

Title (en)
CATALYTIC FILTER FOR FILTERING A GAS, COMPRISING A JOINT CEMENT INCORPORATING A GEOPOLYMER MATERIAL

Title (de)
KATALYTISCHES FILTER ZUR FILTERUNG EINES GASES MIT EINEM FUGENMÖRTEL MIT EINEM GEOPOLYMERSTOFF

Title (fr)
FILTRE CATALYTIQUE POUR LA FILTRATION D'UN GAZ COMPRENANT UN CIMENT DE JOINT INCORPORANT UN MATÉRIAU GÉOPOLYMÈRE

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Application
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Abstract (en)
[origin: WO2011157939A1] The invention relates to a filter structure, for filtering particulate-laden gases, comprising a plurality of honeycomb filtering elements, said structure being obtained by assembling said elements, which are joined together by means of a joint cement, said joint cement being an essentially inorganic, preferably mineral, composite comprising at least, by weight and with the exclusion of water and of the optional organic additives; between 30 and 95% of a filler formed by an assembly of grains, the melting point of which is above 1000°C, said grains having a diameter of greater than 30 micrometres, between 5 and 70% of a binder matrix incorporating a geopolymer phase, said binder matrix comprising, in percentages by weight of the corresponding oxides: SiO₂: between 20 and 80%, Al₂O₃: between 3 and 50%, R₂O: between 3 and 30%, R₂O representing the sum of the alkali metal oxides present in the binder matrix.

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See references of WO 2011157939A1

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