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(54) Title: WATER TREATING EQUIPMENT PROVIDING COALESCENCE AND FLOTATION WITHIN A SINGLE VESSEL

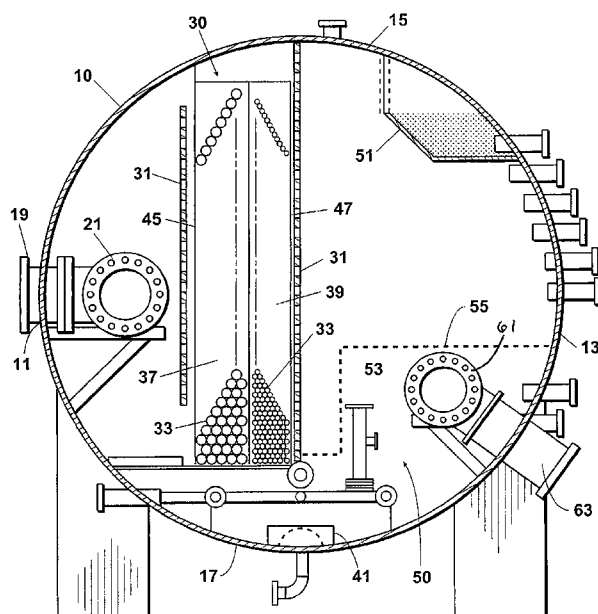


Fig. 1A

(57) Abstract: A vessel (10) for treating an oil-in-water inlet stream houses an inlet flow distributor (21) arranged to direct an inlet flow toward a perforated baffle (31) of a coalescing section (30), the coalescing section (30) housing a packing and being arranged upstream of a second baffle (31); a flotation section (50) arranged to receive a flow exiting the coalescing section (30) and being divided by one or more perforated baffles (55); and an outlet water collecting pipe (61) arranged to receive a flow exiting the flotation section (50), the outlet water collecting pipe (61) having one or more openings located along its length. The coalescing section (30) may be divided into two sections (37/39), with one section preferably housing a different pre-selected sized packing than the other section. The flotation section (50) may include one or more gas-inducing devices (53). A solid baffle (43) may be arranged downstream of the second baffle (31) and ahead of the flotation section (50) to provide single or dual flow through that section.



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