

Title (en)  
ELECTROLYTE FOR PRODUCING THIN BLACK CONVERSION LAYERS ON LIGHT METALS

Publication  
**EP 0462073 A3 19930120 (DE)**

Application  
**EP 91810453 A 19910613**

Priority  
DD 34163790 A 19900614

Abstract (en)  
[origin: EP0462073A2] The invention relates to an ammonia-, cyanide- and fluoride-free, and consequently environmentally acceptable electrolyte which is low in pollutants and which makes it possible to produce optically black layers on light metals or their alloys with a layer thickness of < 10  $\mu$  m and with almost identical optical absorptivity and thermal emissivity by means of ANOF processes. Compared with the hitherto known conversion layers obtained by the ANOF process, these layers have a substantially lower roughness number and consequently a lower particle generation. The use of the electrolyte in the ANOF process consequently provides a version of the coating method, in particular, for constructional parts or assemblies of complicated shape whose dimensional accuracy is subject to high requirements.

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IPC 8 full level  
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**C25D 11/026** (2013.01 - EP US); **C25D 11/04** (2013.01 - EP US); **C25D 11/14** (2013.01 - EP US)

Citation (search report)  
[A] METALLOBERFLÄCHE Bd. 40, Nr. 12, Dezember 1986, Seiten 539 - 540 KURZE 'beschichten durch anodische oxidation unter funkenentladungen (anof)'

Cited by  
CN103088387A; CN1034522C; DE102008026558A1; DE102008026557A1; WO9633300A1

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