



(51) International Patent Classification:

B32B 38/14 (2006.01) *G06Q 30/02* (2012.01)
G06K 19/077 (2006.01) *G06K 7/10* (2006.01)
B42D 15/02 (2006.01) *B42D 25/485* (2014.01)

(21) International Application Number:

PCT/GB2014/051132

(22) International Filing Date:

10 April 2014 (10.04.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1306552.9 10 April 2013 (10.04.2013) GB

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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, BN, BR, BW, BY,
BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, 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, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

4 December 2014

(54) Title: IMPROVEMENTS RELATING TO BUSINESS CARDS

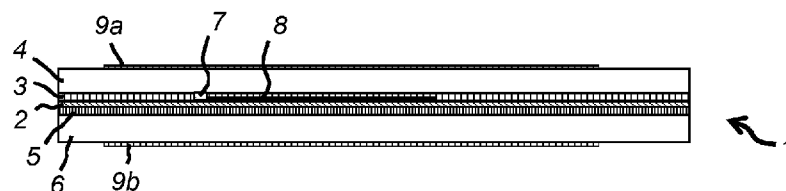


FIG. 1

(57) Abstract: A multiple ply printed product and a method of producing it are described. The method comprises providing a substrate layer having a first surface supporting at least one wireless communication chip and a second surface, reverse to the first surface. A first paper stock having a first surface and a second surface is also provided. A first bonding operation is performed to substantially bond together the first surface of the substrate layer and the second surface of the first paper stock, to sandwich the wireless communication chip between the first paper stock and the substrate layer; providing a second paper stock having a first surface and a second surface. At least one of the first surface of the first paper stock and the second surface of the second paper stock may be printed on. A second bonding operation is performed to bond together the first surface of the second paper stock and the second surface of the substrate layer, to form a multiple ply printed product where the first surface of the substrate layer supports a plurality of wireless communication chips and the multiple ply printed product is a sheet on which is printed a plurality of business cards, each business card corresponding to a respective wireless communication chip.



INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2014/051132

A. CLASSIFICATION OF SUBJECT MATTER
 INV. B32B38/14 G06K19/077 B42D15/02 G06Q30/02
 ADD. G06K7/10 B42D25/485

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 B42D B32B

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 practicable, 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.
X A	US 2003/136503 A1 (GREEN A; BENOIT D R) 24 July 2003 (2003-07-24) paragraph [0060] - paragraph [0072]; figures 3-5 paragraph [0106] - paragraph [0116]; figures 15,16	1,4,5, 12-21 2,6-11
X A	US 2010/252637 A1 (BOUCHARD OLIVIER) 7 October 2010 (2010-10-07) abstract; claims 1, 3-6,8,9; figures 1,3,4	1,4,5, 12-21 2,6-11
X Y A	JP 2006 082438 A (FUJI XEROX CO LTD) 30 March 2006 (2006-03-30) paragraph [0006] - paragraph [0011]; figure 1	22,23 24-28 1,15-18, 32
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 30 September 2014	Date of mailing of the international search report 09/10/2014
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Dindorf, Jochen

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2014/051132

Box No. 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 No. 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. 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 fees, this Authority did not invite payment of additional fees.
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.:

1-33
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 and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- 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: 1-21

