

Title (en)  
STEEL MATERIAL

Title (de)  
STAHLMATERIAL

Title (fr)  
MATÉRIAU D'ACIER

Publication  
**EP 3770291 A4 20211222 (EN)**

Application  
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Abstract (en)  
[origin: EP3770291A1] Steel according to one embodiment of the present invention has predetermined chemical components, wherein in a region where a distance  $r$  from the center of a cross-section perpendicular to the length direction satisfies  $0.7R \leq r \leq 0.9R$ , structures include ferrite and bainite, the average fraction of the ferrite is in the range of 40 to 70% in terms of area ratio, the total average fraction of the structures other than the ferrite and the bainite is 0% or more and 3% or less on average, and the balance includes bainite; and the standard deviation of a ferrite fraction in the region is 4% or less.

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)  
• [XII] US 2016060744 A1 20160303 - KUBOTA MANABU [JP], et al  
• [A] JP 4528363 B1 20100818  
• [A] JP 4050829 B2 20080220  
• See references of WO 2019182054A1

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