

Title (en)
AN EXTRUDED POROUS SUBSTRATE HAVING INORGANIC BONDS

Title (de)
EXTRUDIERTES PORÖSES SUBSTRAT MIT ANORGANISCHEN BINDUNGEN

Title (fr)
SUBSTRAT POREUX EXTRUDÉ COMPRENANT DES LIAISONS INORGANIQUES

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Abstract (en)
[origin: WO2008021587A2] A method is provided for producing a highly porous substrate. More particularly, the present invention enables fibers, such as organic, inorganic, glass, ceramic, polymer, or metal fibers, to be combined with binders and additives, and extruded, to form a porous substrate. Depending on the selection of the constituents used to form an extrudable mixture, the present invention enables substrate porosities of about 60% to about 90%, and enables process advantages at other porosities, as well. The extrudable mixture may use a wide variety of fibers and additives, and is adaptable to a wide variety of operating environments and applications. Additives can be selected that form inorganic bonds between overlapping fibers in the extruded substrate that provide enhanced strength and performance of the porous substrate in a variety of applications, such as, for example, filtration and as a host for catalytic processes, such as catalytic converters.

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