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(71) Applicant (for all designated States except US): H2OIL
CORPORATION [US/US]; 2509 Technology Drive,
Hayward, CA 94545 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SONG, Ben, C. [US/
US]; 612 Oregon Avenue, Palo Alto, CA 94303 (US).
HICKS, Richard, H. [GB/US]; 406-1 Olympus, Her-
cules, CA 94547 (US).(74) Agent: DILLAHUNTY, T., Gene; Burns, Doane, Swecker
& Mathis, P.O. Box 1404, Alexandria, VA 22313-1404
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(54) Title: APPARATUS FOR MAKING CONCENTRATED EMULSIONS

(57) Abstract

An apparatus for continuously making a concentrated water-in-oil emulsion, such as one which can be effectively employed as an additive to hydrocarbon fuels, comprises a circulating loop vessel (4) having an inlet (11) for the continuous phase, an inlet (12) for the discontinuous phase and a circulating pump (14), all arranged to produce a concentrated emulsion. An outlet (15) is provided for the continuous removal of the emulsion product. Once charged, the apparatus can make uniform and consistent emulsion product intermittently or continuously as desired. Additional inlets can be provided for additives or other components. The inlets (11, 12) employ metering pumps while the circulating pump (14) produces a large flow through the loop compared to the volume of product produced at the product outlet (15).

