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(54) Title: RESIN REINFORCED ZINC POLYCARBOXYLATE TEMPORARY CEMENT COMPOSITIONS AND RELATED KITS AND METHODS

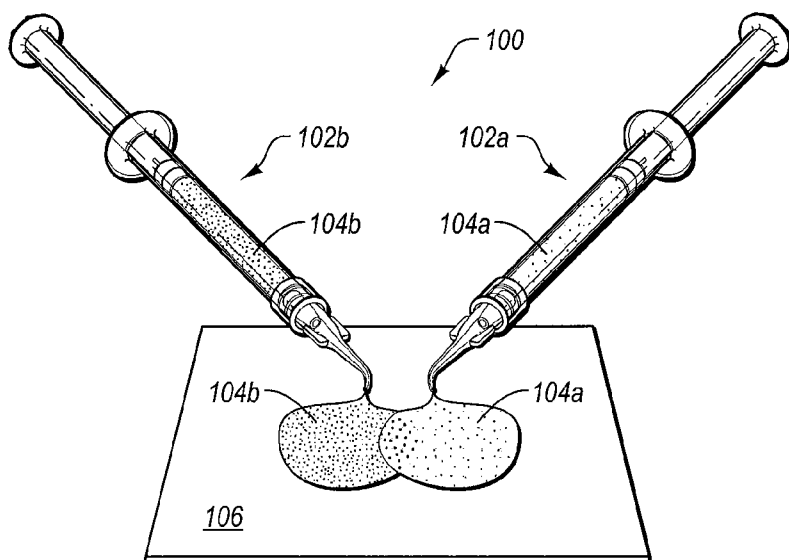


Fig. 1A

(57) Abstract: Two-part resin-reinforced cement compositions, kits, and related methods are used for bonding a dental prosthetic appliance to a tooth. A first part (104a) includes an amine activator component and a zinc oxide reactive filler, while a second part (104b) includes a polymerization initiator (e.g., benzoyl peroxide) and a polymerizable component having a structure including at least one acrylate or methacrylate group at one end and a carboxylic acid group at another end. A temporary cement composition advantageously exhibits reduced compressive and/or bonding strength relative to permanent cement compositions, which provides sufficient strength to facilitate normal use of the teeth while the provisional appliance is in use, while also facilitating easy removal of the provisional appliance for replacement with a permanent appliance at a later time.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/54666

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 9/14; A61K 33/40 (2008.04)

USPC - 424/486; 424/614

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)

USPC- 424/486; 424/614

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC- 424/602

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

PubWEST(USPT,PGPB,EPAB,JPAB); Google: cement; dent\$; activat\$; zinc oxide; less than 3 Mpa; carboxyl\$; acrylate; methacrylate; amine; polymer\$; resin; non-reactive; filler\$; dental prosthetic; permanent restoration; temporary

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,166,651 B2 (Qian) 23 Jan 2007 (23.01.2007); col 2-10, 15-16; Claims 1, 3, 5, 6; Abstract	1-13, 16-30
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Y		14, 15, 31, 32
Y	US 2006/0035997 A1 (Orlowski, et. al.) 16 Feb 2006 (16.02.2006); para [0014], [0041]	14, 15, 31, 32

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"&" document member of the same patent family

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