

Henry Horsewell 4/15/81 US Application

Figures & Claims

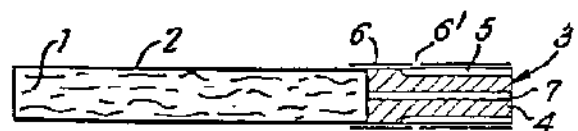


FIG. 1



FIG. 1a

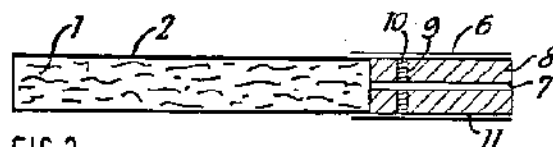


FIG. 2

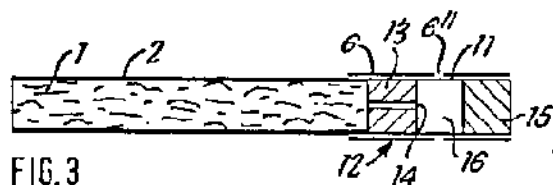


FIG. 3

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What is claimed is:

1. A smoking article comprising a smoking-material rod and, to one end thereof, a flow-impedance device comprising a rod-like element of foam or fibrous material impervious to the flow of smoke therethrough and at least one open-ended smoke-flow passage means extending from one end to the other of the element, the pressure drop of the said passage means, determined at a flow rate through the device of 17.5 cm^3 per second, being in the range from 40 to 200 mm water gauge and said device being enclosed in a wrapping permitting inward and said flow of ambient air therethrough into the device, the said device having air-conducting means whereby air flowing inwardly through the said wrapping can be conducted to and outwardly from the mouth end of the said device, which device is effective to remove not more than 25% of the total particulate matter of the smoke passing through the device when the smoking article is smoked.

2. A smoking article according to claim 1, wherein the said pressure drop is in the range from 50 to 100 mm water gauge.

3. A smoking article according to claim 1 or 2, wherein the said removal of total particulate matter does not exceed 20%.

4. A smoking article according to claim 1 or 2 wherein the said smoke-flow passage means is formed as at least one bore in the said material.

5. A smoking article according to claim 1 or 2, wherein

the said smoke-flow passage means is defined by at least one capillary tube.

6. A smoking article according to claim 1 or 2, wherein a single smoke-flow passage has an internal diameter in the range of from 0.5 to 1.5 mm.

7. A smoking article according to claim 1 or 2, having a said smoke-flow passage disposed co-axially in the rod shaped element.

8. A smoking article according to claim 1, wherein a smoke-impervious barrier is provided at a location, in the said rod-shaped element, remote from the mouth end thereof.

9. A smoking article according to claim 1, wherein the said air-conducting means comprises at least one air-flow passage extending from a location short of the tobacco end of the element to the mouth end thereof.

10. A smoking article according to claim 10, wherein the said smoke-flow passage means comprises a co-axial passage and at least one air-flow passage is located at the periphery of the rod-shaped element.

11. A smoking article according to claim 1, wherein the said device further comprises a low-pressure drop filter spaced from the downstream end of the rod-shaped element.

12. A smoking article according to claim 1 and comprising a recess at the mouth end of the rod-shaped element.

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