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# United States Patent [19]

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Collins et al.

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[54] **FLAVOR GENERATING ARTICLE**

[75] Inventors: **Alfred L. Collins**, Powhatan; **Mary Ellen Counts**, Richmond; **Amitabh Das**, Midlothian; **Seetharama C. Deevi**, Midlothian; **Grier S. Fleischhauer**, Midlothian; **Charles T. Higgins**; **Willie G. Houck, Jr.**, both of Richmond; **Billy J. Keen, Jr.**, Chesterfield; **Robert E. Lee, III**, Richmond; **A. Clifton Lilly, Jr.**, Chesterfield; **D. Bruce Losee, Jr.**, Richmond; **Hugh J. McCafferty**; **Constance H. Nichols**, both of Midlothian; **Wynn R. Raymond**, Chesterfield; **Robert L. Ripley**; **Renzer R. Ritt, Sr.**, both of Richmond; **G. Robert Scott**, Midlothian; **F. Murphy Sprinkel**, Glen Allen; **Michael L. Watkins**, Chester; **Susan E. Wrenn**, Chesterfield; **Francis V. Utsch**, Midlothian, all of Va.

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[73] Assignee: **Philip Morris Incorporated**, New York, N.Y.

[\*] Notice: The portion of the term of this patent subsequent to Sep. 10, 2013, has been disclaimed.

*Primary Examiner*—V. Millin  
*Assistant Examiner*—William J. Deane, Jr.  
*Attorney, Agent, or Firm*—Charles E. B. Glenn; James E. Schardt; James T. Moore

[21] Appl. No.: **448,906**

### [57] ABSTRACT

[22] Filed: **May 24, 1995**

A smoking article is provided in which a replaceable tobacco flavor unit containing tobacco flavor material is electrically heated by a set of permanent reusable heaters to evolve flavors or other components in vapor or aerosol form for delivery to a smoker. Each heater heats only a portion of the available tobacco flavor material so that a plurality of individual puffs of tobacco flavor substance can be delivered sequentially to the smoker. The replaceable tobacco flavor unit can also include a filter to reduce the effect of residual aerosol which settles or condenses on the permanent portions of the article and which can result in undesirable flavor generation when reheated. A method and apparatus for manufacturing the replaceable tobacco flavor unit is also provided.

### Related U.S. Application Data

[60] Division 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.<sup>6</sup> ..... **A24F 1/00**

[52] U.S. Cl. .... **131/194; 131/271; 131/329; 128/200.14; 128/202.21; 128/203.27**

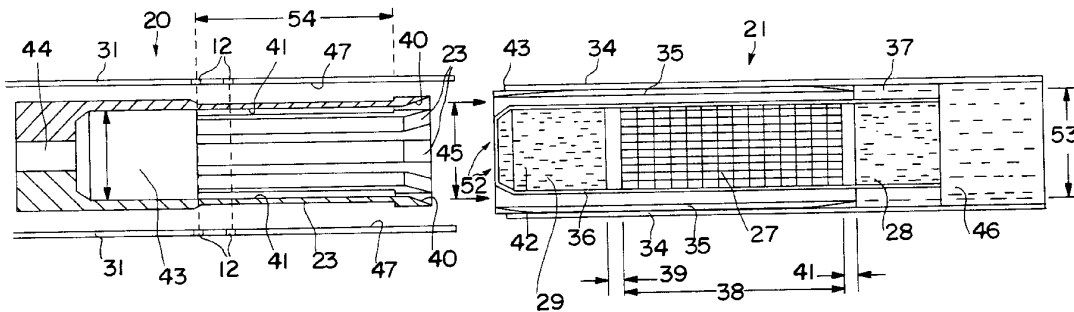
[58] Field of Search ..... **131/194, 329, 131/271; 128/202.21, 203.27, 200.14**

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**75 Claims, 12 Drawing Sheets**



