

Title (en)  
METHOD FOR PRODUCING A WEAR-RESISTANT STEEL PIPE, WEAR-RESISTANT STEEL PIPE, AND USE OF SUCH A STEEL PIPE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES VERSCHLEIßFESTEN STAHLROHRS, VERSCHLEIßFESTES STAHLROHR UND VERWENDUNG EINES SOLCHEN STAHLROHRS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN TUYAU EN ACIER RÉSISTANT À L'USURE, TUYAU EN ACIER RÉSISTANT À L'USURE ET UTILISATION DE CE TYPE DE TUYAU EN ACIER

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Application  
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Abstract (en)  
[origin: WO2018210673A1] The invention is used for the large-scale production of wear-resistant steel pipes with an optimised service life. To this end, the method according to the invention comprises the following work steps: a) providing a steel sheet (2) which consists of a wear-resistant, annealable steel and is provided in a non-annealed or tempered state; b) shaping the steel sheet (2) into a tubular preform, in which two longitudinal edges of the steel sheet (2) are positioned opposite each other and delimit a welded joint between them; c) welding the longitudinal edges delimiting the welded joint to form a weld seam (3) which closes the welded joint; d) heat-treating the steel pipe (1) obtained after step c), wherein the heat treatment comprises the following steps: d.1) heating the steel pipe (1) at an average heating rate of 5-400 K/s to a holding temperature which is  $\geq$  the Ac3 temperature of the steel and is  $\leq 1100^{\circ}\text{C}$ ; d.2) holding the steel pipe (1) at the holding temperature for 1-120 s; and d.3) cooling the steel pipe (1) at an average cooling rate of 10-600 K/s to room temperature. Figures 2a-2c are intended for the abstract.

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