

Title (en)

HIGH-STRENGTH STEEL WITH EXCELLENT TOUGHNESS OF WELDING HEAT AFFECTED ZONE AND MANUFACTURING METHOD THEREOF

Title (de)

HOCHFESTER STAHL MIT AUSGEZEICHNETER ZÄHIGKEIT VON DURCH SCHWEISSEN WÄRMEBEAUFSCHLAGTEN ZONEN UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

ACIER À HAUTE RÉSISTANCE PRÉSENTANT UNE EXCELLENTE TÉNACITÉ DE ZONE AFFECTÉE PAR LA CHALEUR DE SOUDAGE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 3730644 A1 20201028 (EN)**

Application

**EP 18891918 A 20181221**

Priority

- KR 20170178934 A 20171224
- KR 2018016522 W 20181221

Abstract (en)

The present invention relates to structural steel used as a material of storage tanks, pressure vessels, building structures, ship structures, etc. and, more particularly, to steel with excellent toughness of a welding heat affected zone and a manufacturing method thereof.

IPC 8 full level

**C22C 38/04** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/18** (2006.01)

CPC (source: EP KR US)

**C21D 8/02** (2013.01 - EP); **C21D 8/0205** (2013.01 - US); **C21D 8/0226** (2013.01 - KR US); **C21D 9/0062** (2013.01 - US); **C22C 38/00** (2013.01 - EP); **C22C 38/001** (2013.01 - KR US); **C22C 38/02** (2013.01 - US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/12** (2013.01 - EP KR); **C22C 38/14** (2013.01 - EP KR US); **C22C 38/16** (2013.01 - EP KR); **C22C 38/18** (2013.01 - EP KR); **C22C 38/26** (2013.01 - US); **C22C 38/42** (2013.01 - US); **C22C 38/44** (2013.01 - US); **C22C 38/46** (2013.01 - US); **C21D 2211/001** (2013.01 - US); **C21D 2211/005** (2013.01 - KR US); **C21D 2211/008** (2013.01 - US); **C21D 2211/009** (2013.01 - KR US)

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)

**EP 3730644 A1 20201028**; **EP 3730644 A4 20201028**; **EP 3730644 B1 20240626**; CN 111542632 A 20200814; KR 101999016 B1 20190710; KR 20190077186 A 20190703; US 2020325562 A1 20201015; WO 2019125075 A1 20190627

DOCDB simple family (application)

**EP 18891918 A 20181221**; CN 201880084245 A 20181221; KR 20170178934 A 20171224; KR 2018016522 W 20181221; US 201816957454 A 20181221