

Title (en)
PROCESS FOR FORMING PASSIVE FILM ON STAINLESS STEEL, AND STAINLESS STEEL AND GAS- AND LIQUID-CONTACTING PART.

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER PASSIVSCHICHT AUF STAHL UND DER VERBINDUNGSSTELLE VON ROSTFREIEM STAHL UND FLÜSSIGKEIT UND GA.

Title (fr)
PROCEDE DE FORMATION D'UN FILM PASSIF SUR L'ACIER INOXYDABLE, ET ELEMENT ENTRANT EN CONTACT AVEC LES GAZ, LES LIQUIDES ET L'ACIER INOXYDABLE.

Publication
EP 0596121 A4 19941123 (EN)

Application
EP 92917389 A 19920528

Priority

- JP 9200699 W 19920528
- JP 15246691 A 19910528
- JP 19871891 A 19910712
- JP 21259291 A 19910730

Abstract (en)
[origin: WO9221786A1] A process for forming a passive film excellent in degasifiability and corrosion resistance by making the film extremely flat and dense. The process comprises subjecting the surface of stainless steel to electrolytic polishing, oxidation in an oxidative atmosphere and removal of iron oxide formed thereon by reduction with hydrogen.

IPC 1-7
C23C 8/14; **C23C 8/80**; **C21D 6/00**

IPC 8 full level
C21D 1/76 (2006.01); **C21D 6/00** (2006.01); **C23C 8/02** (2006.01); **C23C 8/14** (2006.01); **C23C 8/80** (2006.01); **C23C 22/00** (2006.01); **C25F 3/06** (2006.01); **C21D 1/74** (2006.01)

CPC (source: EP)
C21D 6/002 (2013.01); **C23C 8/02** (2013.01); **C23C 8/80** (2013.01); **C21D 1/74** (2013.01)

Citation (search report)

- [A] EP 0294558 A1 19881214 - SHINKO PFAUDLER [JP]
- [A] EP 0173564 A1 19860305 - SHINKO PFAUDLER [JP]
- [A] US 4078949 A 19780314 - BOGGS WILLIAM E, et al
- [A] DE 1278804 B 19680926 - OWENS ILLINOIS INC
- [A] EP 0327831 A2 19890816 - THYSEN EDELSTAHLWERKE AG [DE]
- [A] EP 0388710 A1 19900926 - MITSUBISHI MOTORS CORP [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 382 (C - 749)<4325> 17 August 1990 (1990-08-17)
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 302 (C - 616)<3650> 12 July 1989 (1989-07-12)
- See references of WO 9221786A1

Cited by
US5911841A; EP1043421A3; CN112449658A; CN104160056A; US2018298477A1; CN104160057A; EP2824206A4; US6174610B1; US10774396B2; US8037928B2; US8211548B2; US8286695B2; US8465599B2; US8470097B2

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DOCDB simple family (publication)
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DOCDB simple family (application)
JP 9200699 W 19920528; EP 92917389 A 19920528; JP 21259291 A 19910730; JP 51015992 A 19920528