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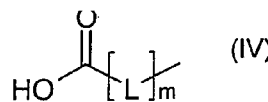
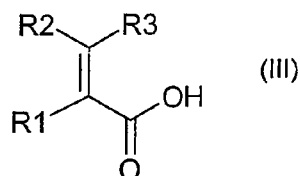
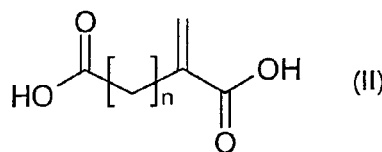
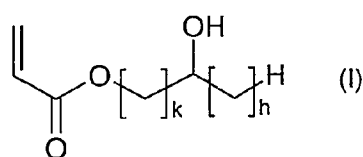
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(54) Title: HARDENING COMPOSITION



(57) Abstract: A hardening composition comprising a particulate glass, said glass comprising 10-35% by weight of silica, 10-35% by weight of alumina, 3-30% by weight of zinc oxide, 4-30% by weight of P₂O₅ and 3-25% by weight of fluoride, and an acidic copolymer reactive with the particulate glass under aqueous conditions. An aqueous polymer solution comprising 10 to 65% by weight of the acidic copolymer of the hardening composition with a mean molecular weight of from 50,000 to 200,000, obtainable by a process comprising the copolymerization of a mixture containing acrylic acid and an acrylic acid ester (I) and / or a compound of the formula (II) and, optionally, a compound of the formula (III); Formulas (I) (II) (III) wherein k is an integer of from 1 to 5; h is an integer from 0 to (5 - k); n is an integer of from 1 to 3; R1 is hydrogen or a C1-6 alkyl group, and; R2 and R3 independently represent hydrogen, a C1-6 alkyl group or a moiety of the following formula (IV): Formula (IV) wherein m independently is an integer of from 0 to 3, and L is -CH₂- or -CH=CH-; provided that at least one of R1, R2 or R3 is not hydrogen.

INTERNATIONAL SEARCH REPORT

International application No
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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)
A61K

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 practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 304 987 A (PENNWALT CORP [US]) 31 January 1973 (1973-01-31)	32
Y	page 1, line 78 - page 2, line 10 claims	1-31
Y	----- WO 2006/050829 A (DENTSPLY DE TREY GMBH [DE]; BLACKWELL GORDON [DE]) 18 May 2006 (2006-05-18)	1-31
	page 9, line 19 - page 10, line 7 claims	
A	----- US 4 016 124 A (CRISP STEPHEN ET AL) 5 April 1977 (1977-04-05)	1-32
	examples claims	

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

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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O document referring to an oral disclosure, use, exhibition or other means	*8* document member of the same patent family
P document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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