

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 February 2006 (23.02.2006)

PCT

(10) International Publication Number
WO 2006/020098 A3

(51) International Patent Classification:
A24D 3/04 (2006.01) A24D 3/06 (2006.01)

31210 (US). **HICKS, Douglas R.** [US/US]; 3000 Edgewater Point, McDonough, Georgia 30253 (US).

(21) International Application Number:
PCT/US2005/025254

(74) Agents: **SHERMAN, Charles I.** et al.; Middleton Reutlinger, 2500 Brown & Williamson Tower, Louisville, Kentucky 40202 (US).

(22) International Filing Date: 18 July 2005 (18.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/901,662 29 July 2004 (29.07.2004) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/901,662 (CON)
Filed on 29 July 2004 (29.07.2004)

(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): **BROWN & WILLIAMSON HOLDINGS, INC.** [US/US]; 103 Foulk Road, Suite 117, Wilmington, Delaware 19803 (US).

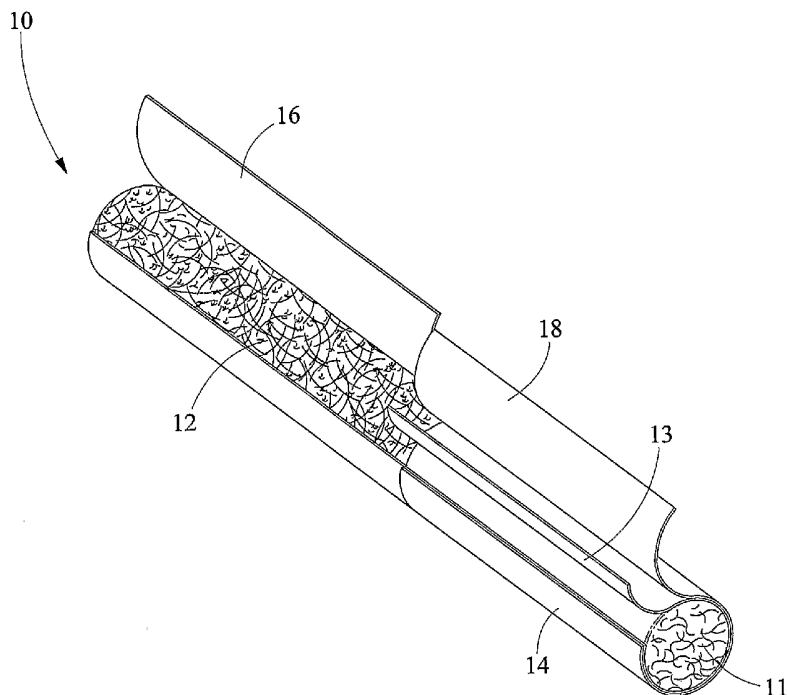
(72) Inventors; and

(75) Inventors/Applicants (for US only): **GONTERMAN, Ricky, A.** [US/US]; 130 Ashford Park, Macon, Georgia

(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).

[Continued on next page]

(54) Title: FLAVORING A CIGARETTE BY USING A FLAVORED FILTER PLUG WRAP



(57) Abstract: A method of flavoring a filter plug wrap (13) of a smoking article (10), such as a cigarette, is disclosed. Furthermore, a method of incorporating flavoring into the plug wrap (13) and using the plug wrap (13) to wrap the filter (14) of the smoking article (10) is disclosed. A smoking article (10) and a filter (14) having a flavored filter plug wrap (13) are also disclosed.

WO 2006/020098 A3

**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*
- *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:

13 April 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.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/025254

A. CLASSIFICATION OF SUBJECT MATTER

A24D3/04 A24D3/06

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)

A24D

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, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 229 078 A (* ROTHMANS INTERNATIONAL TOBACCO) 19 September 1990 (1990-09-19)	1-4, 8, 10-14, 21-24
A	the whole document -----	5, 19
Y	US 5 115 823 A (KERITSIS ET AL) 26 May 1992 (1992-05-26) column 3, line 6 - line 40; figures -----	1, 2, 4, 8, 10-14, 21-24
Y	US 3 420 241 A (JOHN D. HIND ET AL) 7 January 1969 (1969-01-07) the whole document ----- -/--	1, 2, 4, 8, 10-14, 21-24

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

☒ 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
- "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)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "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
- "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

