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(54) Title: ADVANCED ANTIMICROBIAL AND CHEMICAL FILTERS FOR GAS AND WATER SYSTEMS

(57) Abstract: The present invention relates to functionalized filter materials consisting of carbons and ceramic substrates for special antimicrobial, phase transfer, and catalytic properties and the method of preparation thereof. The filters are coated with different types of inorganic and polymer impregnates for specific applications in air and water pollution control and catalysis. The substrates are activated by special processes and the impregnates may be reacted with certain redox systems to help increase their efficacy.



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