METHODS FOR USING DENTAL COMPOSITIONS CONTAINING FLUORESCENT AGENTS

A method of applying a dental composition to tooth surfaces is provided. The dental composition, comprising polymerizable resin and fluorescing compound, is applied to a tooth surface and cured so that it hardens. The composition is preferably used as a dental sealant that provides a hard, glossy surface finish over a tooth. Upon irradiating the sealant with ultraviolet light, the sealant exhibits a bright fluorescent glow. The sealant reverts immediately to its natural color when it is no longer exposed to the ultraviolet light.
## INTERNATIONAL SEARCH REPORT

**International application No**

PCT/US2006/038402

### A. CLASSIFICATION OF SUBJECT MATTER

**INv. A61K6/083**

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)

A61K

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 practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<td>DE 200 12 90I U1 (BOHLEN FRANK [DE]; KERN MATTHIAS [DE]) 4 January 2001 (2001-01-04) the whole document</td>
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<td>X</td>
<td>US 5 102 461 A (RHEINBERGER VOLKER [LI] ET AL) 7 April 1992 (1992-04-07) cited in the application column 1, line 56 - column 4, line 44 examples claims</td>
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Further documents are listed in the continuation of Box C

See patent family annex

Special categories of cited documents

- **A** document defining the general state of the art which is not considered to be of particular relevance
- **E** earlier document but published on or after the international filing date
- **L** document which may throw doubts on novelty claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- **O** document referring to an oral disclosure, use exhibition or other means
- **P** document published prior to the international filing date but later than the priority date claimed

- **F** later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- **X** document of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- **Y** document of particular relevance the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- **R** document member of the same patent family

**Date of the actual completion of the international search**

8 February 2008

**Date of mailing of the international search report**

15/02/2008

**Name and mailing address of the ISA/ European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV RHEINESK Tel (+31-70) 340-2040 Tx 31 651 epc nl, Fax (+31-70) 340-3016**

Authorized officer

Thornton, Steven
<table>
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<td>X</td>
<td>GB 1 428 672 A (AMALGAMATED DENTAL CO LTD) 17 March 1976 (1976-03-17) page 2, line 34 - line 76 examples</td>
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Especially claim 12; claims
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.**
   - Because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

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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 additional fees.

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.
Continuation of Box II.1

Although claims 1-10 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.

Continuation of Box II.1

Claims Nos.:

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
### INTERNATIONAL SEARCH REPORT

**Information on patent family members**

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