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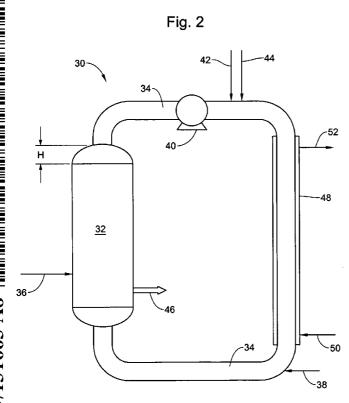
- (71) Applicant (for all designated States except US): UNIVATION TECHNOLOGIES, LLC [US/US]; 5555 San Felipe, Suite 1950, Houston, TX 77056 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HUSSEIN, Fathi,D. [US/US]; 5403 Bennett Drive, Cross Lanes, WV

25313 (US). CAI, Ping, P. [US/US]; 5 Greenbrier Avenue, Hurricane, WV 25526 (US). CEVALLOS-CAN-DAU, Jose, F. [US/US]; 1518 Coventry Lane, Charleston, WV 25314 (US). BURDETT, Ian, D. [GB/US]; 106 East Ridge Road, Charleston, WV 25314 (US). HAMILTON, W., Scott [US/US]; 986 Harmony Lane, S. Charleston, WV 25303 (US). THOMAS, Daniel, N. [US/US]; 42 Presidio Pointe, Cross Lanes, WV 25313 (US).

- (74) Agent: ARECHEDERRA, III, Leandro; Univation Technologies, LLC, 5555 San Felipe, Suite 1950, Houston, TX 77056-2746 (US).
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(54) Title: REACTOR SYSTEMS AND PROCESSES FOR USING THE SAME



(57) Abstract: A process for the polymerization of olefin's, including: introducing an olefin and a polymerization catalyst into a polymerization reactor to form a polyolefin, the polymerization reactor including: a fluidized bed region having a top and a bottom; and a motive bed region; wherein a first end of the motive bed region is fluidly connected to the top of the fluidized bed region; and wherein a second end of the motive bed region is fluidly connected to the bottom of the fluidized bed region; and wherein a diameter of the fluidized bed region is greater than a diameter of the motive bed region; circulating at least a portion of the olefin, the catalyst, and the polyolefin through the fluidized bed region and the motive bed region; maintaining a dense-phase fluidized bed within the fluidized bed region; recovering polyolefin from the fluidized bed region, is provided. A reactor system directed to the process is also provided.

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