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(54) Title: SORBENT FOR PURIFICATION OF AIR-GAS MIXTURES, GROUNDWATER AND WASTE WATER FROM OIL AND FUEL HYDROCARBONS AND METHOD OF ITS PREPARATION

(57) Abstract: The invention relates to environmental protection, in particular, to purification of air-gas and aqueous enviroins from oil and fuel hydrocarbons with help of organo-mineral sorbents prepared by modification of a mineral matrix by organic polymers. The sorbent is the product of modification of a mineral carrier by plasticized polymer modifiers which composition includes natural and synthetic silicates and/or aluminum silicates - as mineral carriers, synthetic polymers - as polymeric modifiers, ethylene oligomers or aliphatic and aromatic esters of two- and tribasic acids - as plasticizers at the following relationship of ingredients, parties by mass: mineral carrier - 100, polymer - (5-30), plasticizer - (1-20). Natural or synthetic silicate or aluminum silicate is treated by a solution or a latex containing polymer and plasticizer at the temperature of 15-30 °C, or by a viscous- plastic mixture of polymer and plasticizer at the temperature of 100-180 °C under agitating.

