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(54) Title: DENTAL COMPOSITIONS

(57) Abstract: There are provided polymerizable compositions comprising at least one polymerizable monomer, a polymerization initiator, at least one filler, a polymerizable resin comprising a thermoplastic resin, and a dendritic molecule, wherein said composition contains at least about 40-95 wt.% of said filler, and from about 0.1 to about 10.0 wt.% of said dendritic molecule. Preferably, the dendritic molecule is a hyperbranched molecule which is a branched condensation polymer containing ester groups and at least one amide group in the polymer backbone, having at least one hydroxyalkyl amide end group,. Also provided are dental materials formed from such compositions.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C08K 3/02, 3/34, 5/54, 5/56, 9/04

US CL : 523/109; 524/492, 730, 789, 790

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)

U.S. : 523/109; 524/492, 730, 789, 790

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)
USPTO WEST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,886,064 A (RHEINBERGER et al) 23 March 1999, see claims 1-15	1-54
Y	US 6,093,777 A (SORENSEN et al) 25 July 2000, col. 1, line 14 through col. 12, line 67.	1-54
A,P	US 6,392,006 B1 (VAN BENTHEM et al) 21 May 2002, see the abstract	1-73
X, P	US 2002/0068771 A (KLEE et al) 06 June 2002, see the entire document.	1-73
X	WO 93/14147 A1 (De Brabander Van Den Berg et al) 22 July 1993, see the entire document.	1-73

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed	

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