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United States Patent [19]
Counts et al.

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[54] **ELECTRICAL SMOKING SYSTEM**
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[73] **Assignee:** Philip Morris Incorporated, New York, N.Y.
[*] **Notice:** The portion of the term of this patent subsequent to Mar. 11, 2011, has been disclaimed.

[21] **Appl. No.:** 452,635
[22] **Filed:** May 25, 1995

Related U.S. Application Data

[62] Division of Ser. No. 380,718, Jan. 30, 1995, which is a continuation of Ser. No. 118,665, Sep. 10, 1993, Pat. No. 5,388,594, which is a continuation-in-part of Ser. No. 943,504, Sep. 11, 1992, Pat. No. 5,505,214, which is a continuation-in-part of Ser. No. 666,926, Mar. 11, 1991, abandoned.
[51] **Int. Cl.⁶** H05B 3/58; A24F 1/22
[52] **U.S. Cl.** 219/535; 131/194
[58] **Field of Search** 219/535, 536, 219/537, 538, 539, 553; 392/386, 390; 131/194

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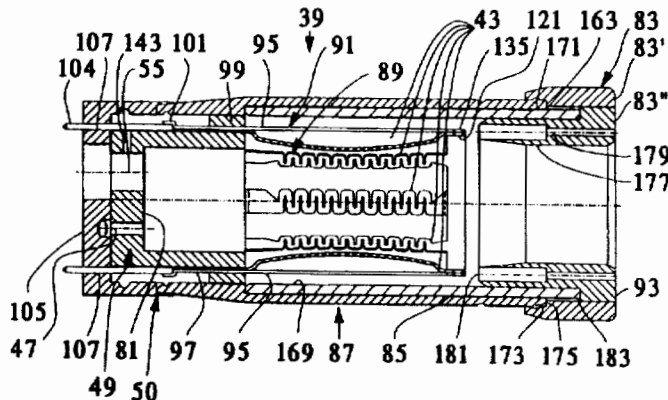
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Assistant Examiner—Sam Paik
Attorney, Agent, or Firm—Charles E. B. Glenn; James E. Schardt; James T. Moore

[57] **ABSTRACT**

A smoking system is provided in which a replaceable cigarette containing tobacco flavor material is electrically heated by a set of electrical heater elements contained within a lighter to evolve tobacco flavors or other components in vapor or aerosol form for delivery to a smoker. The cigarette and lighter are adapted to provide air flow patterns through the smoking system such that air flows transversely into the cigarette. Such patterns improve aerosol and flavor delivery to the smoker and reduce the condensation of residual heater-region vapor/aerosol in the smoking system.

14 Claims, 15 Drawing Sheets



RAI Strategic Holdings, Inc.
Exhibit 2013
Philip Morris Products, S.A. v. RAI Strategic Holdings, Inc.
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Fig. 1

