

Title (en)

A METHOD OF PRODUCING A ROLLED H-SHAPED STEEL HAVING UNIFORM MICROSTRUCTURE AND UNIFORM MECHANICAL PROPERTIES

Title (de)

HERSTELLUNGSVERFAHREN FÜR GEWALZTE H-PROFILSTAHL MIT GLEICHMÄSSIGER MIKROSTRUKTUR UND MECHANISCHE EIGENSCHAFTEN

Title (fr)

PROCEDE DE FABRICATION UNE PROFILE EN ACIER LAMINE EN FORME DE H A MICROSTRUCTURE UNIFORME ET PROPRIETES MECANQUES UNIFORMES

Publication

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Application

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- JP 2000296547 A 20000928
- JP 2001000695 A 20010105

Abstract (en)

[origin: EP1281777A1] The present invention relates to an H-section used as a member for building structures, and in particular, is a rolled H-section having uniform microstructures and uniform mechanical properties, and a method of producing the same, characterized in that: the microstructures satisfy any one or more of the following conditions on the basis of a 1/4 flange portion in a cross section of said H-section: 1) the deviations of the average grain sizes of ferrite in the microstructures of a 1/2 flange portion and a fillet portion from that of the 1/4 flange portion are within +/- 15% thereof, 2) the deviation of the average grain size of ferrite in the microstructure of a 1/2 web portion from that of the 1/4 flange portion is within +/- 15% thereof, 3) the deviations of the average rates of pearlite in the microstructures of a 1/2 flange portion and the fillet portion from that of the 1/4 flange portion are within +/- 8% thereof, and 4) the deviation of the average rate of pearlite in the microstructure of a 1/2 web portion from that of the 1/4 flange portion is within +/- 8% thereof. <IMAGE>

IPC 8 full level

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Cited by

CN104004957A; CN103834861A; US2021032732A1; US11041231B2; WO2006011617A1; US10463730B2; WO2008100292A2; EP2415783A1; EP2426142A2

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