

Title (en)

H-SHAPED STEEL AND METHOD FOR PRODUCING SAME

Title (de)

H-FÖRMIGER STAHL UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

POUTRE D'ACIER EN FORME DE H ET PROCÉDÉ DE PRODUCTION DE CELLE-CI

Publication

**EP 2990498 A1 20160302 (EN)**

Application

**EP 14787733 A 20140415**

Priority

- JP 2013094589 A 20130426
- JP 2014060745 W 20140415

Abstract (en)

An H-section steel has a predetermined chemical composition, an Nb content and a B content satisfy  $Nb + 125 \times B \leq 0.075\%$ , a thickness of a flange is 12 mm to 40 mm, and in a thickness center portion and 1/4 flange width portion of the flange, a metallographic structure of a cross-section perpendicular to a rolling direction contains pearlite having a distribution density of  $3.2 \times 10^{-3}$  units/ $\mu m^2$  or lower and the remainder is formed of ferrite and bainite.

IPC 8 full level

**C22C 38/00** (2006.01); **C21D 8/00** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)

**B21B 1/026** (2013.01 - US); **C21D 6/001** (2013.01 - US); **C21D 6/004** (2013.01 - US); **C21D 6/005** (2013.01 - US); **C21D 6/008** (2013.01 - US); **C21D 8/005** (2013.01 - US); **C21D 8/1222** (2013.01 - EP US); **C21D 9/0068** (2013.01 - US); **C21D 9/46** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP US); **C22C 38/16** (2013.01 - EP US); **C22C 38/42** (2013.01 - US); **C22C 38/48** (2013.01 - US); **C22C 38/50** (2013.01 - US); **C22C 38/54** (2013.01 - US); **C22C 38/58** (2013.01 - EP US); **E04C 3/06** (2013.01 - US); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/009** (2013.01 - EP US); **E04C 2003/0421** (2013.01 - US); **E04C 2003/0452** (2013.01 - US)

Citation (search report)

See references of WO 2014175122A1

Cited by

CN107790493A

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 2015361664 A1 20151217**; EP 2990498 A1 20160302; JP WO2014175122 A1 20170223; WO 2014175122 A1 20141030

DOCDB simple family (application)

**US 201414763344 A 20140415**; EP 14787733 A 20140415; JP 2014060745 W 20140415; JP 2015513696 A 20140415