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(71) Applicant: **BOEHRINGER INGELHEIM INTERNATIONAL GMBH** [DE/DE]; Binger Strasse 173, 55216 Ingelheim am Rhein (DE).

(72) Inventors; and

(71) Applicants (for US only): **HILLER, Gregory Walter** [US/US]; c/o VP, IP Legal, Boehringer Ingelheim USA

Corp., 900 Ridgebury Rd., P.O. Box 368, Ridgefield, Connecticut 06877-0368 (US). **KUNDU, Anita Maria** [US/US]; c/o VP, IP Legal, Boehringer Ingelheim USA Corp., 900 Ridgebury Rd., P.O. Box 368, Ridgefield, Connecticut 06877-0368 (US).

(74) Agent: **LOCKENOUR, Andrea** et al.; Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, Connecticut 06877-0368 (US).

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(54) Title: SYSTEMS AND METHODS FOR PRODUCING A BIOLOGIC MOLECULE WITH HYDROCYCLONE CELL RETENTION DEVICE

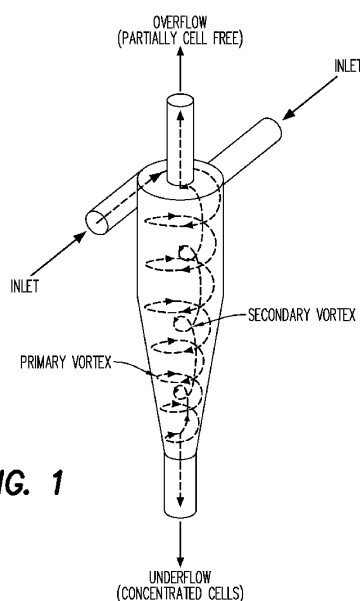


FIG. 1

(57) Abstract: Systems and methods for continuous production of at least one biological molecule of interest are provided. More specifically, the systems include (i) at least one culture bioreactor; (ii) at least one hydrocyclone; and (iii) at least one production bioreactor; wherein the culture bioreactor and the production bioreactor are linked by the hydrocyclone. The methods include the steps of (i) culturing a plurality of host cells capable of producing a biologic molecule of interest in at least one culture bioreactor; (ii) inoculating at least one production bioreactor with cells obtained from step (i); and (iii) culturing the cells in the production bioreactor.

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