

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'EXCELLENTES CARACTÉRISTIQUES D'OXYDATION INTERMITTENTE, ET COMPOSANT DE SYSTÈME D'ÉCHAPPEMENT

Publication

**EP 3279359 A4 20180822 (EN)**

Application

**EP 16772892 A 20160329**

Priority

- JP 2015073417 A 20150331
- JP 2016060249 W 20160329

Abstract (en)

[origin: EP3279359A1] 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#Y24.0%, and Si+20C+15N#Y5.8%. 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

**C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/06** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01); **F01N 3/10** (2006.01); **F01N 3/28** (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)

Citation (search report)

- [XY] WO 2014157655 A1 20141002 - NIPPON STEEL & SUMIKIN SST [JP]
- [YA] JP 2013226600 A 20131107 - NIPPON STEEL & SUMITOMO METAL CORP
- [A] JP H0987809 A 19970331 - KAWASAKI STEEL CO
- [A] JP 2003171745 A 20030620 - SUMITOMO METAL IND
- [A] JP H10225792 A 19980825 - NIPPON STEEL CORP
- See references of WO 2016159011A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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