

Title (en)  
Low alloyed steel and components produced therefrom

Title (de)  
Niedrig legierter Stahl und damit hergestellte Bauteile

Title (fr)  
Acier faiblement allié et composant ainsi fabriqué

Publication  
**EP 2617855 B1 20160928 (DE)**

Application  
**EP 12198668 A 20121220**

Priority  
• DE 102012100444 A 20120119  
• DE 102012111679 A 20121130

Abstract (en)  
[origin: MX2013000620A] A low-alloyed steel, comprising about 0.3 to about 0.50 wt. % carbon, about 2.0 to about 5.0 wt. % silicon, and a remainder of iron, optionally containing low amounts of molybdenum, titanium and/or boron, with up to about 0.5 wt. % impurities. The low-alloyed steel is useful for making structural components having a tensile strength of greater than about 1000 to about 2000 MPa, a yield strength of greater than about 700 to approximately 950 MPa; a break elongation of greater than about 17% and a scaling resistance of greater than about 650° C.

IPC 8 full level  
**C22C 38/28** (2006.01); **C22C 38/22** (2006.01); **C22C 38/32** (2006.01); **C22C 38/34** (2006.01)

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**C21D 9/00** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP US);  
**C22C 38/34** (2013.01 - EP US)

Citation (examination)  
DE 19549094 A1 19970424 - HYUNDAI MOTOR CO LTD [KR]

Cited by  
DE102014010600A1; WO2017021565A1; WO2016162023A1; WO2023198394A1; WO2016008555A1; DE102015105448A1

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DOCDB simple family (publication)  
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