BIOCERAMIC AND BIOPOLYMER COMPOSITE

FIG. 1

The invention provides a high performance porous bioceramic composite that has a high compression strength resulting from the ability to compression form a bioceramic precursor material and a pore forming agent under a high pressure load prior to sintering and/or removing the pore forming agent. Methods of making and using the same are also provided. Optionally, a biopolymer and/or therapeutic agent may be infused into the pores thereby forming the bioceramic composite.
A. CLASSIFICATION OF SUBJECT MATTER

A61L 27/12(2006.01)i, A61L 27/14(2006.01)i, A61L 27/54(2006.01)i, A61K 6/033(2006.01)i, A61K 6/08(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61L 27/12; A61L 22/28; A61K 6/06; A61L 27/28; A61L 27/32; C01B 25/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models since 1975.
Japanese utility models and applications for utility models since 1975.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: , ,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search 13 JANUARY 2010 (13.01.2010)

Date of mailing of the international search report 14 JANUARY 2010 (14.01.2010)

Authorized officer
Noh Dae Hyun

Facsimile No. 82-42-472-7140
**INTERNATIONAL SEARCH REPORT**

**Box No. II  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.: 
   because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.: 
   because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ✗ Claims Nos.: 4-15, 19-21
   because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:

**Remark on Protest**

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2))  (July 2008)
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Form PCT/ISA/210 (patent family annex) (July 2008)