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(54) Title: DISSOLVED AIR FLOTATION, ANTISOLVENT CRYSTALLISATION AND MEMBRANE SEPARATION FOR SEPARATING BUOYANT MATERIALS AND SALTS FROM WATER

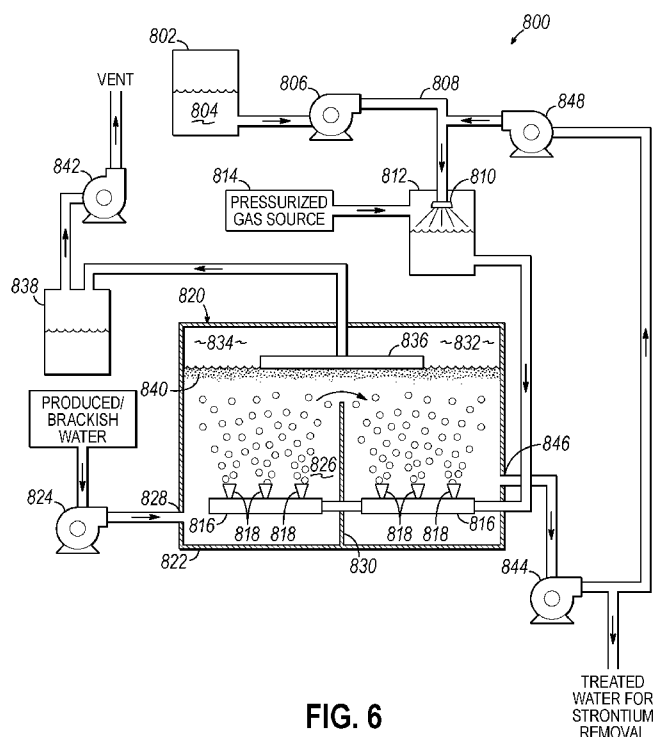


FIG. 6

(57) Abstract: Systems, methods, and apparatus for removing materials from liquid, such as water. The system, methods, and apparatus allow for separation of neutrally buoyant materials from liquid via flotation to or near the surface of the liquid via air bubbles. The system, methods, and apparatus allow for the selective separation of an element, such as strontium, from the liquid. The system, methods, and apparatus allow for precipitating a water soluble salt or water soluble salts from water, including adding a water-miscible solvent to a water solution including an inorganic salt. And, the system, method and apparatus also allow for the separation of the precipitated salt, and for separation of the solvent from the water.



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