

Title (en)
REBAR AND PREPARATION METHOD THEREOF

Title (de)
BEWEHRUNGSSTAB UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
BARRE D'ARMATURE ET SON PROCÉDÉ DE PRÉPARATION

Publication
EP 3159424 A1 20170426 (EN)

Application
EP 14895253 A 20140627

Priority
• CN 201410273604 A 20140618
• CN 2014080994 W 20140627

Abstract (en)
The present invention relates to a steel rebar comprising the following ingredients: 0.005%-0.030% of C, 0.3%-0.6% of Si, 1.2%-2.5% of Mn, 0.01 % or less of P, 0.01 % or less of S, 8.0%-10.0% of Cr, 1.0%-3.0% of Mo, 0.2%-0.4% of Sn, 0.01 %-0.05% of Rare Earth element, and the remainder being Fe and unavoidable impurities. The present invention also provides a production method of steel rebar. The steel rebar of the present invention has excellent comprehensive mechanical properties and corrosion resistance performance, while meeting the requirements of anti-knock, the service life in sea water of the steel rebar is increased, thus it can be widely used in reinforced concrete structures in ocean environment.

IPC 8 full level
C22C 38/38 (2006.01); **C21C 1/02** (2006.01); **C21C 5/30** (2006.01); **C21C 7/06** (2006.01); **C21C 7/068** (2006.01); **C21C 7/10** (2006.01); **C21D 8/08** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/28** (2006.01)

CPC (source: EP KR US)
B22D 11/001 (2013.01 - EP US); **C21C 1/02** (2013.01 - EP KR US); **C21C 5/28** (2013.01 - EP US); **C21C 5/30** (2013.01 - EP KR US); **C21C 7/06** (2013.01 - EP KR US); **C21C 7/064** (2013.01 - EP US); **C21C 7/068** (2013.01 - EP US); **C21C 7/10** (2013.01 - EP US); **C21D 8/065** (2013.01 - EP US); **C21D 8/08** (2013.01 - EP US); **C21D 9/525** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP KR US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/18** (2013.01 - KR); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/24** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR US); **C22C 38/38** (2013.01 - EP US); **C22C 38/60** (2013.01 - KR); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US)

Cited by
CN111945079A; CN113737081A

Designated contracting state (EPC)
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)
US 2017029919 A1 20170202; CN 104018091 A 20140903; CN 104018091 B 20161123; EP 3159424 A1 20170426; EP 3159424 A4 20171115; EP 3159424 B1 20190424; KR 101828856 B1 20180213; KR 20160065192 A 20160608; WO 2015192391 A1 20151223

DOCDB simple family (application)
US 201415114287 A 20140627; CN 2014080994 W 20140627; CN 201410273604 A 20140618; EP 14895253 A 20140627; KR 20167011662 A 20140627