(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 July 2008 (24.07.2008)

PCT

(10) International Publication Number
WO 2008/088932 A1

(51) International Patent Classification:
H01L 51/00 (2006.01) *B41F 15/08* (2006.01)

(21) International Application Number:
PCT/US2008/050103

(22) International Filing Date: 3 January 2008 (03.01.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/622,209 11 January 2007 (11.01.2007) US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:
— *with international search report*

[Continued on next page]

(54) Title: APPARATUS AND METHODS FOR FABRICATION OF THIN FILM ELECTRONIC DEVICES AND CIRCUITS

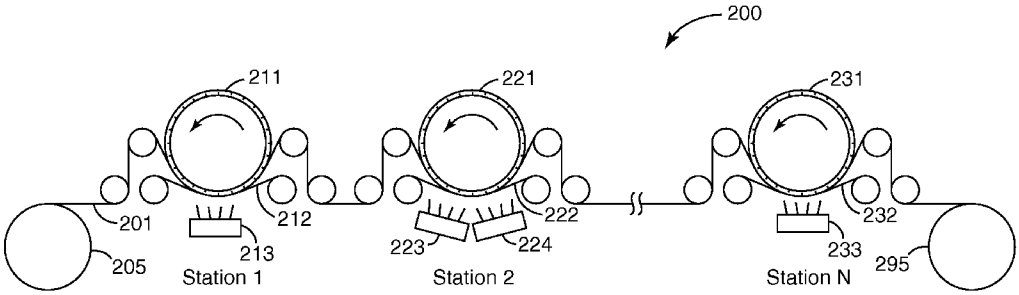


Figure 2

(57) Abstract: Methods and systems for forming layered electronic devices on a flexible, elongated substrate are described. The layered electronic devices include at least one electronically or optically active layer. Deposition of one more layers of the electronic devices occurs as the flexible substrate is moved through one or more deposition stations. At each deposition station the substrate is aligned with an aperture mask having apertures arranged in a pattern. The aperture mask and the substrate are brought into proximity over a portion of a circumference of a rotating drum. A layer of the layered electronic devices is formed by deposition of material through the apertures of the aperture mask. At each deposition station, registration between at least two layers of the layered electronic devices is maintained.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*