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(54) **Title:** EMULSION-PRODUCING HYDRAULIC CIRCUIT AND METHOD FOR RE-EMULSIFYING A SEPARATED LIQUID

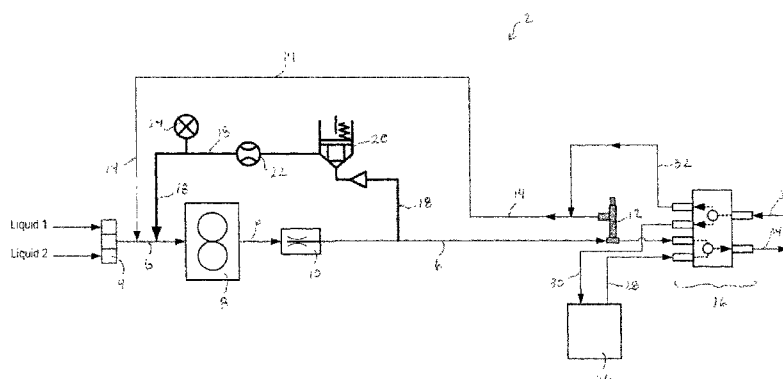


FIG. 1

(57) **Abstract:** The present invention relates to an emulsion-producing hydraulic circuit. The hydraulic circuit includes a by-pass loop comprising a first end and a second end, where the first end of the by-pass loop and the second end of the by-pass loop are connected to a supply line of the hydraulic circuit before and after a pump. The asynchronous by-pass loop also includes a control valve, and the by-pass loop transfers a portion of an emulsion and/or any separated liquid that has accumulated in the hydraulic circuit to the supply line to be re-emulsified. Also disclosed is a method for re-emulsifying a separated liquid present in a hydraulic circuit.