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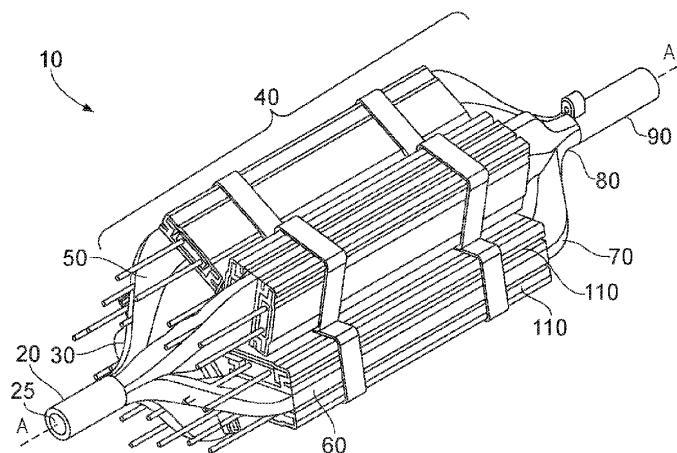


FIG. 1

(57) Abstract: A heat exchanger for a reagent stream, comprising: an inlet conduit configured to receive said reagent stream; an inlet manifold fluidly coupled with said inlet conduit; and a plurality of heat exchange chambers fluidly coupled with said inlet manifold, wherein said inlet manifold has a static impeller structure configured to separate said reagent stream into a plurality of separated reagent streams and to direct each of said plurality of separated reagent streams to a corresponding one of said plurality of heat exchange chambers.

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