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(71) Applicants: **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** [US/US]; 77 Massachusetts Avenue, Cambridge, MA 02139 (US). **SANOFI** [FR/FR]; 54, rue La Boetie, F-75008 Paris (FR).

(72) Inventors: **GOH, Shireen**; Block 103, Bukit Batok Central, #07-239, Singapore 650103 (SG). **RAM, Rajeev Jagga**; 63 Chester Street, Arlington, MA 02476 (US). **LEE, Kevin Shao-Kwan**; 3 Shephard Street, Apt. 1, Cambridge, MA 02138 (US). **CANZONERI, Michelangelo**; c/o Sanofi, 54, rue La Boetie, F-75008 Paris (FR). **BLUM, Horst**; c/o Sanofi, 54, rue La Boetie, F-75008 Paris (FR).

(74) Agents: **BLACKWELL, Brandon S.** et al.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210-2206 (US).

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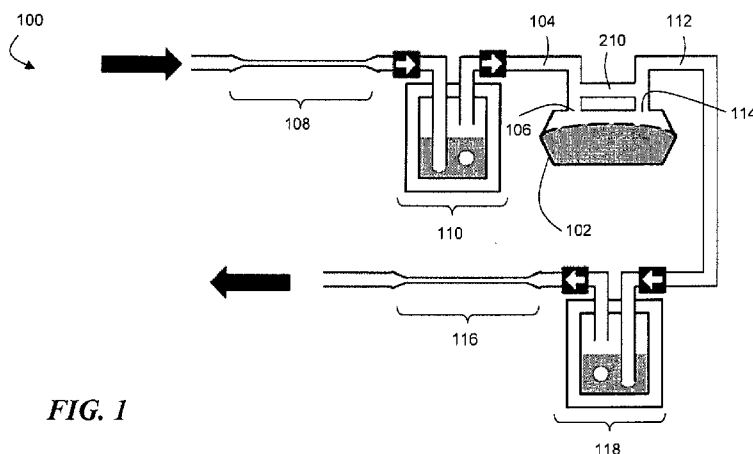


FIG. 1

(57) Abstract: Control of humidity in chemical reactors, and associated systems and methods, are generally described. In certain embodiments, the humidity within gas transport conduits and chambers can be controlled to inhibit unwanted condensation within gas transport pathways. By inhibiting condensation within gas transport pathways, clogging of such pathways can be limited (or eliminated) such that transport of gas can be more easily and controllably achieved. In addition, strategies for purging condensed liquid from chemical reactor systems are also described.