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(54) Title: PROCESS FOR REMOVING NITROGEN FROM FUEL STREAMS WITH CAPROLACTAMIUM IONIC LIQUIDS

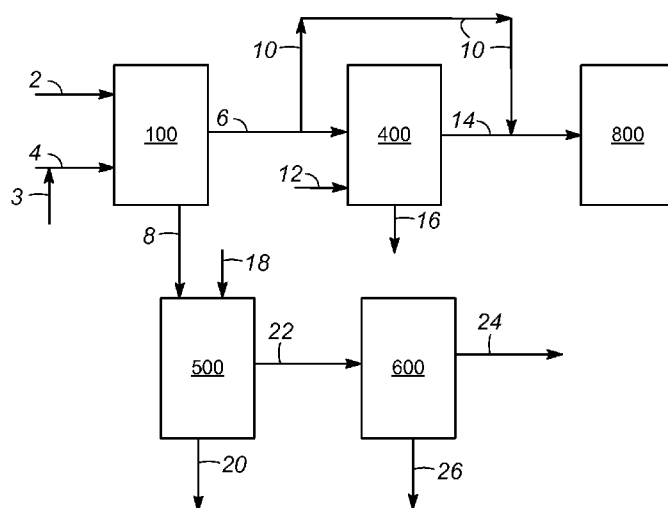


FIG. 1

(57) Abstract: A process for removing a nitrogen compound from a fuel feed, such as vacuum gas oil or diesel fuel, wherein the process includes contacting the fuel feed comprising the nitrogen compound with a fuel-immiscible caprolactamium ionic liquid to produce a fuel and fuel-immiscible caprolactamium ionic liquid mixture, and separating the mixture to produce a vacuum gas oil or a diesel effluent having a reduced nitrogen content relative to the vacuum gas oil or diesel feed. The invention provides an alternate use for caprolactamium ionic liquid that is produced in large quantities for the manufacture of caprolactam.



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