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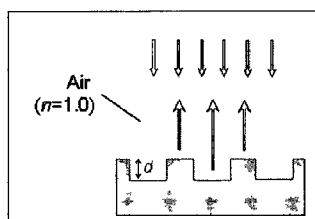
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(54) Title: NANOFABRICATED OPTICAL INTERFERENCE ARRAY

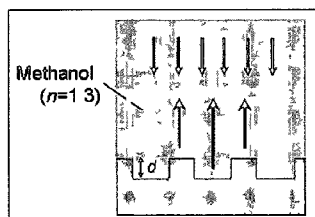
Figure 2A



Field*

5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
H	B	D	H													
Add Liquid																
D	B						D	D	D	D	O	α	B	Q	EO	O
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Figure 2B



(57) Abstract: A display or sensor device includes a nano-stepped or nano-dimpled solid surface. The device produces a color readout in response to an optical interference effect between light reflected from a bottom and a top of a step or a dimple of the surface. The device is adapted to detect a change in the reflected light in response to a presence of a fluid and/or a change in a property of the fluid. A fluid source is adapted to deliver or remove a transmissive fluid to or from the step or dimple, which causes a change in the color readout or reflectance spectrum.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: A63B 37/12(2006.01) USPC: 473/379 According to International Patent Classification (IPC) or to both national classification and IPC														
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C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Category *</th> <th style="width: 70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width: 20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">T</td> <td>U S 2006/0145326 A 1 (TRAN) 06 July 2006 (06.07.2006) claim 1-20</td> <td style="text-align: center;">1-30</td> </tr> <tr> <td style="text-align: center;">P</td> <td>US2006/0 157684 A 1 (DECKER) 20 July 2006 (20.07.2006) Claims 1-34</td> <td style="text-align: center;">1-30</td> </tr> <tr> <td style="text-align: center;">P</td> <td>U S 2006/0145326 A 1 (TRAN) 6 July 2006 (06.07.2006) claims 1-20</td> <td style="text-align: center;">1-30</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	T	U S 2006/0145326 A 1 (TRAN) 06 July 2006 (06.07.2006) claim 1-20	1-30	P	US2006/0 157684 A 1 (DECKER) 20 July 2006 (20.07.2006) Claims 1-34	1-30	P	U S 2006/0145326 A 1 (TRAN) 6 July 2006 (06.07.2006) claims 1-20	1-30
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Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 223 13-1450 Facsimile No. (57 1) 273-3201	Authorized officer Eugene Kim Telephone No. (57 1) 272-4463													