

Title (en)

STEEL PLATE FOR CAP AND METHOD FOR PRODUCING SAME

Title (de)

STAHLBLECH FÜR KAPPE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER POUR COUVERCLE ET SON PROCÉDÉ DE PRODUCTION

Publication

**EP 3205739 A4 20170913 (EN)**

Application

**EP 15849457 A 20151008**

Priority

- JP 2014208696 A 20141010
- JP 2015189112 A 20150928
- JP 2015005115 W 20151008

Abstract (en)

[origin: EP3205739A1] Provided is a steel sheet for crown cap that, even when reduced in gauge, has sufficient strength and formability suitable for forming crown caps, and a method for producing the steel sheet for crown cap. The steel sheet for crown cap has a composition including, in terms of % by mass, C: 0.002% or more and 0.010% or less, Si: 0.05% or less, Mn: 0.05% or more and 0.30% or less, P: 0.030% or less, S: 0.020% or less, Al: less than 0.0100%, N: 0.0050% or less, and the balance being Fe and unavoidable impurities. The C content is more than 0.003% when the Al content is 0.005% or more. The yield strength in the rolling direction is 500 MPa or more. The average Lankford value described below is 1.3 or more.

IPC 8 full level

**C22C 38/00** (2006.01); **C21D 8/04** (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01)

CPC (source: EP KR US)

**C21D 6/005** (2013.01 - US); **C21D 8/0221** (2013.01 - KR); **C21D 8/0268** (2013.01 - KR); **C21D 8/0436** (2013.01 - EP US); **C21D 8/0468** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR US); **C21D 9/48** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP KR US); **C21D 8/0426** (2013.01 - EP US)

Citation (search report)

- [X] WO 2014135645 A2 20140912 - THYSSENKRUPP STEEL EUROPE AG [DE], et al
- [A] WO 2010113333 A1 20101007 - JFE STEEL CORP [JP], et al
- [A] WO 2011012242 A1 20110203 - CORUS STAAL BV [NL], et al
- See references of WO 2016056239A1

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US10655199B2

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 3205739 A1 20170816; EP 3205739 A4 20170913; EP 3205739 B1 20191204**; AU 2015329455 A1 20170316; AU 2015329455 B2 20180426; BR 112017007235 A2 20171212; CA 2960110 A1 20160414; CA 2960110 C 20200505; CN 106795607 A 20170531; CN 106795607 B 20180703; CO 2017003327 A2 20170831; JP 2016079505 A 20160516; JP 5958630 B2 20160802; KR 102020718 B1 20190910; KR 20170052660 A 20170512; MX 2017004584 A 20170627; NZ 729397 A 20180727; PH 12017500350 A1 20170717; TW 201619408 A 20160601; TW I565812 B 20170111; US 2017292176 A1 20171012

DOCDB simple family (application)

**EP 15849457 A 20151008**; AU 2015329455 A 20151008; BR 112017007235 A 20151008; CA 2960110 A 20151008; CN 201580054890 A 20151008; CO 2017003327 A 20170406; JP 2015189112 A 20150928; KR 20177009648 A 20151008; MX 2017004584 A 20151008; NZ 72939715 A 20151008; PH 12017500350 A 20170227; TW 104133241 A 20151008; US 201515518190 A 20151008