

Title (en)

Apparatus for anodising aluminium alloy pistons used in internal combustion engines.

Title (de)

Vorrichtung zur Anodisierung von Kolben aus Aluminiumlegierungen, die in Verbrennungsmotoren verwendet werden.

Title (fr)

Dispositif de traitement par anodisation de pistons en alliage d'aluminium utilisés dans les moteurs à combustion interne.

Publication

EP 0402287 A1 19901212 (FR)

Application

EP 90420272 A 19900605

Priority

FR 8908138 A 19890607

Abstract (en)

Apparatus for anodising aluminium alloy pistons employed in internal combustion engines. <??>This apparatus, where the said piston (1) is connected to the positive pole (3) of a source of direct current, is characterised in that its side surface is equipped, along a directrix situated near the head of a baffle (4) made of electrically insulating material whose surface, on the head side, is placed facing an electrode connected to the negative pole of the said source and pierced by at least one opening (8) permitting the passage of a controlled flow of anodising electrolyte (9) directed towards the head. <??>This device finds its application in the production, at a high rate and without recourse to the use of masks or of treatments other than the anodising, of barrier layers limited to the piston heads and which prevent the development of thermal stresses which are detrimental to the proper functioning of the said piston. <IMAGE>

IPC 1-7

C25D 11/04; **C25D 17/00**

IPC 8 full level

F02F 3/00 (2006.01); **C25D 11/04** (2006.01); **C25D 17/00** (2006.01); **F02F 3/10** (2006.01); **F16J 1/01** (2006.01)

CPC (source: EP KR US)

C25D 11/005 (2013.01 - EP US); **C25D 11/02** (2013.01 - KR); **C25D 11/04** (2013.01 - EP US); **C25D 17/008** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US)

Citation (search report)

- [X] GB 727406 A 19550330 - GLACIER CO LTD
- [X] EP 0232211 A1 19870812 - CEGEDUR [FR]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0402287 A1 19901212; **EP 0402287 B1 19930922**; AT E94917 T1 19931015; AU 5680490 A 19901213; AU 622377 B2 19920402; BR 9002666 A 19910820; CA 2018288 A1 19901207; DD 298005 B5 19940707; DE 69003456 D1 19931028; DE 69003456 T2 19940120; ES 2044511 T3 19940101; FI 902832 A0 19900606; FR 2648187 A1 19901214; FR 2648187 B1 19940415; IS 3581 A7 19901208; JP H0394099 A 19910418; JP H0514796 B2 19930225; KR 910001092 A 19910130; NO 902507 D0 19900606; NO 902507 L 19901210; PT 94280 A 19911231; US 5032244 A 19910716

DOCDB simple family (application)

EP 90420272 A 19900605; AT 90420272 T 19900605; AU 5680490 A 19900605; BR 9002666 A 19900605; CA 2018288 A 19900605; DD 34137390 A 19900606; DE 69003456 T 19900605; ES 90420272 T 19900605; FI 902832 A 19900606; FR 8908138 A 19890607; IS 3581 A 19900531; JP 14604390 A 19900604; KR 900008308 A 19900607; NO 902507 A 19900606; PT 9428090 A 19900606; US 52854490 A 19900525