Title: CALCIUM PHOSPHATE DELIVERY VEHICLES FOR OSTEOINDUCTIVE PROTEINS

Abstract: A composition for treating a mammal having a bone defect. The composition comprises an osteogenic protein, a calcium phosphate material as a carrier, and an effective amount of an effervescent agent. Methods of making the compositions and methods of using the osteogenic compositions to treat osteoporotic and/or osteopenic bone are also disclosed.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8): A61K 51/70, 58/06, 58/14, 53/42, 58/00
US CL. 424/609, 678, 692; 514/2, 23

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)
U.S.: 424/609, 678, 692; 514/2, 23

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 5,492,697 A (BOYAN et al.) 20 February 1996 (20.02.96), see the entire document.</td>
<td>1-8 and 21-38</td>
</tr>
<tr>
<td>A</td>
<td>US 6,077,076 A (COMFORT) 20 June 2000 (20.06.00), see the entire document.</td>
<td>1-8 and 21-38</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search: 16 SEPTEMBER 2002
Date of mailing of the international search report: 17 DEC 2002

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 808-8230

Name of the official performing the international search: [Signature]
Name of the person in charge of the international search: RAYMOND J. HENLEY III
Telephone No. (703) 808-1285

Form PCT/ISA/210 (second sheet) (July 1998)*
INTERNATIONAL SEARCH REPORT

Box I  Observations where certain claims were found unscaurchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(9)(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.: 9-20 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 8.4(a).

Box II  Observations where unity of invention is lacking (Continuation of item 2 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.

□ No protest accompanied the payment of additional search fees.