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(71) **Applicant** *(for all designated States except US)*: **SOLADIGM, INC.** [US/US]; 195 South Milpitas Boulevard, Milpitas, California 95035 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **KOZLOWSKI, Mark** [US/US]; 374 Winemaker Way, Windsor, California 95492 (US). **KURMAN, Eric** [US/US]; 1039 Maxwell Street, Healdsburg, California 95448 (US). **WANG, Zhongchun** [CN/US]; 169 Beacon Drive, Milpitas, California 95035 (US). **SCOBEY, Mike** [US/US]; 3752 Fox Hill Place, Santa Rosa, California 95404 (US). **DIXON, Jeremy** [US/US]; 39939 Stevenson Common, #1088, Fremont, California 94538 (US). **PRADHAN, Anshu** [IN/US]; 4772 Piper Street, Fremont, California 94538 (US). **ROZBICKI, Robert** [US/US]; 2 Mint Plaza, Suite 401, San Francisco, California 94103 (US).

(74) **Agents**: **WEAVER, Jeffrey, K.** et al.; Weaver Austin Villeneuve & Sampson LLP, P.O. Box 70250, Oakland, California 94612-0250 (US).

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[Continued on next page]

(54) **Title**: FABRICATION OF LOW DEFECTIVITY ELECTROCHROMIC DEVICES

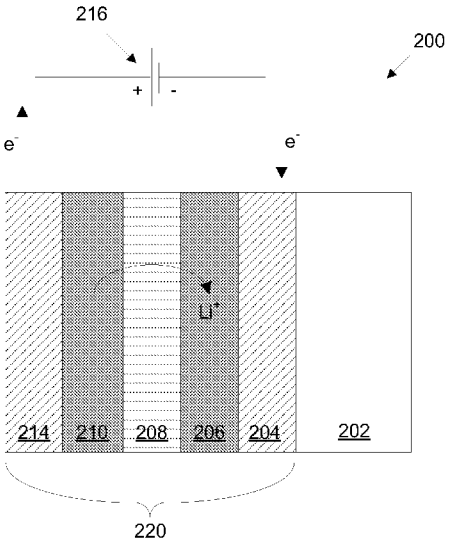

FIGURE 3

(57) **Abstract**: Prior electrochromic devices frequently suffer from high levels of defectivity. The defects may be manifest as pin holes or spots where the electrochromic transition is impaired. This is unacceptable for many applications such as electrochromic architectural glass. Improved electrochromic devices with low defectivity can be fabricated by depositing certain layered components of the electrochromic device in a single integrated deposition system. While these layers are being deposited and/or treated on a substrate, for example a glass window, the substrate never leaves a controlled ambient environment, for example a low pressure controlled atmosphere having very low levels of particles. These layers may be deposited using physical vapor deposition.

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MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER

G02F 1/15(2006.01)i, G02F 1/153(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G02F 1/15; H01M 4/48; H01L 21/205; G02F 1/13; H01M 10/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: electrochromic, window, counter electrode, ion conducting layer, integerated deposition system

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2009-029111 A1 (MIDWEST RESEARCH INSTITUTE et al.) See abstract; figure 1; part of "DETAILED DESCRIPTION"; claims 1-45	1-43
Y	KR 10-0874662 B1 (INTERNATIONAL MANUFACTURING & ENGINEERING SERVICES CO., LTD., KIDO JUNJI) See abstract; figures 1-2; paragraphs [0044]-[0075]; claims 1-27	1-43
Y	KR 10-2004-0057144 A (LG.PHILIPS LCD CO.,LTD.) See abstract; figures 2-4; pages 2-3; claims 1-6	1-43

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Authorized officer

Yoon Young Jin

Telephone No. 82-42-481-8533

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Information on patent family members

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		JP 2002-348659 A	04.12.2002
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