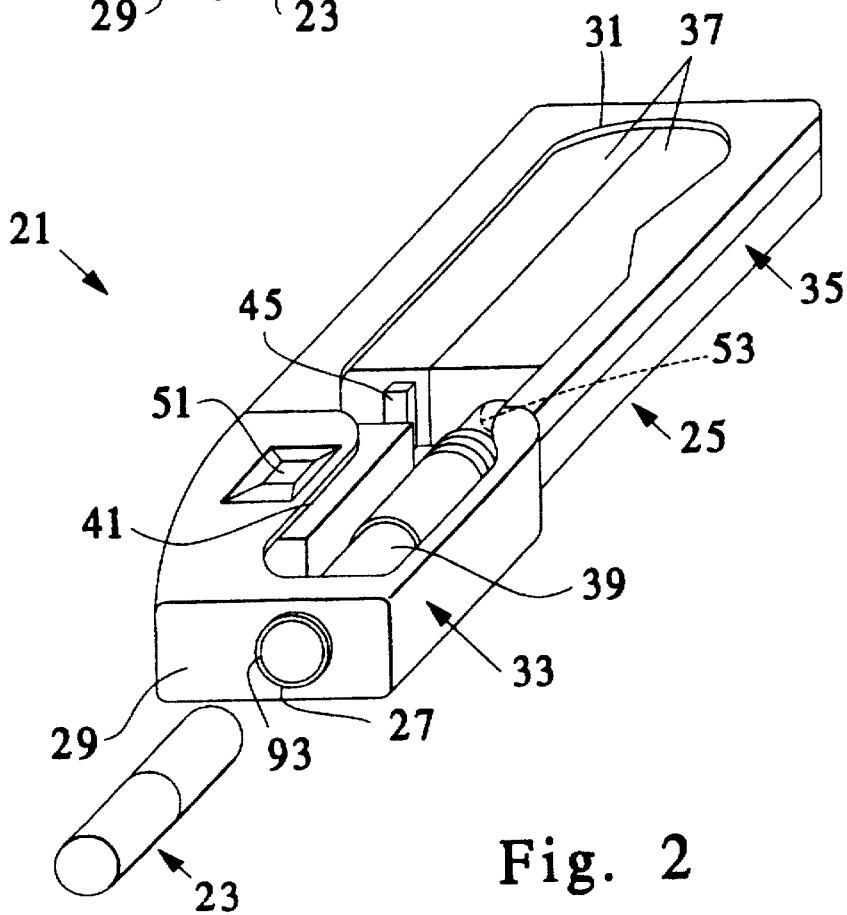
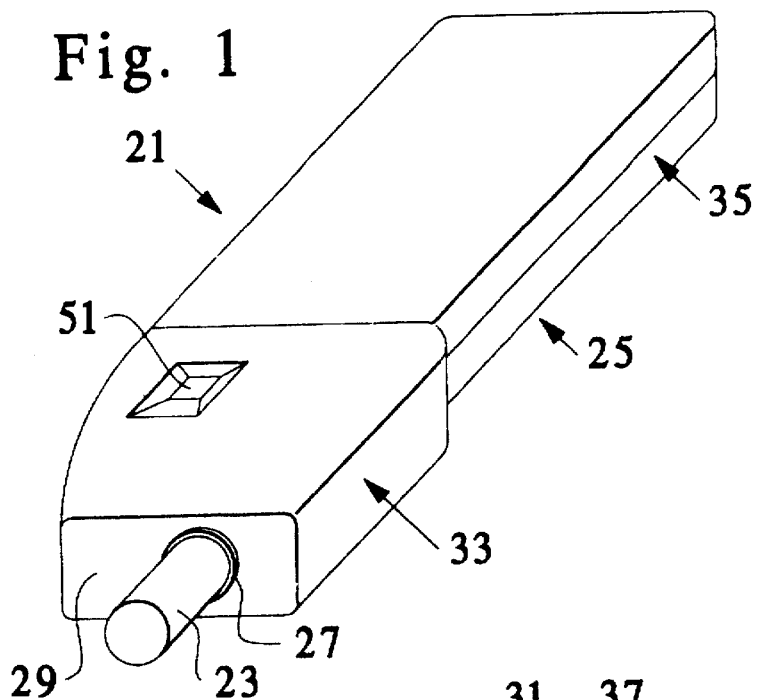


