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(54) Title: ENZYMATIC MICROCHANNEL FIBER CONTACTORS

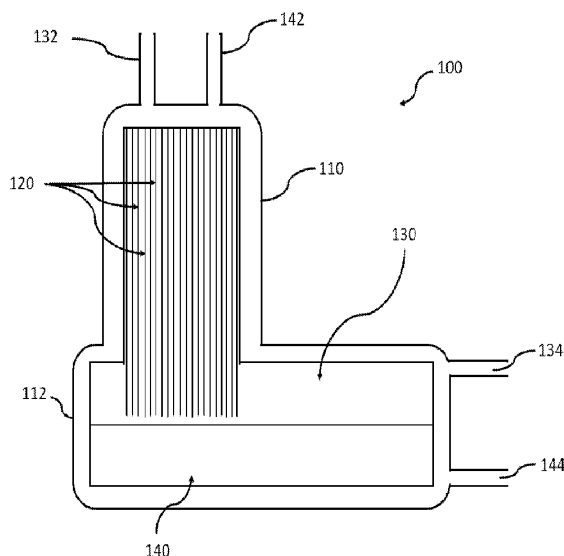


FIG. 2

(57) Abstract: An immobilized enzyme fiber contactor includes a plurality of fibers disposed within a hollow conduit. The fibers have an enzyme selected from an oxidoreductase, a transferase, a hydrolase, a lysase, an isomerase, or a ligase attached thereto. The enzymes can be attached to the fibers via an anchor group and, optionally, a bifunctional crosslinker. The enzymes can be applied, stripped, and reapplied without disassembling the reactor or discarding the fibers. The immobilized enzyme fiber contractor can be used to conduct two-phase or single-phase enzymatic reactions.

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