

Title (en)
AUSTENITIC STAINLESS STEEL

Title (de)
AUSTENITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE

Publication
EP 3495526 A4 20200108 (EN)

Application
EP 17837044 A 20170802

Priority
• JP 2016152690 A 20160803
• JP 2017028146 W 20170802

Abstract (en)
[origin: EP3495526A1] An austenitic stainless steel includes base metal and a coating film formed on at least part of a surface of the base metal, a chemical composition of the base metal containing, in mass percent: C: 0.05% or less; Si: 1.0% or less; Mn: 2.0% or less; P: 0.040% or less; S: 0.010% or less; O: 0.020% or less; N: less than 0.050%; Ni: 12.0 to 27.0%; Cr: 15.0% or more to less than 20.0%; Cu: more than 3.5% to 8.0% or less; Mo: more than 2.0% to 5.0% or less; Co: 0.05% or less; Sn: 0.05% or less, V: 0 to 0.5%, Nb: 0 to 1.0%, Ti: 0 to 0.5%, W: 0 to 5.0%, Zr: 0 to 1.0%, Al: 0 to 0.5%, Ca: 0 to 0.01%, B: 0 to 0.01%, REM: 0 to 0.01%, and the balance: Fe and impurities, wherein a chemical composition at a maximum-Cr depth where a concentration of Cr in the coating film reaches a maximum satisfies, in at%, $[(Cr + Ni + Cu + Mo) / Fe \geq 1.0]$.

IPC 8 full level
C21D 1/76 (2006.01); **C21D 6/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
• [I] EP 0971045 A1 20000112 - SUMITOMO METAL IND [JP]
• [A] EP 0155011 A2 19850918 - INCO ALLOYS INT [US]
• See references of WO 2018025942A1

Designated contracting state (EPC)
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