

Title (en)

STEEL MATERIAL WITH EXCELLENT CRASHWORTHINESS AND MANUFACTURING PROCESS THEREFOR

Title (de)

STAHLMATERIAL MIT AUSGEZEICHNETER BRUCHFESTIGKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU D'ACIER PRÉSENTANT UNE EXCELLENTE RÉSISTANCE AU CHOC ET PROCÉDÉ DE FABRICATION DE CE DERNIER

Publication

EP 2787098 A1 20141008 (EN)

Application

EP 12853662 A 20120614

Priority

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- JP 2012003883 W 20120614

Abstract (en)

A steel with excellent collision energy absorbability and a method for manufacturing the same are provided, wherein the energy absorbability of a collision can be enhanced. A steel with excellent collision energy absorbability, characterized in that the steel composition satisfies $C_{eq} \# \geq 0.36\%$, the structure includes a ferritic phase and a hard phase, the volume fraction of the above-described ferritic phase is 75% or more in the whole plate thickness, the hardness thereof is Hv 140 or more and 160 or less, and the average grain size thereof is 2 μm or more.

IPC 8 full level

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CPC (source: EP KR)

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