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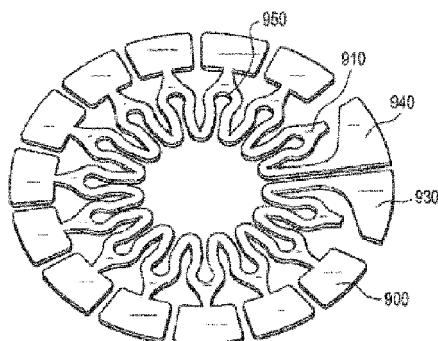
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(54) **HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT**

(57) Disclosed is a heater assembly comprising a heating element. The heating element includes a planar portion including a filament, the filament defining an air channel through the planar portion, and being arranged so as to form a plurality of curves. The plurality of curves include a closed end, an open end, and a tip extending away from the air channel thereon, the tip of each of the curves being generally rectangular in shape. The heating

element further includes a first lead portion and a second lead portion, at one of the first lead portion, the second lead portion, or the first lead portion and second lead portion being coplanar with the heating element; and a support, with the heating element being in contact with the support such that the tip of each one of the curves rests thereon.

FIG. 9





## EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10	<b>A</b> WO 2016/172448 A1 (ALTRIA CLIENT SERVICES LLC [US]) 27 October 2016 (2016-10-27) * paragraph [0016] * * paragraph [0074]; figure 3B * ----- <b>A</b> CN 104 770 893 B (CHINA TOBACCO YUNNAN IND CO LTD) 10 November 2017 (2017-11-10) * paragraph [0042] - paragraph [0050]; figures 1-4 * ----- <b>A</b> US 2018/125120 A1 (GAVRIELOV SHMUEL [US] ET AL) 10 May 2018 (2018-05-10) * paragraph [0125] - paragraph [0127]; figures 10A-10B * * paragraph [0113] - paragraph [0121]; figures 7, 8 * * paragraph [0073] - paragraph [0103]; figure 2 * ----- 	1-14	INV. H05B3/44 H05B3/04 A24F40/46
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50	<b>1</b> The present search report has been drawn up for all claims Place of search   Date of completion of the search   Examiner <b>Munich</b>   <b>11 September 2023</b>   <b>Barzic, Florent</b> CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		
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ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 23 16 7408

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