

Title (en)

METHOD FOR THE PRODUCTION OF THIN-WALLED STEEL COMPONENTS AND COMPONENTS PRODUCED THEREFROM

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DÜNNWANDIGEN BAUTEILEN AUS STAHL UND DANACH HERGESTELLTE BAUTEILE

Title (fr)

PROCEDE POUR PRODUIRE DES PIECES EN ACIER A FAIBLE EPAISSEUR DE PAROI, ET PIECES AINSI PRODUITES

Publication

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Application

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Abstract (en)

[origin: US2003029530A1] The invention relates to a method for the production of thin-walled steel components and similar components, comprising an inner core layer (B) and an external boundary layer (A). Said layers are, at least partly, differently annealed. According to the invention, the disadvantages of conventional roll-cladding and case-hardening processes may be overcome by the following methodology: bonding core and boundary layers made from differently annealed steel alloys, in a casting process to give a combined material with flat alloy gradients on the boundary surfaces, moulding the composite material to the dimensions of the thin-walled components, annealing the components by heat treatment, whereby the layers made from the differently annealed steel alloys obtain different annealing properties.

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