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(54) Title: ANTIMICROBIAL RESIN MATERIALS AND METHOD OF MANUFACTURING THE SAME

(57) Abstract: The present invention relates to an anti-microbial resin composition comprising uniformly distributed functional particles in an amount of 0,1 % to 99% by weight of the anti-microbial resin composition, wherein the functional particles comprising a metal oxide and/or ceramic nano-particle core with a diameter of 5nm to 100nm and anti-microbial metal nano-particles with a diameter of 0,5nm to 10nm, wherein the anti-microbial metal nano-particles are fixed onto the surface of the metal oxide and/or ceramic nano-particle core and a method for preparing the resin composition.



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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. C08K9/02 C09C3/06 C08J3/20 C09C1/30 C09C1/36

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)  
C08K C09C C08J

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, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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