Producing a multiply printed product and multiply printed product

2. claims: 22-33

Manufacturing business cards

3. claims: 34-38

Tracking uploading of digital data associated with a physical business card

4. claim: 39

Using a business card to provide access to restricted information

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2014/051132

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2007/088873 A1 (NIPPON TSUSHINSHI CO LTD [JP]; JUJO PAPER CO LTD [JP]; YOSHIDA KEISAKU) 9 August 2007 (2007-08-09) page 10, paragraph 37; figure 1 -----	12
X	CN 1 744 108 A (WANG TIELI [CN]) 8 March 2006 (2006-03-08) page 8, paragraph 2; figure 1 -----	19-21
A	EP 0 698 859 A1 (SCHLUMBERGER IND SA [FR] SCHLUMBERGER SYSTEMS & SERVICE [FR]) 28 February 1996 (1996-02-28) column 3, line 6 - column 4, line 23; figures 1,2,6 -----	1,6-10
X	DE 10 2005 054130 A1 (BOSCH GMBH ROBERT [DE]) 16 May 2007 (2007-05-16) paragraphs [0026], [0027], [0034]; figures 1,4 -----	22,23,28
Y	JP 2003 231505 A (NTT COMWARE CORP; SHIBAURA MECHATRONICS CORP) 19 August 2003 (2003-08-19) abstract; figure 4 paragraphs [0015] - [0017], [0041] -----	24,25
Y	US 2008/266105 A1 (BROD VOLKER [DE] ET AL) 30 October 2008 (2008-10-30) paragraphs [0002] - [0003], [0005], [0007] - [0009], [0021], [0039]; figures 3-6 -----	26-28
A	WO 2007/129102 A1 (MOO PRINT LTD [GB]; MOROSS RICHARD [GB]; MAGDALINSKI STEFAN [GB]) 15 November 2007 (2007-11-15) cited in the application figures 10-12 -----	29,30, 32,33
A	DE 10 2006 019809 A1 (GIESECKE & DEVRIENT GMBH [DE]) 31 October 2007 (2007-10-31) paragraphs [0004] - [0010]; figure 1 -----	26-28,31
A	US 2004/144472 A1 (COWIE KEVIN EUGENE HUNTLEY [CA]) 29 July 2004 (2004-07-29) paragraphs [0021], [0035], [0043] - paragraph [0044]; figures 4-6 -----	22-25, 32,33
A	US 2007/075132 A1 (KEAN BRIAN [US]) 5 April 2007 (2007-04-05) paragraphs [0008] - [0019], [0050] - [0057]; figures 2-5 -----	23-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2014/051132

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003136503	A1	24-07-2003	AT 326734 T 15-06-2006
			AU 2003267938 A1 22-12-2003
			CA 2473729 A1 18-12-2003
			CA 2816158 A1 18-12-2003
			CA 2816180 A1 18-12-2003
			CA 2816324 A1 18-12-2003
			CN 1628321 A 15-06-2005
			CN 101159036 A 09-04-2008
			DE 03748885 T1 29-09-2005
			DE 60305295 T2 18-01-2007
			EP 1470528 A2 27-10-2004
			EP 2306372 A1 06-04-2011
			ES 2270072 T3 01-04-2007
			JP 4860918 B2 25-01-2012
			JP 2005520266 A 07-07-2005
			JP 2009048662 A 05-03-2009
			KR 20040075095 A 26-08-2004
			MX PA04006913 A 15-10-2004
			US 2003136503 A1 24-07-2003
			US 2005252605 A1 17-11-2005
			US 2006213609 A1 28-09-2006
			US 2008142154 A1 19-06-2008
			US 2012297609 A1 29-11-2012
			WO 03105063 A2 18-12-2003
US 2010252637	A1	07-10-2010	CA 2698999 A1 03-10-2010
			EP 2237193 A1 06-10-2010
			FR 2944121 A1 08-10-2010
			US 2010252637 A1 07-10-2010
JP 2006082438	A	30-03-2006	NONE
WO 2007088873	A1	09-08-2007	CN 101379244 A 04-03-2009
			WO 2007088873 A1 09-08-2007
CN 1744108	A	08-03-2006	NONE
EP 0698859	A1	28-02-1996	DE 69527234 D1 08-08-2002
			EP 0698859 A1 28-02-1996
			FR 2724040 A1 01-03-1996
DE 102005054130	A1	16-05-2007	DE 102005054130 A1 16-05-2007
			EP 1952313 A1 06-08-2008
			US 2008203176 A1 28-08-2008
			WO 2007054526 A1 18-05-2007
JP 2003231505	A	19-08-2003	NONE
US 2008266105	A1	30-10-2008	DE 102005035848 A1 07-12-2006
			EP 1889202 A1 20-02-2008
			JP 2008542937 A 27-11-2008
			US 2008266105 A1 30-10-2008
			WO 2006131439 A1 14-12-2006
WO 2007129102	A1	15-11-2007	DK 2024873 T3 24-06-2013
			EP 2024873 A1 18-02-2009
			ES 2413829 T3 17-07-2013
			PT 2024873 E 25-06-2013

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/GB2014/051132

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		SI 2024873 T1	31-07-2013
		US 2009303523 A1	10-12-2009
		WO 2007129102 A1	15-11-2007

DE 102006019809 A1	31-10-2007	CN 101479744 A	08-07-2009
		DE 102006019809 A1	31-10-2007

US 2004144472 A1	29-07-2004	US 2004144472 A1	29-07-2004
		WO 2004068395 A2	12-08-2004

US 2007075132 A1	05-04-2007	AU 2006302615 A1	19-04-2007
		CA 2624898 A1	19-04-2007
		CN 101506822 A	12-08-2009
		EP 1932093 A2	18-06-2008
		US 2007075132 A1	05-04-2007
		WO 2007044259 A2	19-04-2007
