

Title (en)  
STRENGTH MEMBER AND MANUFACTURING METHOD THEREFOR

Title (de)  
STÄRKEELEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ÉLÉMENT DE RENFORT ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2966186 A1 20160113 (EN)**

Application  
**EP 14760929 A 20140307**

Priority  
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• JP 2014056057 W 20140307

Abstract (en)  
A strength member and a manufacturing method thereof in which settling resistance and yield strength can be substantially improved without reducing cost advantages or adding substantial process changes, is provided. A strength member comprises, by mass %, 0.5 to 0.7 % of C, 1.0 to 2.0 % of Si, 0.1 to 1.0 % of Mn, 0.1 to 1.0 % of Cr, 0.035 % or less of P, 0.035 % or less of S, and the balance of Fe and inevitable impurities, wherein an area ratio of bainite is 65 % or more, and an average dislocation density of a freely selected cross section is  $2.0 \times 10^{16} \text{ m}^{-2}$  or less.

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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