Fig. 2

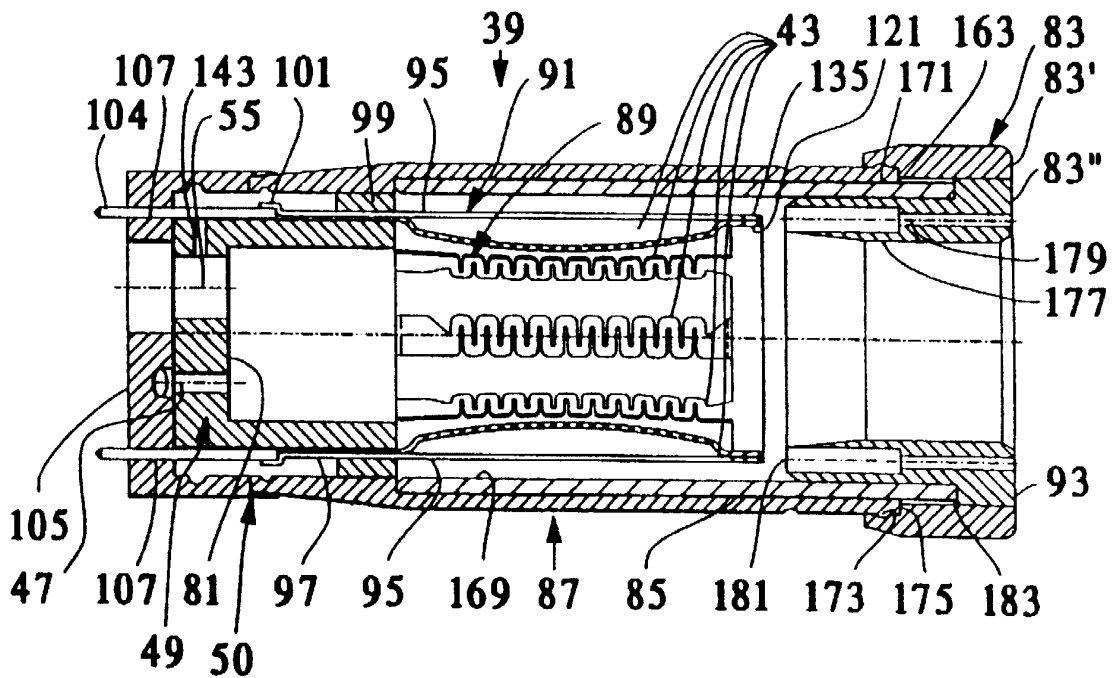


Fig.3A

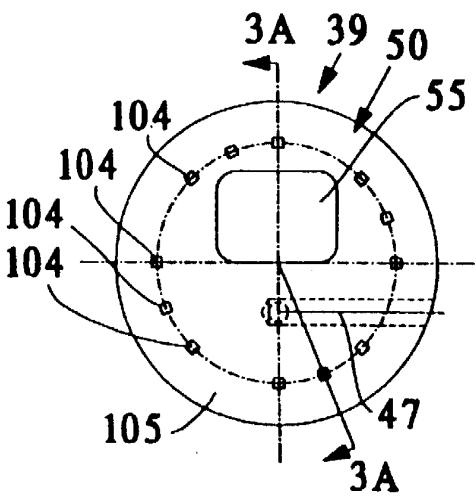


Fig.3B

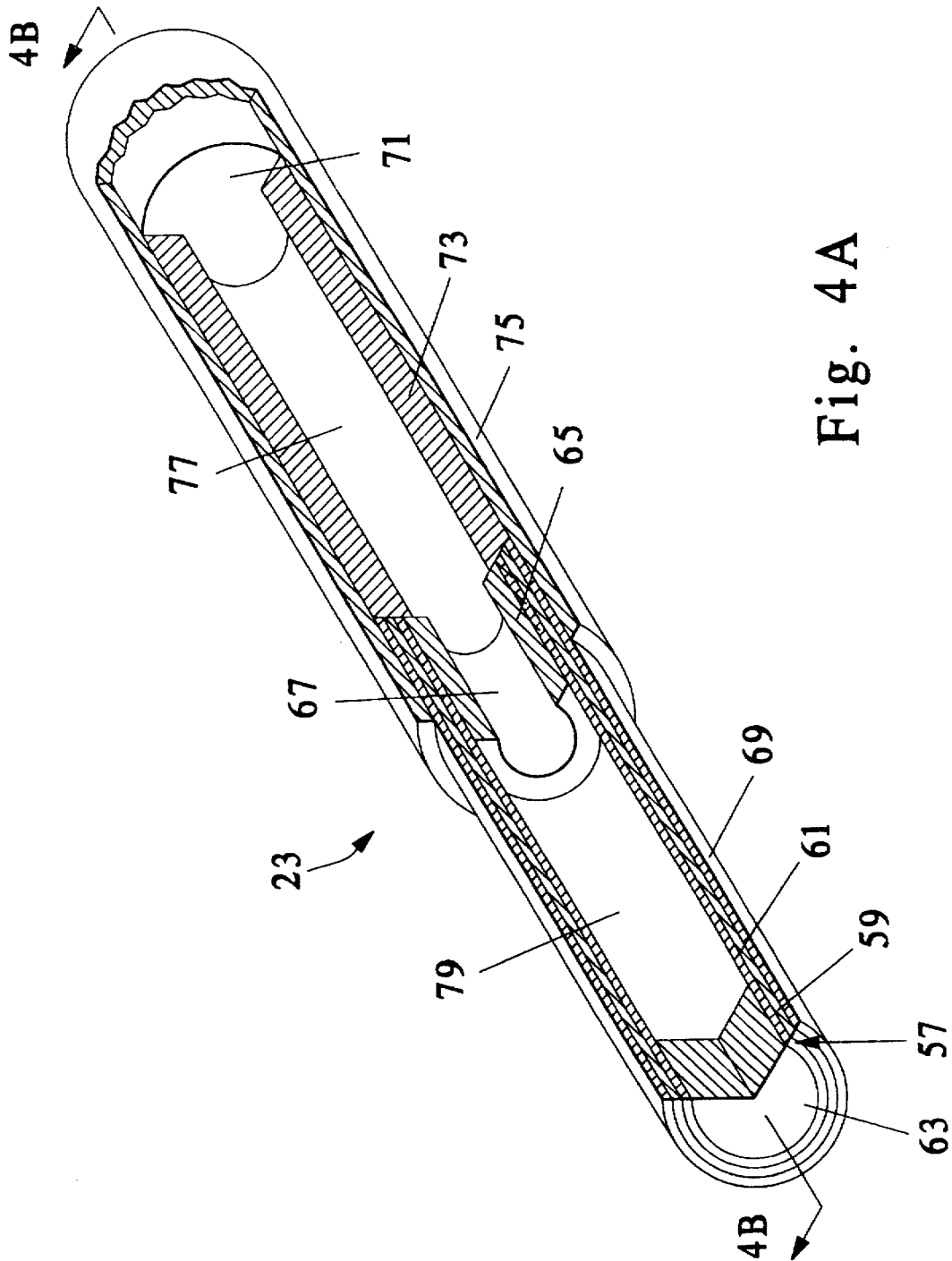


Fig. 4A

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