

Title (en)

SURFACE DECARBURIZATION-RESTRAINED STEEL AND MANUFACTURING METHOD THEREOF

Title (de)

STAHL MIT EINGEDÄMMTER OBERFLÄCHENENTKOHLUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ACIER À DÉCARBURATION SUPERFICIELLE LIMITÉE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

**EP 2376666 A2 20111019 (EN)**

Application

**EP 09835310 A 20091228**

Priority

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Abstract (en)

[origin: WO2010074544A2] Decarburization-restrained steel and manufacturing method thereof are disclosed. Steel includes a boron (B)-concentrated layer formed on its surface to prevent carbon of the steel from being in contact with oxygen in atmosphere to thus restrain decarburization of the steel. The steel includes a boron-concentrated layer with a thickness of 3mm or larger formed on the surface of the steel. The method of manufacturing decarburization-restrained steel includes cooling steel containing 0.001 wt% to 0.02 wt% of boron (B) at a cooling speed of 0.5?/s to 25?/s at an austenite + ferrite two-phase region.

IPC 8 full level

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