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(54) **Low sidestream smoke cigarette with combustible paper having modified ash characteristics**

(57) A low sidestream smoke cigarette comprises a conventional tobacco rod (54), and a combustible treatment paper (56, 58) having a sidestream smoke treatment composition. The treatment composition comprises in combination, an oxygen storage and donor metal oxide

oxidation catalyst and an essentially non-combustible particulate adjunct for said catalyst. Improvements are made in the treatment composition and/or the addition of metal oxides or carbonates thereto to improve ash characteristics.

**EP 1 938 700 A3**



## EUROPEAN SEARCH REPORT

 Application Number  
 EP 08 00 4029

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                   |                                                       |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Citation of document with indication, where appropriate, of relevant passages                                                                                     | Relevant to claim                                     | CLASSIFICATION OF THE APPLICATION (IPC) |
| X,D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | US 5 386 838 A (QUINCY III ROGER B [US] ET AL) 7 February 1995 (1995-02-07)                                                                                       | 1,6, 13-15                                            | INV.<br>A24D1/02                        |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * column 2, line 65 - column 3, line 28 *<br>* column 5, line 17 - column 6, line 9 *                                                                             | 2-5                                                   |                                         |
| Y,D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WO 99/53778 A (ROTHMANS BENSON & HEDGES) 28 October 1999 (1999-10-28)<br>* claims 1-11 *                                                                          | 2-5                                                   |                                         |
| A,D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EP 0 386 884 A (PHILIP MORRIS) 12 September 1990 (1990-09-12)<br>* column 4, line 40 - column 5, line 1; claims *<br>& CA 2 010 575 A 23 August 1990 (1990-08-23) | 1-16                                                  |                                         |
| A,D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | US 2 755 207 A (FRANKENBURG WALTER G) 17 July 1956 (1956-07-17)<br>* the whole document *                                                                         | 1-16                                                  | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                   |                                                       | A24D<br>D21H                            |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                   |                                                       |                                         |
| Place of search<br>The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                   | Date of completion of the search<br>30 September 2014 | Examiner<br>Leprêtre, François          |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document<br>T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |                                                                                                                                                                   |                                                       |                                         |



Application Number

EP 08 00 4029

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☒ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

# **ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.**

EP 08 00 4029

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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30-09-2014

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| US 5386838                                | A | 07-02-1995          | CA 2103213 A1              | 10-01-1995          |
|                                           |   |                     | US 5386838 A               | 07-02-1995          |
|                                           |   |                     | US 5731257 A               | 24-03-1998          |
| -----                                     |   |                     |                            |                     |
| WO 9953778                                | A | 28-10-1999          | AU 742447 B2               | 03-01-2002          |
|                                           |   |                     | CA 2327110 A1              | 28-10-1999          |
|                                           |   |                     | CN 1306401 A               | 01-08-2001          |
|                                           |   |                     | EP 1079706 A2              | 07-03-2001          |
|                                           |   |                     | ID 29936 A                 | 25-10-2001          |
|                                           |   |                     | JP 3711239 B2              | 02-11-2005          |
|                                           |   |                     | JP 2002512012 A            | 23-04-2002          |
|                                           |   |                     | MX PA00010137 A            | 21-06-2002          |
|                                           |   |                     | NO 20005113 A              | 11-12-2000          |
|                                           |   |                     | NZ 507392 A                | 26-09-2003          |
|                                           |   |                     | RU 2214141 C2              | 20-10-2003          |
|                                           |   |                     | TW 536395 B                | 11-06-2003          |
|                                           |   |                     | US 6286516 B1              | 11-09-2001          |
|                                           |   |                     | US 2002002979 A1           | 10-01-2002          |
|                                           |   |                     | US 2003116169 A1           | 26-06-2003          |
|                                           |   |                     | US 2004173231 A1           | 09-09-2004          |
|                                           |   |                     | WO 9953778 A2              | 28-10-1999          |
| -----                                     |   |                     |                            |                     |
| EP 0386884                                | A | 12-09-1990          | AU 623977 B2               | 28-05-1992          |
|                                           |   |                     | AU 5001890 A               | 30-08-1990          |
|                                           |   |                     | BR 9000856 A               | 13-02-1991          |
|                                           |   |                     | CA 2010575 A1              | 23-08-1990          |
|                                           |   |                     | CN 1045020 A               | 05-09-1990          |
|                                           |   |                     | EP 0386884 A2              | 12-09-1990          |
|                                           |   |                     | EP 0559300 A2              | 08-09-1993          |
|                                           |   |                     | GT 199000012 A             | 17-08-1991          |
|                                           |   |                     | JP H02243000 A             | 27-09-1990          |
|                                           |   |                     | NO 900837 A                | 24-08-1990          |
|                                           |   |                     | NZ 232308 A                | 25-09-1991          |
|                                           |   |                     | PL 283926 A1               | 08-04-1991          |
|                                           |   |                     | PT 93230 A                 | 31-08-1990          |
|                                           |   |                     | TR 24329 A                 | 01-09-1991          |
|                                           |   |                     | US 4998542 A               | 12-03-1991          |
|                                           |   |                     | YU 24890 A                 | 28-05-1992          |
|                                           |   |                     | ZA 9000902 A               | 30-01-1991          |
| -----                                     |   |                     |                            |                     |
| US 2755207                                | A | 17-07-1956          | CA 567846 A                | 23-12-1958          |
|                                           |   |                     | FR 1114764 A               | 17-04-1956          |
|                                           |   |                     | GB 762744 A                | 05-12-1956          |
|                                           |   |                     | IT 541844 A                | 30-09-2014          |
|                                           |   |                     | US 2755207 A               | 17-07-1956          |
| -----                                     |   |                     |                            |                     |

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82