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(54) Title: TUBULAR MEMBRANE HEAT EXCHANGER

(57) Abstract: In accordance with one aspect of the present disclosure, a tubular membrane heat exchanger module is provided that includes an inlet header and outlet header. The inlet header is configured to connect to an adjacent upstream tubular membrane heat exchanger module and from an upstream wetted compartment therewith. The outlet header is configured to connect to an adjacent downstream tubular membrane heat exchanger module and form a downstream wetted compartment therewith. The tubular membrane heat exchanger module further includes tubular membranes connecting the inlet header and the outlet header. The tubular membranes facilitate flow of process fluid from the upstream wetted compartment to the downstream wetted compartment. Further, the tubular membranes permit mass transfer between the process fluid in the tubular membranes and a fluid contacting outer surfaces of the tubular membranes.



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