

Title (en)
NON-MAGNETIC AUSTENITIC STAINLESS STEEL HAVING IMPROVED STRENGTH AND SURFACE CONDUCTIVITY

Title (de)
NICHTMAGNETISCHER AUSTENITISCHER EDELSTAHL MIT VERBESSERTER FESTIGKEIT UND OBERFLÄCHENLEITFÄHIGKEIT

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE NON MAGNÉTIQUE AYANT UNE RÉSISTANCE ET UNE CONDUCTIVITÉ DE SURFACE AMÉLIORÉES

Publication
EP 3705595 A4 20200909 (EN)

Application
EP 18890862 A 20181005

Priority

- KR 20170176559 A 20171220
- KR 2018011762 W 20181005

Abstract (en)
[origin: EP3705595A1] Disclosed is a non-magnetic austenitic stainless steel with improved strength and surface conductivity. An austenitic stainless steel according to an embodiment of the present disclosure includes, in percent (%) by weight of the entire composition, C: 0.07 to 0.2%, N: 0.15 to 0.4%, Si: 0.8 to 2%, Mn: 16 to 22%, S: 0.01% or less (excluding 0), Cr: 12.5 to 20%, Cu: 1 to 3%, the remainder of iron (Fe) and other inevitable impurities, and satisfies the following equation (1). $Ni + 0.65Cr + 1.05Mn + 0.35Si + 12.6C + 33.6N \geq 40Ni$, Cr, Mn, Si, C, N are % by weight of each element.

IPC 8 full level
C22C 38/38 (2006.01); **C21D 6/00** (2006.01); **C21D 7/02** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/20** (2006.01); **C22C 38/34** (2006.01)

CPC (source: EP KR US)
C21D 6/00 (2013.01 - EP); **C21D 6/002** (2013.01 - EP); **C21D 6/005** (2013.01 - EP); **C21D 7/02** (2013.01 - EP KR US); **C21D 8/02** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP); **C22C 38/00** (2013.01 - EP); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - US); **C22C 38/20** (2013.01 - EP KR US); **C22C 38/34** (2013.01 - EP); **C22C 38/38** (2013.01 - EP KR); **C21D 2211/001** (2013.01 - KR US); **C21D 2211/005** (2013.01 - US)

Citation (search report)

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Designated contracting state (EPC)
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