

METHODS AND SYSTEMS FOR PROCESSING CRUDE OIL

ABSTRACT OF THE DISCLOSURE

Methods and systems for processing crude oil may include adding water to crude oil, for example, in a desalter, to produce hydrocarbon and brine and a rag layer emulsion, which may include hydrocarbon and brine and solids. The emulsion may be modified, including adding one or more of additional hydrocarbon and, a demulsifier, a reverse demulsifier, a coagulant, and a flocculant, for example, in a mixer. The modified emulsion may be directed through a dead-end filter assembly to remove solids.

Figure 1