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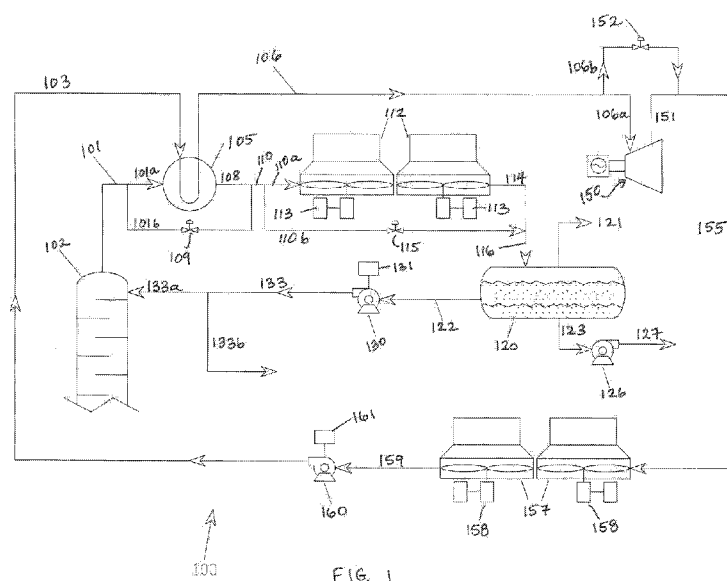
Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: IMPROVING CAPACITY AND PERFORMANCE OF PROCESS COLUMNS BY OVERHEAD HEAT RECOVERY INTO AN ORGANIC RANKINE CYCLE FOR POWER GENERATION



(57) Abstract: Heat recovery systems and methods for producing electrical and/or mechanical power from heat by-product of an overhead stream from a process column are provided. Heat recovery systems and methods include a process heat by-product stream for directly or indirectly heating a working fluid of an organic Rankine cycle. The organic Rankine cycle includes a heat exchanger, a turbine-generator system for producing electrical or mechanical power, a condenser heat exchanger, and a pump for recirculating the working fluid to the heat exchanger.



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