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(54) Title: RECOVERY, RECYCLE, AND REUSE OF THERMAL FLUIDS

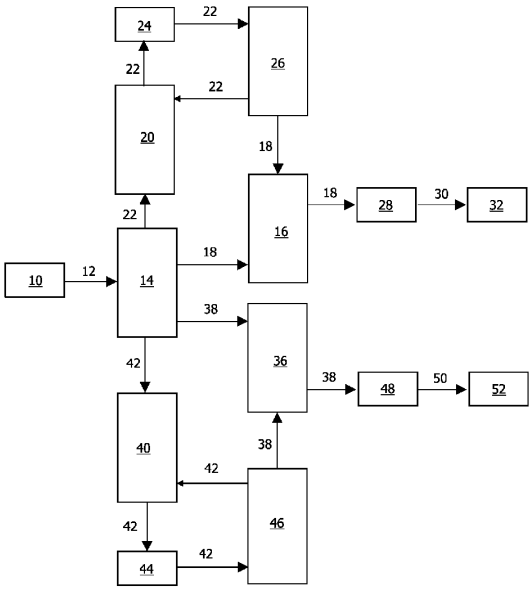

FIG. 1

(57) Abstract: A process of thermal fluid recovery, recycle, and reuse includes recovering a thermal fluid including at least one refrigerant compound from at least one thermal management device as a recovered thermal fluid. The process also includes recycling the recovered thermal fluid. The recycling includes testing the recovered thermal fluid for composition and level of impurities. The recycling also includes purifying the recovered thermal fluid to reduce the level of impurities as needed and adjusting the composition of the recovered thermal fluid as needed to provide a recycled thermal fluid meeting predetermined purity and composition criteria for a predetermined thermal fluid type. The recycling further includes validating that the recycled thermal fluid has greater than 98 wt% organic purity. The process further includes reusing the thermal fluid. The reusing includes charging the recycled thermal fluid to a thermal management device. The process occurs onsite.

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