

Title (en)
TEXTURED PARTICULATE FILTER FOR CATALYTIC APPLICATIONS

Title (de)
TEXTURIERTER PARTIKELFILTER FÜR KATALYTISCHE ANWENDUNGEN

Title (fr)
FILTRE A PARTICULES TEXTURE POUR APPLICATIONS CATALYTIQUES

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Application
EP 09737072 A 20090716

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Abstract (en)
[origin: WO2010007324A1] The subject of the invention is a catalytic filter for the treatment of solid particulates and gaseous pollutants coming from the combustion gases of an internal combustion engine, comprising a porous matrix forming an array of longitudinal channels separated by porous filtering walls based on or comprising silicon carbide or aluminium titanate in the form of grains connected together. The filter according to the invention is characterized in that: said grains and grain boundaries of said porous filtering walls are covered on at least 70% of their surface with a texturing material, said texturing consisting of irregularities, the sizes of which are between 10 nm and 5 microns; and a catalytic coating at least partially covers said texturing material and, optionally, at least partially, the grains of said porous filtering walls.

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