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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 July 2006 (20.07.2006)

PCT

(10) International Publication Number
WO 2006/076667 A3

(51) International Patent Classification:
G06K 19/077 (2006.01) *B41J 3/44* (2006.01)

(21) International Application Number:
PCT/US2006/001404

(22) International Filing Date: 12 January 2006 (12.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/643,851	14 January 2005 (14.01.2005)	US
11/166,782	24 June 2005 (24.06.2005)	US
11/165,835	24 June 2005 (24.06.2005)	US
11/166,784	24 June 2005 (24.06.2005)	US
11/166,783	24 June 2005 (24.06.2005)	US

(71) Applicant and
(72) Inventor: **BERSON, William** [US/US]; 9 Huckeberry Lane, Weston, Connecticut 06883 (US).

(74) Agents: **JACKSON, Robert R.** et al.; FISH & NEAVE IP GROUP, ROPES & GRAY LLP, 1251 Avenue Of The America, New York, New York 10020 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

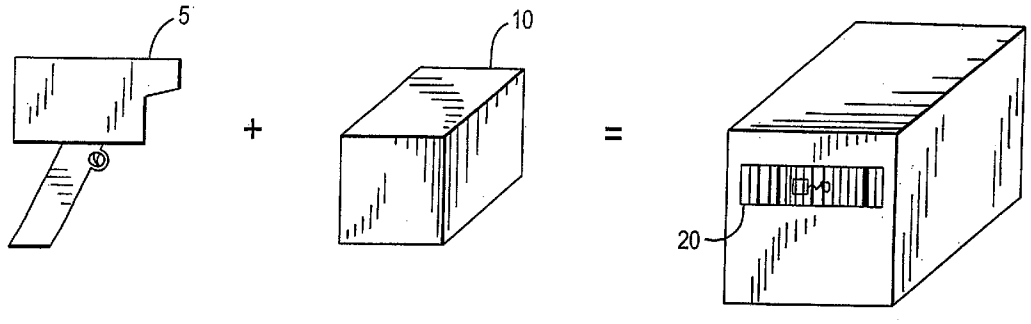
Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
12 April 2007

(15) Information about Correction:
Previous Correction:
see PCT Gazette No. 35/2006 of 31 August 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RADIO FREQUENCY IDENTIFICATION LABELS AND SYSTEMS AND METHODS FOR MAKING THE SAME



(57) Abstract: Systems and methods are provided for generating customized labels having electronic circuitry such as RFID circuitry. A printing system generates the label by selectively transfer printing elements (e.g., electronic circuitry, physical components, etc.) and donor layers (e.g., conductive materials, non-conductive materials, etc.) from a ribbon to a receiver (e.g., an item that receives the indicia). In addition, the printing system can program and test the label or indicia thereof, thereby providing the ability to customize each label according to predetermined criteria and to ensure that each label functions properly.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/001404

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06K19/077 B41J3/44

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)
G06K B41J

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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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
2 February 2007	13/02/2007

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Grob, Mark

INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/062119 A1 (HOHBERGER CLIVE P ET AL) 3 April 2003 (2003-04-03) figures 3,5,7-9 paragraphs [0002], [0038] - [0044], [0052], [0060], [0062] - [0065], [0083]	1-17, 57-93, 214-229, 240
A		18-56, 94-101, 230-239
X		102-108, 110-113, 115, 117-129, 131-135, 138-143
Y		109,114, 116,130, 136,137
X	paragraphs [0083] - [0085]; figures 16C,D	144-146, 148-159, 161-167, 173-175, 177,179, 183-186, 189, 193-196, 198,199, 201,203, 205-207, 209-212

X	US 6 246 326 B1 (WIKLOF CHRISTOPHER A ET AL) 12 June 2001 (2001-06-12) figure 1 column 3, line 45 - column 5, line 20 abstract	57-77, 214-229, 240
A		1-56, 78-101, 230-239

X	US 2001/048028 A1 (SASAKI NAOTAKA ET AL) 6 December 2001 (2001-12-06) figure 1 paragraphs [0028] - [0031]	57-77
A		1-56, 78-101, 214-240

A	AU 743 556 B2 (IER) 31 January 2002 (2002-01-31) figures 1-4 page 4, line 2 - page 7, line 5	1-101, 214-240

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 104 291 A (BEAUVILLIER LUC [US] ET AL) 15 August 2000 (2000-08-15) figures 4A-4C column 8, line 33 - column 9, line 30	102-108, 111-113, 117-129, 132,133
Y		109,114, 116,130, 136,137
X	US 2001/024160 A1 (BANACH MATTHEW [US] ET AL) 27 September 2001 (2001-09-27) figures 1,3,8-10 abstract paragraphs [0021] - [0025] paragraphs [0060] - [0065]	113, 117-120, 134, 138-141
X	US 6 593 853 B1 (BARRETT TONY J [US] ET AL) 15 July 2003 (2003-07-15) figures 1,2,5,16 abstract column 3, lines 8-59 column 8, lines 19-45	102-108, 111-113, 117-129, 132-134, 138-143
X	US 6 027 027 A (SMITHGALL DAVID HARRY [US]) 22 February 2000 (2000-02-22) figures 4-6 column 4, line 47 - column 5, line 30	144-153, 155-159, 161-163, 177-188, 192,193, 198, 201-213
X	US 6 702 185 B1 (ZERCHER JOHN MICHAEL [US]) 9 March 2004 (2004-03-09) figures 1-6 column 2, line 13 - column 4, line 5 -/--	144-146, 148-153, 155-159, 161-163, 177-188, 193,198, 205-207, 209-213

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/001404

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/200061 A1 (COLEMAN JAMES P [US] ET AL) 14 October 2004 (2004-10-14) abstract figures 4-7 paragraphs [0054], [0061] - [0069]	144-152, 155-159, 161,163, 177-188, 193,198, 201-203, 205-213
X	WO 00/16278 A (MOTOROLA INC [US]) 23 March 2000 (2000-03-23) figures 1-3 page 4, lines 6-37	144-146, 148-152, 155-159, 161,163, 177-188, 193,198, 205-207, 209-213

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/001404

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [ ] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. [ ] Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [X] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[X] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-101; 214-240

   The first group of inventions relates to a method or corresponding apparatus for selectively transfer-printing an element (e.g. RFID circuitry) and donor layer material (e.g. ink) from a print ribbon to a receiver item (e.g. a label); or the print ribbon carrying the element and the donor layer material.

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2. claims: 102-143

   The second group of inventions relates to a method or system of programming and/or testing an element (e.g. RFID circuitry) using a probe.

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3. claims: 144-213

   The third group of inventions relates in general to a label comprising an element (e.g. an antenna) coupled to electronic circuitry.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2006/001404

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