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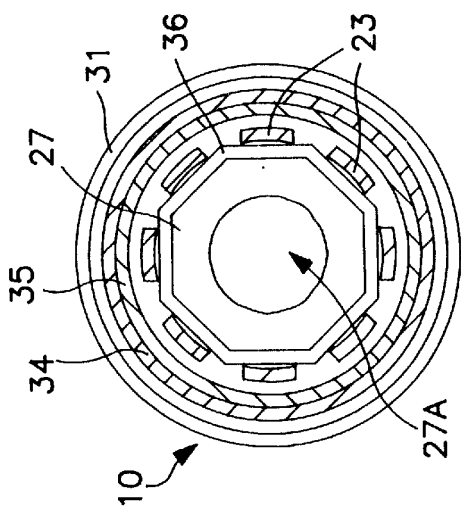


FIG. 3A

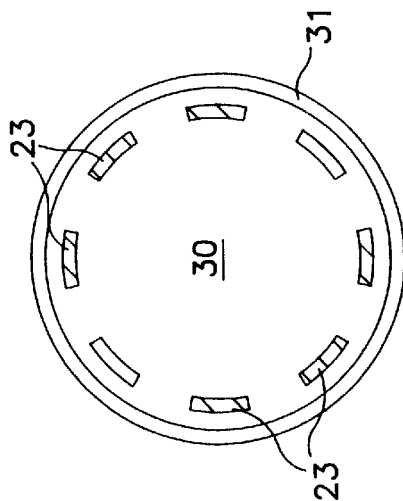


FIG. 3

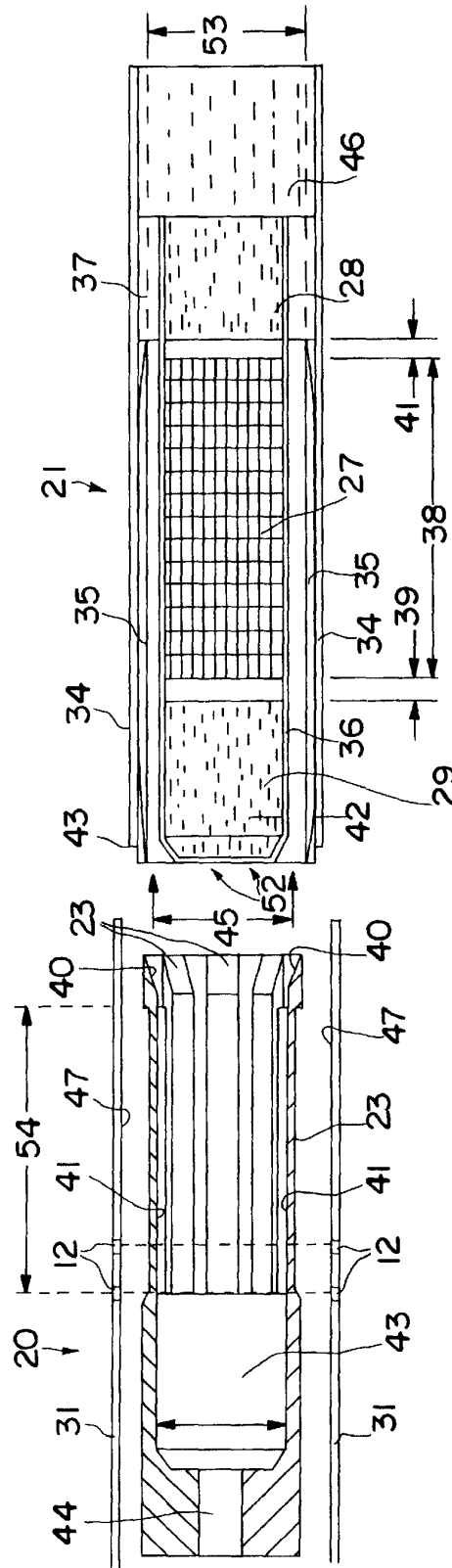


FIG. 4

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