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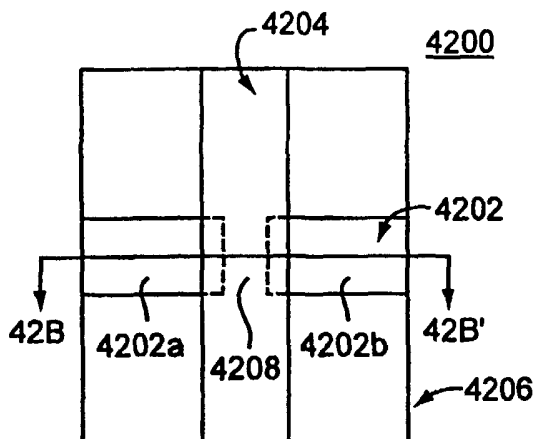
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(54) Title: CRYSTAL GROWTH DEVICES AND SYSTEMS, AND METHODS FOR USING SAME



(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 of a microfabricated fluidic device (4200). The microfabricated fluidic device is then manipulated to vary the solution condition in the chambers (4202a, 4202b), 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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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C 30 B 7/00, 7/08, 7/10, 7/14, 29/58 US CL : 117/68, 69, 200, 206, 928 According to International Patent Classification (IPC) or to both national classification and IPC</p>														
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<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>US 6,409,832 B2 (WEIGL et al.) 25 June 2002 (25.06.2002).</td> <td rowspan="4">1-15</td> </tr> <tr> <td>A</td> <td>US 2002/0195050 A1 (DAVID) 26 December 2002 (26.12.2002).</td> </tr> <tr> <td>A,E</td> <td>US 2003/0027225 A1 (WADA et al) 06 February 2003 (06.02.2003).</td> </tr> <tr> <td>Y</td> <td>US 2003/0061687 A1 (HANSEN et al) 03 April 2003 (03.04.2003) columns 13 and 14.</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	US 6,409,832 B2 (WEIGL et al.) 25 June 2002 (25.06.2002).	1-15	A	US 2002/0195050 A1 (DAVID) 26 December 2002 (26.12.2002).	A,E	US 2003/0027225 A1 (WADA et al) 06 February 2003 (06.02.2003).	Y	US 2003/0061687 A1 (HANSEN et al) 03 April 2003 (03.04.2003) columns 13 and 14.
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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

West

search terms: microfluid, mold, protein, control