

Title (en)
METHOD FOR WELDING TWO EDGES OF ONE OR MORE STEEL PARTS TO EACH OTHER INCLUDING A HEAT TREATMENT STEP AFTER THE WELDING STEP: PENSTOCK OBTAINED WITH SUCH A METHOD

Title (de)
VERFAHREN ZUM VERSCHWEISSEN ZWEIER KANTEN VON EINEM ODER MEHREREN STAHLTEILEN EINSCHLIESSLICH EINES WÄRMEBEHANDLUNGSSCHRITTS NACH DEM SCHWEISSSCHRIITT: MIT SOLCH EINEM VERFAHREN HERGESTELLTE DRUCKROHRLEITUNG

Title (fr)
PROCEDE DE SOUDAGE DE DEUX BORDS D'UNE OU PLUSIEURS PIECES EN ACIER L' UN A L'AUTRE INCLUANT UNE ETAPE DE TRAITEMENT THERMIQUE POSTERIEURE A L'ETAPE DE SOUDURE : CONDUITE FORCEEE OBTENUE PAR UN TEL PROCEDE

Publication
EP 2855080 A1 20150408 (FR)

Application
EP 13728702 A 20130605

Priority
• FR 1255239 A 20120605
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Abstract (en)
[origin: WO2013182582A1] The present application describes a method (22) for welding two parts to each other, said two parts being made from steel having a high thermomechanical yield strength, said welding method (22) comprising a welding step (24) in which a weld bead is created inducing a heat-affected zone (HAZ) to appear. The method (22) also comprises a heat treatment step (28) comprising a heating step (281), during which at least one portion of the weld bead and the HAZ is gradually heated to a treatment temperature (T), then a holding step (282) in which the portion of the weld bead and the HAZ is kept at the treatment temperature (T), then a cooling step (283) in which the HAZ and the weld bead are gradually cooled and pass from the austenitic transformation end temperature to the martensitic transformation end temperature of the steel of the parts in a time (T8/5) comprised between 7.5 s and 8.5 s, and pass from the austenitic transformation end temperature to the martensitic transformation end temperature in a time (T8/4) shorter than 15.5 s. The present application also describes a penstock obtained with such a method.

IPC 8 full level
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Citation (search report)
See references of WO 2013182582A1

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