

Title (en)  
STEEL

Title (de)  
STAHL

Title (fr)  
ACIER

Publication  
**EP 3395975 A4 20190612 (EN)**

Application  
**EP 16878770 A 20161221**

Priority  
• JP 2015253563 A 20151225  
• JP 2016088123 W 20161221

Abstract (en)  
[origin: EP3395975A1] A steel according to one aspect of the present invention contains, in unit mass%, C: 0.10% to 0.25%, Si: 0.60% to 1.20%, Mn: 0.60% to 1.00%, P: 0.040% to 0.060%, S: 0.060% to 0.100%, Cr: 0.05% to 0.20%, Bi: 0.0001% to 0.0050%, N: 0.0020% to 0.0150%, V: 0% to 0.010%, Al: 0% to 0.0050%, Ti: 0% to 0.020%, Ca: 0% to 0.005%, Zr: 0% to 0.005%, Mg: 0% to 0.005%, and a remainder including Fe and impurities.

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/24** (2006.01); **C22C 38/28** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)  
**C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/18** (2013.01 - KR); **C22C 38/24** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP KR US)

Citation (search report)  
• [A] JP 2009221590 A 20091001 - HONDA MOTOR CO LTD, et al  
• [A] JP 2004307930 A 20041104 - DAIDO STEEL CO LTD, et al  
• [A] JP H1129842 A 19990202 - SUMITOMO METAL IND  
• See references of WO 2017110883A1

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)  
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**EP 16878770 A 20161221**; CN 201680075087 A 20161221; JP 2016088123 W 20161221; JP 2017558195 A 20161221; KR 20187018228 A 20161221; US 201616062247 A 20161221