

Title (en)
Continuous metal manufacturing method and apparatus therefor

Title (de)
Kontinuierliches Stahlherstellungsverfahren und Vorrichtung dafür

Title (fr)
Procédé et dispositif de fabrication d'acier en continu

Publication
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Application
EP 98301246 A 19980219

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Abstract (en)
The invention relates to a method for the manufacture of steel, in the form of rod, bar or strip, from the molten metal to the final rolled product comprising a casting (2) process and a rolling process coupled together with a balanced mass flow rate, wherein the rolling process includes a first rolling stage (10A,10B,10C,10D) followed by a second rolling stage (13), and wherein a temperature controlling stage is arranged between the first and second rolling stages, which comprises a first state in which it operates to prepare the steel for rolling in the austenitic phase, and an alternative second state in which the temperature controlling stage operates to prepare the steel for rolling in the ferritic phase, said temperature controlling stage being selectively operable between the first state and the second state, such that the steel passes through the same subsequent second rolling stage, correspondingly in the austenitic phase or alternatively the ferritic phase. The temperature controlling means may comprises a heat retaining means which, in the first state encloses the steel to retain heat therein, and is openable to form the second state, in which the steel is exposed to the surrounding cooling air. Alternatively, it may comprises a heat providing or retaining means (11b) and a separate heat removing or cooling means (11a) arranged either in parallel with the selected temperature control means, being arranged in-line or in series, on-line. <IMAGE>

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