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(11) **EP 1 716 948 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
20.12.2006 Bulletin 2006/51

(51) Int Cl.:
B22F 7/08 ^(2006.01) **B22F 7/04** ^(2006.01)
E21B 10/573 ^(2006.01)

(43) Date of publication A2:
02.11.2006 Bulletin 2006/44

(21) Application number: **06251484.9**

(22) Date of filing: **21.03.2006**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**
Designated Extension States:
AL BA HR MK YU

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(30) Priority: **26.04.2005 US 908040**

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(54) **Composite structure having a non-planar interface and method of making same**

(57) A composite structure includes a first portion comprising a first metallic material, a monolayer of particles extending into and bonded with the first portion, and a second portion comprising a second material, the second portion bonded with the monolayer of particles and extending into interstices between the particles. A

method for fabricating a composite structure includes bonding a monolayer of particles to a first portion comprising a first metallic material, such that the monolayer of particles extends into the first portion and bonding a second portion comprising a second material to the monolayer of particles, such that the second portion extends into interstices between the particles.

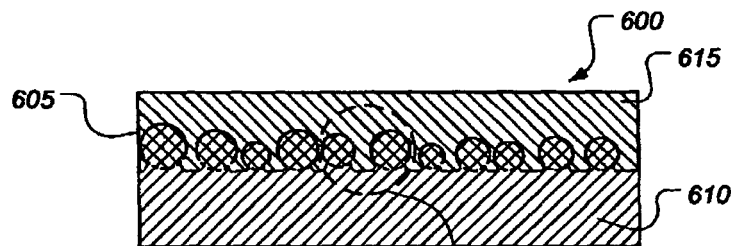


FIG. 6 **FIGS. 7, 11**

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EUROPEAN SEARCH REPORT

Application Number
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Place of search Munich		Date of completion of the search 9 November 2006	Examiner Catana, Cosmin
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EPO FORM 1503 03 82 (P04C01)



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