

Title (en)  
IMPROVED ALUMINIUM PRODUCTS AND ARTICLES

Title (de)  
VERBESSERTE AUS ALUMINUM HERGESTELLE KÖRPER

Title (fr)  
PRODUITS ET ARTICLE EN ALUMINIUM AMELIORES

Publication  
**EP 1202831 A1 20020508 (EN)**

Application  
**EP 00948125 A 20000714**

Priority  
• GB 0002704 W 20000714  
• GB 9916573 A 19990715

Abstract (en)  
[origin: WO0105546A1] A downhole tool or other product (P) made essentially of aluminium base material is provided with a hard-faced surface comprised by geometric elements or rough particles (2a) of hard material. Filler material (3) serving to secure the elements/particles to the surface is applied by gas-shielded metal arc welding (e.g. TIG welding) in pulsed mode, so as to fill in the spaces between the elements/particles. In this way, substantial hard-facing can be applied to aluminium articles, where conventional hitherto only steel articles have been susceptible to substantial hard-facing.

IPC 1-7  
**B23K 9/04**

IPC 8 full level  
**B23K 9/04** (2006.01)

CPC (source: EP)  
**B23K 9/04** (2013.01); **B23K 2103/10** (2018.07)

Citation (search report)  
See references of WO 0105546A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0105546 A1 20010125**; AU 6169600 A 20010205; EP 1202831 A1 20020508; GB 9916573 D0 19990915

DOCDB simple family (application)  
**GB 0002704 W 20000714**; AU 6169600 A 20000714; EP 00948125 A 20000714; GB 9916573 A 19990715