

United States Patent [19]

Ohashi et al.

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[54] **DENTAL CAVITY FILLING COMPOSITE MATERIAL**

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[30] **Foreign Application Priority Data**

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[52] U.S. Cl. **523/116**; 260/998.11; 433/228.1; 523/117; 526/276; 528/399

[58] Field of Search 433/226, 228; 526/276; 260/543 PN, 998.11; 528/399, 168; 523/116, 117

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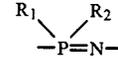
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[57] **ABSTRACT**

A dental filling composite material is disclosed, which contains 10-99% by weight of phosphazene of the formula:



in which at least one of R₁ and R₂ represent radicals having not less than 3 carbon atoms and being polymerizable.

The filling composite material is low in polymerization shrinkage, thermal expansion coefficient and water absorption and may be quickly polymerized and cured to form a polymer of high compressive strength, flexural strength and hardness.

4 Claims, No Drawings