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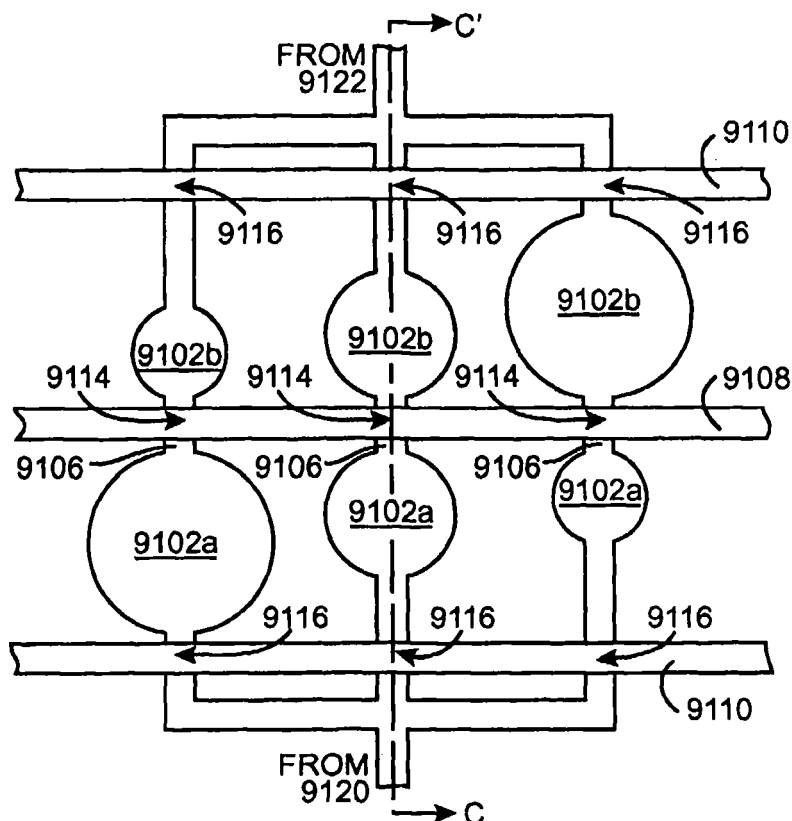
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- (71) Applicants: CALIFORNIA INSTITUTE OF TECHNOLOGY [US/US]; 1200 East California Blvd., Pasadena, CA 92115 (US). THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 12th floor, Oakland, CA 94607-5200 (US).
- (72) Inventors: HANSEN, Carl, L.; 438 S. Catalina #204, Pasadena, CA 91106 (US). QUAKE, Stephen, R.; 744 Plymouth Road, San Marino, CA 91108 (US). BERGER, James, M.; 47 Arlington Court, Kensington, CA 94707 (US).
- (74) Agents: TOBIN, Kent, J. et al.; Townsend and Townsend and Crew LLP, 2 Embarcadero Center, 8th floor, San Francisco, CA 94111 (US).
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(54) Title: HIGH THROUGHPUT SCREENING OF CRYSTALLIZATION OF MATERIALS



(57) Abstract: High throughput screening of crystallization of a target material is accomplished by simultaneously introducing a solution of the target material into a plurality of chambers (9102a, 9102b) of a microfabricated fluidic device. The microfabricated fluidic device is then manipulated to vary the solution condition in the chambers (9102a, 9102b), thereby simultaneously providing a large number of crystallization environments. Control over changed solution conditions may result from a variety of techniques, including but not limited to metering volumes of crystallizing agent into the chamber by volume exclusion, by entrapment of volumes of crystallizing agent determined by the dimensions of the microfabricated structure, or by cross-channel injection of sample and crystallizing agent into an array of junctions defined by intersecting orthogonal flow channels.

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