

United States Patent [19]
Alpert

[11] **Patent Number:** **5,997,302**
[45] **Date of Patent:** ***Dec. 7, 1999**

[54] **METHOD FOR THE FORMATION OF DENTAL RESTORATIONS FROM CONDENSABLE COMPOSITES**

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[75] Inventor: **Bruce Alpert**, Madison, Conn.

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[73] Assignee: **Jeneric Pentron Incorporated**, Wallingford, Conn.

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[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

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[21] Appl. No.: **09/023,643**

Primary Examiner—John J. Wilson

Assistant Examiner—Pedro Philogene

[22] Filed: **Feb. 13, 1998**

Attorney, Agent, or Firm—Cantor Colburn LLP

Related U.S. Application Data

[60] Provisional application No. 60/066,799, Nov. 26, 1997.

[57] **ABSTRACT**

[51] **Int. Cl.⁶** **A61C 5/10**

A method and kit is presented, wherein a prepared tooth cavity is etched; treated with a primer/adhesive which is cured; treated with a flowable composite and cured; and then filled with a condensable composite, using techniques and instruments developed for use with amalgams. Such techniques include transferring the composite with an amalgam carrier, and shaping and packing the composite with an amalgam plugger. The dental restoration may optionally be further etched and sealed. The kit comprises at least a condensable composite and an amalgam carrier. The condensable composite is further provided in premeasured amounts, that is, in amounts of one spill, two spills, or three spills. In another embodiment, the kit further comprises a flowable composite material, and in still another embodiment, the kit further comprises a flowable composite material and dispenser, an etchant, a primer/adhesive, a plugger, and brush tips. The kit is especially useful in forming posterior dental restorations that are aesthetic, strongly-bonded, and wear-resistant. The restorations have negligible shrinkage upon polymerization.

[52] **U.S. Cl.** **433/223; 433/215; 433/226; 249/155; 425/2**

[58] **Field of Search** **433/223, 215, 433/218, 228.1, 226, 214; 249/155; 425/2; 75/228; 29/160.6; 428/212**

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21 Claims, 2 Drawing Sheets

