

Title (en)

METHOD FOR PRODUCING HIGH YIELD STRENGTH STEEL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON STAHL MIT HOHER STRECKGRENZE

Title (fr)

PROCÉDÉ DE PRODUCTION D'ACIER À HAUTE LIMITE D'ÉLASTICITÉ

Publication

EP 3481972 B1 20220907 (EN)

Application

EP 17824946 A 20170707

Priority

- US 201662359844 P 20160708
- US 201762482954 P 20170407
- US 2017041027 W 20170707

Abstract (en)

[origin: US2018010204A1] This disclosure is related to high yield strength steel where yield strength can be increased without significantly affecting ultimate tensile strength (UTS) and in some cases, higher yield strength can be obtained without significant decrease in ultimate tensile strength and total elongation.

IPC 8 full level

C22C 38/40 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/58** (2006.01); **C22C 45/02** (2006.01)

CPC (source: EP KR US)

B21B 3/02 (2013.01 - KR US); **C21D 7/02** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP KR US)

Cited by

EP3645763A4; EP3971314A1; EP3971313A1

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

DOCDB simple family (publication)

US 2018010204 A1 20180111; CA 3030322 A1 20180111; CN 109563603 A 20190402; CN 109563603 B 20211105; EP 3481972 A1 20190515; EP 3481972 A4 20200226; EP 3481972 B1 20220907; ES 2933436 T3 20230208; JP 2019524995 A 20190905; JP 7028856 B2 20220302; KR 102195866 B1 20201229; KR 20190028481 A 20190318; MX 2019000057 A 20190502; PL 3481972 T3 20230313; PT 3481972 T 20230112; WO 2018009750 A1 20180111

DOCDB simple family (application)

US 201715643679 A 20170707; CA 3030322 A 20170707; CN 201780046169 A 20170707; EP 17824946 A 20170707; ES 17824946 T 20170707; JP 2019500481 A 20170707; KR 20197003866 A 20170707; MX 2019000057 A 20170707; PL 17824946 T 20170707; PT 17824946 T 20170707; US 2017041027 W 20170707