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(54) Title: MOLECULAR FILTERS FOR SELECTIVE REMOVAL AND REPURPOSING OF GASEOUS FUMES AND EMISSIONS

(57) Abstract: The present invention relates to a system and method for lowering the toxic pollutants from emissions containing molecular filter media compositions and methods of production. The filter media provides air purification by absorbing the effluents from the emission and then repurposing the contaminants through chemical interaction on the surface of the filter media and the regenerant. The adsorbent composition of the filter media maintains its integrity at high process temperature.



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