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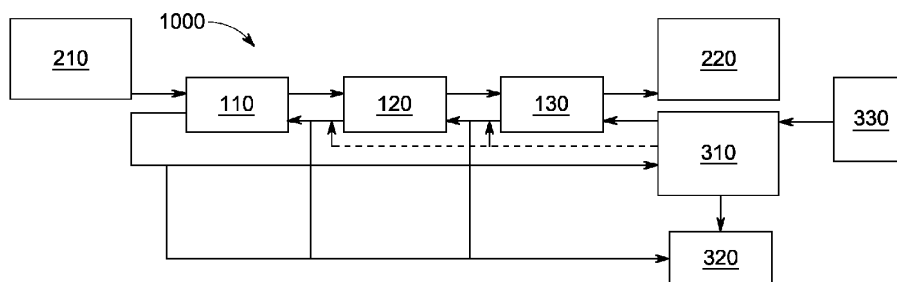


FIG. 1

(57) Abstract: Systems and methods for recovering ammonia from an aqueous solution are disclosed. The systems include a plurality of modules arranged in series, each module having a plurality of membranes, each membrane having a lumen side and a shell side. The plurality of modules include a lead module having a shell inlet fluidly connected to a source of the aqueous solution, an end module having a lumen inlet fluidly connected to a source of an acidic solution, and an optional intermediate module positioned between the lead module and the end module. The methods include directing the aqueous solution to the lead module and directing the acidic solution to the end module to produce an effluent and a product containing ammonium.

[Continued on next page]

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