

Title (en)

ALUMINUM-PLATED STAINLESS STEEL SHEET WITH EXCELLENT HIGH-TEMPERATURE OXIDATION RESISTANCE

Title (de)

ALUMINIUM PLATTIERTES ROSTFREIES STAHLBLECH MIT HERVORRAGENDER HOCHTEMPERATUROXIDATIONSBESTÄNDIGKEIT

Title (fr)

TOLE D'ACIER INOXYDABLE PLAQUEE D'ALUMINIUM PRESENTANT UNE EXCELLENTE RESISTANCE A L'OXYDATION A HAUTE TEMPERATURE

Publication

**EP 0688882 A4 19960327 (EN)**

Application

**EP 95903983 A 19941227**

Priority

- JP 9402245 W 19941227
- JP 34903193 A 19931228

Abstract (en)

[origin: WO9518241A1] An aluminum-plated stainless steel sheet with an excellent high-temperature oxidation resistance, produced by plating with aluminum or an aluminum-base alloy a ferritic stainless steel sheet comprising on the weight basis at most 0.05 % of carbon, at most 1.0 % of silicon, at most 1.0 % of manganese, 10-30 % of chromium, at most 0.05 % of nitrogen, 0.1-4.0 % of molybdenum, and 0.01-2.2 % in total of one or more elements selected from the group consisting of rare earth elements and yttrium, further containing, as the case may be, (% C + % N)X4-0.8 % in total of one or more elements selected from the group consisting of titanium, niobium, vanadium and zirconium, further containing, if necessary, at most 6.0 % of aluminum, and the balance consisting of iron and inevitable impurities.

IPC 1-7

**C22C 38/22**; **C22C 38/28**

IPC 8 full level

**C22C 38/22** (2006.01); **C22C 38/28** (2006.01)

CPC (source: EP)

**C22C 38/22** (2013.01); **C22C 38/28** (2013.01)

Citation (search report)

- [Y] EP 0516267 A1 19921202 - NISSHIN STEEL CO LTD [JP]
- [Y] EP 0435003 A1 19910703 - NIPPON STEEL CORP [JP]
- [Y] EP 0573343 A1 19931208 - SUMITOMO METAL IND [JP]
- [A] SU 515825 A1 19760530
- See references of WO 9518241A1

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US2022056547A1; FR2807069A1; US6582835B2; WO0008223A1; WO2005024093A1; WO2009045136A1; US8597438B2; WO2005080622A1

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