

Title (en)
COMBINED REGULATING SYSTEM FOR PRODUCING PARTICULAR PRODUCT CHARACTERISTICS IN THE ROLLING OF AUSTENTIC, MIXED AUSTENTIC AND FERRITIC AND FERRITIC STEEL QUALITIES

Title (de)
KOMBINIERTES REGELUNGSSYSTEM ZUR ERZEUGUNG BESTIMMTER PRODUKTEIGENSCHAFTEN BEIM WALZEN VON STAHLQUALITÄTEN IM AUSTENITISCHEN, GEMISCHT AUSTENITISCH-FERRITISCHEN UND FERRITISCHEN BEREICH

Title (fr)
SYSTEME DE REGULATION COMBINE PERMETTANT DE PRODUIRE DES PRODUITS AYANT CERTAINES PROPRIETES LORS DU LAMINAGE D'ACIER DE QUALITE AUSTENITIQUE, MIXTE AUSTENITIQUE-FERRITIQUE ET FERRITIQUE

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Abstract (en)
[origin: WO0016919A1] The invention relates to a combined regulating system for producing defined product characteristics in the rolling of austentic, mixed austentic and ferritic and ferritic steel qualities, using a measuring method to determine the roll gap of a roll pair by detecting the absolute position of the work and back-up rolls on the side facing away from the roll gap by optical position measurement. The upper edge of the top roll or the lower edge of the bottom roll is detected relative to the absolute position of the rolls, in segments over the barrel length, by means of adjacent sensors situated along the roll. The measuring results are incorporated in a suitable regulating operation that influences the geometry of the roll gap and rolled stock using a model that takes into account the influences of the deflecting and roll adjusting systems, the deflection of the rolls, flattening between the rolls, flattening between the work roll and the rolled stock and the wear and thermal crowning of the rolls. In addition to the necessary absolute thickness, the regulating operation ensures that the necessary thickness profile and the flatness criteria are produced.

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