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RECYCLING OF OILY WASTE WITH THE USING OF SOLAR ENERGY

A. A. Rysmagambetova
Al-Farabi Kazakh National University, Almaty

One of the main objectives of modern ways of recycling oily wastes is increasing the level of extraction of oil and oil produces with the thermo-processing's method using solar energy.

Recycling of oily sludge and oily polluted soil with using of innovational method solve definite tasks – ecological, economical and social.

According to this our aim was to work out the way and equipments for separation organic and mineral parts of oily waste with the use solar energy, which needs some costs for cleaning from smoky gasses. In order to reduce the costs we have worked out the equipment, in which the solar energy is highly used. While cleaning oil-polluted grounds and oily sludge the effectiveness of the work of the equipment which is used increases.

The cleaning of oily polluted grounds and oily sludge is implemented in the equipment that is provided with replaceable translucent cover as the cylindrical shape from plastic volume, half- filled with petroleum oil, and focused straight and scattered solar radiation, that plays the role of heater. The equipment consists of heat isolated case, black colored inside, which absorbs solar rays. As the lenses we can use any lucent cylindrical polyethylene volume. At the top of the lenses for preventing the loss of warm it is covered with polyethylene slick. So, during the day solar radiation comes to the surface of translucent cover like a cylindrical shape from plastic volumes.

The experiments have been made with oily waste in the equipment in the oil deposit. After preliminary cleaning of oily waste with the use of solar energy in the ground the existences of solid waste do not increase 8, 65 – 8, 79%.

Side by side with solution of economical questions the given worked out way of cleaning oily waste will sufficiently reduce the level of negative effect influence of polluted substances on the environment.

Supervisor – doctor of technical sciences M. M. Abdibattayeva.

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