



## (51) International Patent Classification:

**G01B 11/00** (2006.01)      **G01C 3/16** (2006.01)  
**G09F 3/00** (2006.01)      **G06F 3/033** (2006.01)  
**G01B 5/00** (2006.01)

## (21) International Application Number:

PCT/US2009/039720

## (22) International Filing Date:

7 April 2009 (07.04.2009)

## (25) Filing Language:

English

## (26) Publication Language:

English

## (30) Priority Data:

12/104,700      17 April 2008 (17.04.2008)      US

(71) **Applicant** (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(72) **Inventors**: **FLOEDER, Steven, P.**; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US). **MAS-TERMAN, James, A.**; Post Office Box 33427, Saint Paul, MN 55133-3427 (US). **SKEPS, Carl, J.**; Post Office Box 33427, Saint Paul, MN 55133-3427 (US). **SMITH, Jason, P.**; Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(74) **Agents**: **BERN, Steven, A.**, et al.; 3M Center Office Of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(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, ST, 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, MK, 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))

[Continued on next page]

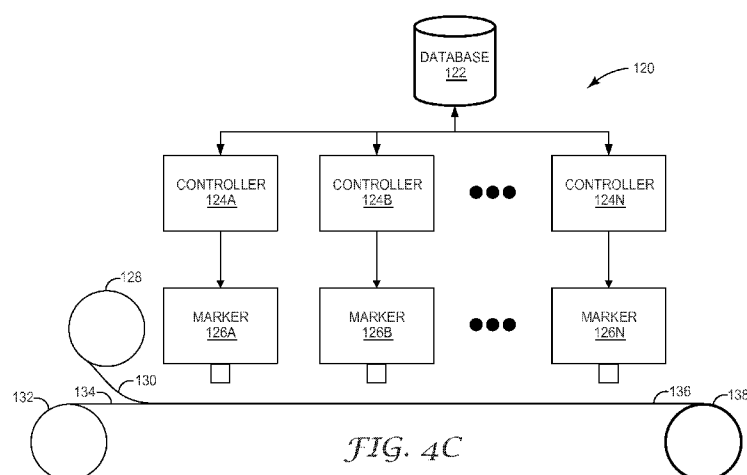
(54) **Title**: PREFERENTIAL DEFECT MARKING ON A WEB

FIG. 4C

(57) **Abstract**: A system for preferentially marking defects on a web is described. The system includes a web of material to be converted into individual sheets of a plurality of different grade levels, a database storing anomaly data of anomalies on the web, wherein an anomaly is a potential defect in at least one of the plurality of different grade levels, a marker that associates a unique mark with at least one of the grade levels, and a controller to retrieve the anomaly data from the database and to signal the marker as to where to make a mark, wherein the marker applies the mark associated with at least one of the grade levels for which the anomaly may cause a defect. The system may provide advantages, such as that a converter of various products from a single web roll may determine which regions of the web satisfy each grade level



- 
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- Published:**
- *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*