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(71) Applicant (for all designated States except US): **RE-JUVEDENT, LLC** [US/US]; Suite 16, 150 Quincy Shore Drive, Quincy, MA 02171 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BELIKOV, Andrei, V.** [RU/RU]; 141/86 Narodnogo Opolcheniya Avenue, St. Petersburg, 198217 (RU). **ALTSHULER, Gregory** [US/US]; 17 Cerulean Way, Lincoln, MA 01773 (US).

(74) Agent: **ELISEEVA, Maria, M.**; Houston Eliseeva LLP, 4 Militia Drive, Suite 4, Lexington, Massachusetts 02421 (US).

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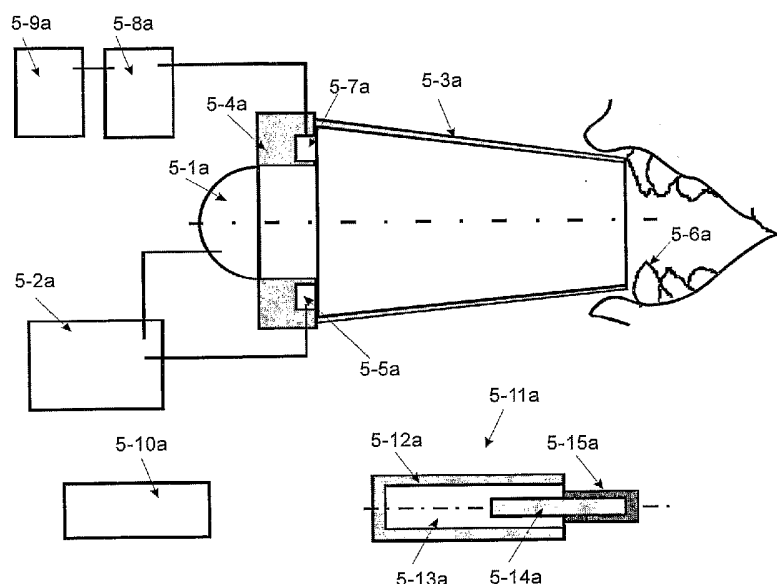
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(54) Title: METHOD AND APPARATUS FOR TOOTH REJUVENATION



(57) Abstract: The present invention is a number of methods and devices for tooth rejuvenation and hard tissue modification comprising applying a layer of a peroxide-free composition to a tooth surface. The applied composition comprises an aqueous solution of one or more edible acids. The composition has a pH selected from the range of about 0.5 to 5. After the treatment the composition is removed from the tooth surface. In various embodiments of the invention the pH of the composition can range between about 0.5 and 3, a narrower range being between 1 and 1.75. Hard tissue rejuvenation comprises forming a post-treatment layer having a composition which is different from that of the hard tissue of the hard tissue by selectively heating a porous layer on the hard tissue.



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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,309,625 B1 (JENSEN et al) 30 October 2001 (30.10.2001), column 2, lines 41-49;column 8, lines 48-51;column 9, lines 40-44&49-52 & Figures 1&5.	1-4,9-11,16,21-22,26-28,30,32-34,38-39,41-42,49-51,53-55,68-74,86,88,98,100,114-115,117-118 ----- 40
X --- Y	US 2002/0058231 A1 (FRIEDMAN) 16 May 2002 (16.05.2002), [0006]-[0012]	43,49-50,52,56-61,104-107,110,113 ----- 40
A	US 2002/0072030 A1 (DAVIS) 13 June 2002 (13.06.2002), entire document.	1-118



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Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Kevin Shaver

Telephone No. (571) 272-4714

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004/0116511 A1 (MALIK) 17 June 2004 (17.06.2004), entire document.	1-118