Title (en)

METHOD FOR PRODUCING HIGH STRENGTH STEEL WITH GOOD DUCTILITY

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Application

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Abstract (en)

[origin: EP0179952A1] The present invention provides a method for producing hot rolled steel products having high strength and ductility. The method is particularly suitable for low alloy structural steels, which contain about 0.02 to 0.15 wt % C and 0.100 to about .015 % Nb, the higher Nb percentage being used for steels with the lower C content and vice versa. In the method, the steel is heated to a temperature of about 1150 to about 1250 DEG C. The steel is then rolled during a first sequence of passes so that the average austenite grain size at the end of the first sequence stays below about 50 mu m and so that the last pass in this sequence is conducted within the temperature range of about 950 to 1100 DEG C. In a second rolling sequence directly following the first sequence, the rolling is continued with further reductions that do not exceed about 15% in each pass. Subsequently, the steel may be cooled to ambient temperature in a conventional manner.

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