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(54) **METHOD TO RECOVER CRUDE OIL FROM SLUDGE OR EMULSION**

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(57) **ABSTRACT**

Recovering crude oil by separating and removing valuable hydrocarbon, water and solid components from sludge or an emulsion. A sludge or an emulsion with added reagents of predefined ratio is received to form a mixture for treatment. The mixture is processed to break a micelle structure of the sludge or the emulsion. The mixture is agitated to allow homogenization thereof. The processed mixture is centrifuged to separate hydrocarbons, water and solids from the sludge or the emulsion. The separated hydrocarbons are tested to ensure separated solids are disposed as environmentally safe materials. Basis solids and water contents of separated hydrocarbons are tested. The separated hydrocarbons are separated, and the filtered hydrocarbons (i.e., the recovered crude oil) are stored. The crude oil is thereby recovered from sludge or emulsion through a chemical exothermic reaction and centrifugation to resolve the emulsion into free water, solids and hydrocarbons.