

ABSTRACT

THE PROCESS of ASPHALT PURIFICATION
and
THE COMPOSITION of MODIFIED ASPHALT

This invention covers two subjects related to each others. The first subject corresponds with the process of rock asphalt purification, which in most case, their matrices were composed of calcium carbonate rocks. The main chemical reaction of this invention took place between calcium carbonate and inorganic acids e.g.: H_2SO_4 , HCl , etc. Through this chemical reaction, rock matrices are destructed and bitumen extracted by gas developed during the reaction float to the surface whilst mineral are deposited by gravitation force. Bitumen are then separated by decantation and dried:

The second subject is related to the utilization of the product of purification as a main material in the conversion of oil waste materials into environmentally friendly materials. Subsequently the latter may be further processed to produce soil stabilizer material or modified asphalt.

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