

Title (en)  
METHOD OF INCREASING THE STRENGTH OF REINFORCING STEELS

Publication  
**EP 0185341 B1 19910925 (DE)**

Application  
**EP 85116005 A 19851216**

Priority  
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Abstract (en)  
[origin: EP0185341A2] The invention aims to reduce the use of alloys for the manufacture of reinforcing steels of higher strength, in particular of ribbed reinforcing steels which are produced as rolled wire in the form of ringed bundles on continuous high-output wire mills. A process for increasing the strength, in particular the yield strength, of reinforcing steels is to be developed while simultaneously ensuring good weldability and good plastic properties. According to the invention, the rolled wire is deformed in the end phase of the hot-rolling process within a preset time by a defined change in shape (reduction in cross-section) and, immediately after the deformation, very rapidly quenched to a temperature below the austenite recrystallisation temperature, but above the Ar1 transformation temperature, so that there is a very fine or incompletely recrystallised austenite structure at the start of the gamma - alpha -transformation.

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