ABSTRACT

~~Methods and systems for purifying a caustic fluid including sulfur are provided.~~

A method for purifying a caustic fluid including sulfur comprises mixing the caustic fluid with a hydrocarbon solvent; passing the mixed caustic fluid through a pre-filter assembly comprising a housing including an inlet and an outlet and defining a fluid flow path between the inlet and the outlet with a porous prefilter element across the fluid flow path; providing a solids depleted caustic fluid; passing the depleted fluid through an inlet of a liquid liquid coalescer assembly comprising a liquid liquid coalescer assembly housing including the inlet and a liquid liquid coalescer filter element in the liquid liquid coalescer assembly housing, the liquid liquid coalescer assembly housing having an upper part having an upper port, and a lower part having a lower port; passing coalesced droplets comprising sulfur and hydrocarbon solvent through the upper port; and passing purified caustic fluid having a reduced sulfur content though the lower port.

FIGURE 1