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(Cigarette);

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### Cigarette having configured lighting end



[WO EP US CN JP](#) · [US7836897B2](#) · August Joseph Borschke · R.J. Reynolds Tobacco Company

Priority 2007-10-05 · Filed 2007-10-05 · Granted 2010-11-23 · Published 2010-11-23

8. A **smoking** article having a longitudinal axis, and having a lighting end and a mouth end, the **smoking** article comprising a laterally cylindrical aerosol-generating system that includes a **tobacco** fuel element ...

**4. Click on Patent Title**

### Cigarette smoking device having electronic atomization function and method for ...



[WO EP US JP](#) · [JP6397141B2](#) · ユイ ハン · 雲南中煙工業有限責任公司

Priority 2015-03-03 · Filed 2015-04-13 · Granted 2018-09-26 · Published 2018-09-26

The air flow sensing switch inlet hole 2, the surrounding features that you flank of the shell portion forming the second cavity, **tobacco smoking** system having an electronic atomization function. The **cigarette smoking** apparatus having an electronic atomization function according to claim 1, ...

### Cigarette with smoke constituent attenuator



[WO US AU](#) · [US6874508B2](#) · Kenneth Shafer · Philip Morris Incorporated

Priority 2000-05-11 · Filed 2003-04-10 · Granted 2005-04-05 · Published 2005-04-05

3. A **cigarette** as claimed in claim 1 wherein the additive is ammonium bicarbonate. 4. A **cigarette** as in claim 1 wherein the additive is potassium bicarbonate. 5. A **cigarette** as in claim 1 wherein the additive is potassium phosphate. 6. A **cigarette** as in claim 1 wherein the additive is sodium ...

### Cigarette having sidestream aroma



[US](#) · [US4941486A](#) · Michael F. Dube · Dube Michael F

Priority 1986-02-10 · Filed 1988-01-15 · Granted 1990-07-17 · Published 1990-07-17

**Cigarette** sidestream smoke can have the aroma thereof altered by placing the **cigarette** wrapping paper in intimate contact with a flavor precursor such as ethyl vanillin glucoside. The **cigarettes** exhibit good **tobacco** taste during use. The flavor precursor provides no substantial aroma to the ...



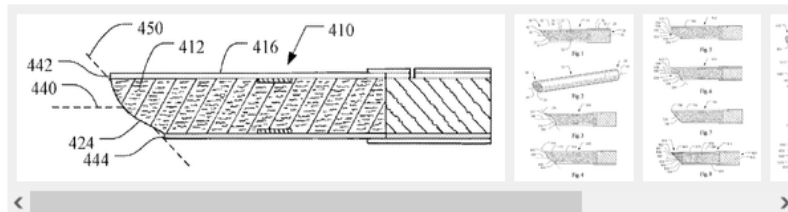
← Back to results ✎ (Cigarette);

## Cigarette having configured lighting end

### Abstract

The lighting end or tip of the smoking article is configured in such a manner that the entire front or upstream face thereof does not lie in a plane that is generally perpendicular to the longitudinal axis of the smoking article. For example, at least a portion of the front face of the smoking article lies in a plane (e.g., a generally flat plane) that is positioned about 40° to about 50° relative to the longitudinal axis of that smoking article. As such, the overall nature or character of the mainstream aerosol generated by a smoking article can be altered. This shape may include an ellipse, or may include a first section in a plane not perpendicular to the longitudinal axis and a second section in a plane perpendicular to the longitudinal axis. Alternatively, the face of the lighting end may be curved or shaped such that its surface area is greater than the cross-sectional area of the lighting end.

### Images (5)



### Classifications

■ [A24C5/28](#) Cutting-off the tobacco rod

[View 2 more classifications](#)

US7836897B2

United States

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Inventor: August Joseph Borschke, Buddy Gene Brown

Reynolds Tobacco Co

ns

WO ES JP EP 2010 · US

### Application US11/868,264 events

- 2007-10-05 • Priority to US11/868,264
  - 2007-10-05 • Application filed by RJ Reynolds Tobacco Co
  - 2009-04-09 • Publication of US20090090373A1
  - 2010-11-23 • Publication of US7836897B2
  - 2010-11-23 • Application granted
  - Status • Active
  - 2028-11-25 • Adjusted expiration
- Show all events ▾

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# RESULT DISPLAYED



US007836897B2

(12) **United States Patent**  
**Borschke et al.**

(10) **Patent No.:** **US 7,836,897 B2**  
(45) **Date of Patent:** **Nov. 23, 2010**

(54) **CIGARETTE HAVING CONFIGURED LIGHTING END**

4,280,187 A 7/1981 Reuland et al.  
4,281,670 A 8/1981 Heitmann et al.  
4,281,671 A 8/1981 Hyne et al.

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Durham, NC (US)

(Continued)

(73) Assignee: **R.J. Reynolds Tobacco Company**,  
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FR 986784 3/1949

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 417 days.

(Continued)

OTHER PUBLICATIONS

(21) Appl. No.: **11/868,264**

Picture of a cigar tidip, retrieved from www.dispensoke.com on Jun. 11, 2010 (NPL 1).\*

(22) Filed: **Oct. 5, 2007**

(Continued)

(65) **Prior Publication Data**

*Primary Examiner*—Carlos Lopez  
(74) *Attorney, Agent, or Firm*—Brinks Hofer Gilson & Lione

US 2009/0090373 A1 Apr. 9, 2009

(51) **Int. Cl.**  
**A24C 1/26** (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** ..... **131/361**, **131/367**  
(58) **Field of Classification Search** ..... **131/361**,  
**131/367**

The lighting end or tip of the smoking article is configured in such a manner that the entire front or upstream face thereof does not lie in a plane that is generally perpendicular to the longitudinal axis of the smoking article. For example, at least a portion of the front face of the smoking article lies in a plane (e.g., a generally flat plane) that is positioned about 40° to about 50° relative to the longitudinal axis of that smoking article. As such, the overall nature or character of the mainstream aerosol generated by a smoking article can be altered. This shape may include an ellipse, or may include a first section in a plane not perpendicular to the longitudinal axis and a second section in a plane perpendicular to the longitudinal axis. Alternatively, the face of the lighting end may have a shape such that its surface area is greater than the cross-sectional area of the smoking article.

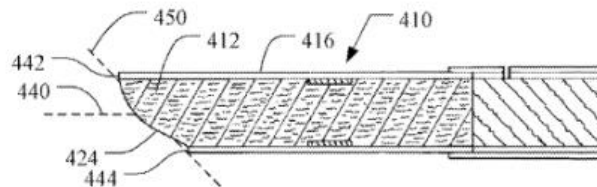
See application file for complete search history.

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**19 Claims, 4 Drawing Sheets**






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