

Title (en)
STAINLESS STEEL SHEET FOR EXHAUST SYSTEM COMPONENT HAVING EXCELLENT INTERMITTENT OXIDATION CHARACTERISTICS,
AND EXHAUST SYSTEM COMPONENT

Title (de)
EDELSTAHLBLECH FÜR ABGASSYSTEMKOMPONENTE MIT HERVORRAGENDEN INTERMITTIERENDEN OXIDATIONSEIGENSCHAFTEN
UND ABGASSYSTEMKOMPONENTE

Title (fr)
FEUILLE D'ACIER INOXYDABLE POUR COMPOSANT DE SYSTÈME D'ÉCHAPPEMENT PRÉSENTANT D'EXCELLENTE
CARACTÉRISTIQUES D'OXYDATION INTERMITTENTE, ET COMPOSANT DE SYSTÈME D'ÉCHAPPEMENT

Publication
EP 3279359 A1 20180207 (EN)

Application
EP 16772892 A 20160329

Priority
• JP 2015073417 A 20150331
• JP 2016060249 W 20160329

Abstract (en)
A stainless steel sheet free of surface flaws, having an enhanced high temperature strength and corrosion resistance, not becoming brittle at a high temperature, and further exhibiting a high oxidation resistance enabling it to be suitably used as an inside pipe of a double pipe of an exhaust manifold, a turbocharger part, and other automobile exhaust system parts, which stainless steel sheet has a predetermined composition of chemical components and satisfies Cr+20Mo#¥24.0%, and Si+20C+15N#¥5.8%. Further, an automobile exhaust system part, excellent in both the oxidation resistances of the base material and weld zone using the above stainless steel sheet, having a gradient of change of sheet thickness between the weld metal and the base material of the above stainless steel sheet of 15 degrees or less.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C22C 38/58** (2006.01); **F01N 13/16** (2010.01)

CPC (source: EP KR US)
C21D 6/004 (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US);
C21D 8/0263 (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US);
C22C 38/002 (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/34** (2013.01 - KR);
C22C 38/42 (2013.01 - EP US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - EP KR US); **C22C 38/48** (2013.01 - EP US);
C22C 38/50 (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP KR US); **F01N 3/106** (2013.01 - US);
F01N 3/2803 (2013.01 - US); **F01N 13/16** (2013.01 - EP KR US); **F01N 2330/40** (2013.01 - US); **F01N 2370/02** (2013.01 - 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 3279359 A1 20180207; **EP 3279359 A4 20180822**; **EP 3279359 B1 20210721**; CN 107429358 A 20171201; CN 107429358 B 20191213;
ES 2890333 T3 20220118; JP 6239192 B2 20171129; JP WO2016159011 A1 20170831; KR 101988150 B1 20190611;
KR 20170123647 A 20171108; PL 3279359 T3 20211227; US 2018080106 A1 20180322; WO 2016159011 A1 20161006

DOCDB simple family (application)
EP 16772892 A 20160329; CN 201680018828 A 20160329; ES 16772892 T 20160329; JP 2016060249 W 20160329;
JP 2017510057 A 20160329; KR 20177026809 A 20160329; PL 16772892 T 20160329; US 201615563159 A 20160329