

Title (en)  
METHOD FOR MANUFACTURING A HIGH-HARDNESS STEEL SHEET

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES HOCHFESTES STAHLBLECHS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE TÔLE D'ACIER À DURETÉ ÉLEVÉE

Publication  
**EP 3339464 B1 20240703 (EN)**

Application  
**EP 16839505 A 20160818**

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Abstract (en)  
[origin: EP3339464A1] The objective of one aspect of the present invention is to provide a high-hardness steel sheet and a manufacturing method, the high-hardness steel sheet having Brinell hardness of 500 HB or more by setting a steel composition according to a minimum carbon content relation (1). Another aspect of the present invention relates to, as a high-hardness steel sheet having Brinell hardness of 500 HB or more and to be manufactured by comprising a process of cooling a hot rolled steel sheet, a high-hardness steel sheet having a minimum carbon (C) content which meets the following relation (1), having a microstructure comprising 95 vol% or more of martensite phase, and having Brinell hardness of 500 HB or more; and a manufacturing method therefor. C minimum carbon C content #¥ 0.481 ## 0.104 Mn ## 0.035 Si ## 0.088 Cr ## 0.054 Ni ## 0.035 Mo ## 0.0003 C . R . (wherein Mn, Si, Cr, Ni and Mo are a value representing the content of each element by wt%, and C.R. is a value represent cooling rate during cooling a hot rolled steel sheet and the unit thereof is °C /sec)

IPC 8 full level  
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Cited by  
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