

Title (en)
ADSORPTIVE MONOLITH INCLUDING ACTIVATED CARBON, METHOD FOR MAKING SAID MONOLITH, AND METHOD FOR ADSORBING CHEMICAL AGENTS FROM FLUID STREAMS

Title (de)
AKTIVKOHLE ENTHALTENDER ADSORPTIVER MONOLITH, VERFAHREN ZUR HERSTELLUNG DIESES MONOLITHES UND VERFAHREN ZUR ADSORPTION VON CHEMIKALIEN AUS FLUIDSTRÖMEN

Title (fr)
MONOLITHE ADSORBANT RENFERMANT DU CHARBON ACTIF, PROCEDE DE FABRICATION DE CE MONOLITHE, ET PROCEDE D'ADSORPTION D'AGENTS CHIMIQUES CONTENUS DANS DES COURANTS DE FLUIDES

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Application
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Abstract (en)
[origin: CA2367031A1] An adsorptive monolith made by extruding a mixture of activated carbon, a ceramic forming material, a flux material, and water, drying the extruded monolith, and firing the dried monolith at a temperature and for a time period sufficient to react the ceramic material together and form a ceramic matrix. The extrudable mixture may also comprise a wet binder. The monolith has a shape with at least one passage therethrough and desirably has a plurality of passages therethrough to form a honeycomb. The monolith may be dried by vacuum drying, freeze drying, or control humidity drying. The monolith is useful for removing volatile organic compounds and other chemical agents such as ozone from fluid streams. Particularly useful applications include adsorptive filters for removing ozone from xerographic devices and other appropriate office machines and volatile organic compounds from automobile engine air intake systems.

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