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(54) **Title:** A HOLLOW FIBER MODULE

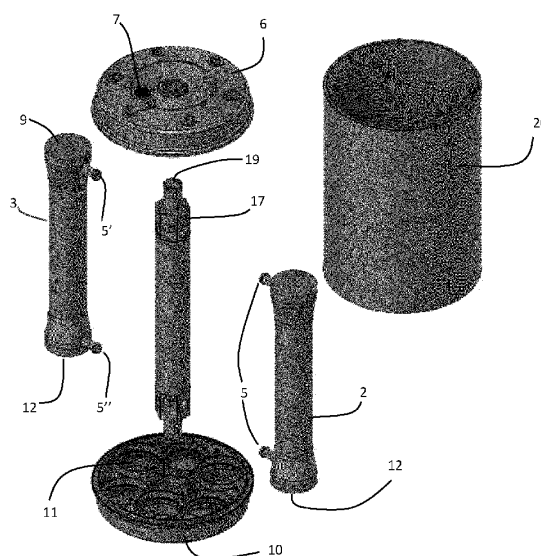


Fig. 9

(57) **Abstract:** A hollow fiber module comprising a plurality of hollow fiber cartridges is disclosed. Each hollow fiber cartridge comprises a bundle of semi-permeable hollow fibers, said bundle being surrounded by a shell extending longitudinally along the length of the bundle and potted at both ends in a resin, thereby defining a lumen side volume for the treatment of a first solution and a shell side volume for the treatment of a second solution, said shell being provided with a port for receiving the second solution to be treated in the shell side volume and another port for discharging the treated second solution. The hollow fiber module comprises a first end cap comprising an inlet for the first solution and a distributor for distributing the first solution to a first end of each of the hollow fiber cartridges and a second end cap comprising a collector for collecting the treated first solution from the second end of each of the hollow fiber cartridges and an outlet for the treated first solution. The module also comprises a first connector comprising an inlet for the second

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solution and a distributor for distributing the second solution to a port of each of the hollow fiber cartridges and a second connector comprising a collector for collecting the treated second solution from the other port of each of the hollow fiber cartridges and an outlet for the treated second solution. The module meets the market need for a hollow fiber module having a large membrane area.