11 January 2006

Date of mailing of the international search report

22.02.2006

Name and mailing address of the ISA/

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

Authorized officer

MARZANO MONTEROSSO

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/025254

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 4 082 098 A (OWENS, JR. ET AL) 4 April 1978 (1978-04-04) column 3, line 34 - column 4, line 35; figures -----	1,3,8, 11,14,21
X	US 4 729 391 A (WOODS ET AL) 8 March 1988 (1988-03-08) example 4 -----	1,8,11, 21
A	US 6 302 114 B1 (CLARKE PAUL FRANCIS ET AL) 16 October 2001 (2001-10-16) column 2, line 47 - line 61; figures -----	8,11,19, 21
Y	EP 0 797 931 A (SOCIETE NATIONALE D'EXPLOITATION INDUSTRIELLE DES TABACS ET ALLUMETTES) 1 October 1997 (1997-10-01) column 2, line 43 - column 5, line 33; figures -----	15,16, 18, 25-27,29
Y	US 5 911 224 A (BERGER ET AL) 15 June 1999 (1999-06-15) column 9, line 36 - line 48; figures -----	15,16, 18, 25-27,29
A	US 2002/166563 A1 (JUPE RICHARD ET AL) 14 November 2002 (2002-11-14) cited in the application the whole document -----	1,5,8, 11,15, 19,21,25

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/025254

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. ☒ 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.
- ☒ 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: 1-14,19-24

A method for forming flavoured filter for a smoking article, whereby the flavouring agent is combined with a binding agent which can be carboxymethylcellulose.
Filter and smoked article produced by said method.

2. claims: 15-18,25-29

Smoking article comprising a filter, the filter comprising a first segment circumscribed by a flavoured wrapping and a second carbon based segment.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/025254

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2229078	A	19-09-1990	NONE	
US 5115823	A	26-05-1992	NONE	
US 3420241	A	07-01-1969	NONE	
US 4082098	A	04-04-1978	AU 507726 B2 AU 2672277 A BR 7705307 A CA 1059400 A1 DE 2747775 A1 DK 474877 A FR 2368905 A1 GB 1544014 A IT 1084090 B NO 772698 A NZ 184503 A SE 7712005 A ZA 7703937 A	28-02-1980 11-01-1979 06-06-1978 31-07-1979 03-05-1978 29-04-1978 26-05-1978 11-04-1979 25-05-1985 02-05-1978 27-05-1980 29-04-1978 30-05-1978
US 4729391	A	08-03-1988	EP 0225742 A2 JP 62118874 A	16-06-1987 30-05-1987
US 6302114	B1	16-10-2001	AT 401598 B AT 201292 A AU 657002 B2 AU 2627292 A BE 1006853 A5 BR 9203963 A CA 2080301 A1 CH 685091 A5 CN 1071322 A DE 4234482 A1 DK 125492 A ES 2040665 A1 FR 2682263 A1 GB 2261152 A HU 67540 A2 IE 922734 A1 IT 1255569 B JP 5292936 A NL 9201739 A PT 100957 A SE 513008 C2 SE 9202992 A RU 2060018 C1 ZA 9207719 A	25-10-1996 15-03-1996 23-02-1995 22-04-1993 10-01-1995 27-04-1993 15-04-1993 31-03-1995 28-04-1993 15-04-1993 15-04-1993 16-10-1993 16-04-1993 12-05-1993 28-04-1995 21-04-1993 09-11-1995 09-11-1993 03-05-1993 28-02-1994 19-06-2000 15-04-1993 20-05-1996 04-05-1993
EP 0797931	A	01-10-1997	AT 183893 T DE 69700458 D1 DE 69700458 T2 DK 797931 T3 ES 2136459 T3 FR 2746600 A1 GR 3031705 T3 JP 10004944 A	15-09-1999 07-10-1999 20-01-2000 20-03-2000 16-11-1999 03-10-1997 29-02-2000 13-01-1998
US 5911224	A	15-06-1999	AU 6576298 A	27-11-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/025254

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5911224	A	BR 9809560 A	17-10-2000
		EP 0984706 A1	15-03-2000
		JP 2001524173 T	27-11-2001
		WO 9849912 A1	12-11-1998
US 2002166563	A1	14-11-2002	US 2004187881 A1
			30-09-2004