

Title (en)  
Electrode for use in electrolytic processes and process for manufacturing it.

Title (de)  
Elektrode für elektrolytische Verfahren und Verfahren zur Herstellung der Elektrode.

Title (fr)  
Electrode pour procédés électrolytiques et sa fabrication.

Publication  
**EP 0407349 B1 19950517 (EN)**

Application  
**EP 90810492 A 19900628**

Priority  
US 37442989 A 19890630

Abstract (en)  
[origin: EP0407349A2] A metal surface is now described having enhanced adhesion of subsequently applied coatings. The substrate metal of the article, such as a valve metal as represented by titanium, is provided with a highly desirable surface characteristic for subsequent coating application. This can be initiated by selection of a metal of desirable metallurgy and heat history, including prior heat treatment to provide surface grain boundaries which may be most readily etched. In subsequent etching operation, the surface is made to exhibit well defined, three dimensional grains with deep grain boundaries. Subsequently applied coatings, by penetrating into the etched intergranular valleys, are desirably locked onto the metal substrate surface and provide enhanced lifetime even in rugged commercial environments.

IPC 1-7  
**C23F 1/00**; **C25D 17/10**; **C25B 11/10**

IPC 8 full level  
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CPC (source: EP KR)  
**C23C 4/02** (2013.01 - EP); **C23C 4/06** (2013.01 - EP); **C23C 8/02** (2013.01 - EP); **C23C 26/00** (2013.01 - EP); **C23F 1/00** (2013.01 - EP); **C23F 1/26** (2013.01 - EP); **C25B 11/00** (2013.01 - EP); **C25C 7/02** (2013.01 - EP); **C25D 17/10** (2013.01 - EP); **C25F 3/00** (2013.01 - KR)

Citation (examination)  
US 4068025 A 19780110 - SAHM PETER

Cited by  
CN113521384A; US5324407A; CN113755902A; EP0633327A1; EP0493326A3; CN100429332C; EP0576402A1; AU657248B2; EP2851453A1; CN104451764A; US2023092781A1; US9683300B2; WO9717478A1; WO2007045716A1; EP1162288A1

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AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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