic steel into a melt consisting of aluminium or an aluminium alloy under a protective gas atmosphere; b) withdrawing the steel from the melt and cooling it to a temperature which ranges from 100 DEG C to room temperature under said protective gas atmosphere; c) hot-isostatic pressing (HIP) of said steel under a pressure of at least 1,500 bar at the austenitisation temperature; d) quenching and tempering of said steel. Said steel which has been coated with said protective layer in this manner can be used as a structural material for nuclear fusion experiments in which said steel is brought into contact with tritium and/or a liquid metal.

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IPC 8 full level  
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