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Meiller et al.

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(54) **HYDROCARBON BLEED EMISSION
SCRUBBER WITH LOW RESTRICTION**

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patent is extended or adjusted under 35
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Related U.S. Application Data

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2000.

(51) Int. Cl.⁷ **B01D 53/04**; B01D 53/34;
F02M 33/02; B01J 20/00; B60L 1/02

(52) U.S. Cl. **422/180**; 123/519; 502/416;
219/202

(58) Field of Search 422/168, 177,
422/180; 502/417, 427, 436, 180, 518,
527, 19, 416; 55/523, 524; 219/202, 206;
392/491; 123/516, 519, 520, 521

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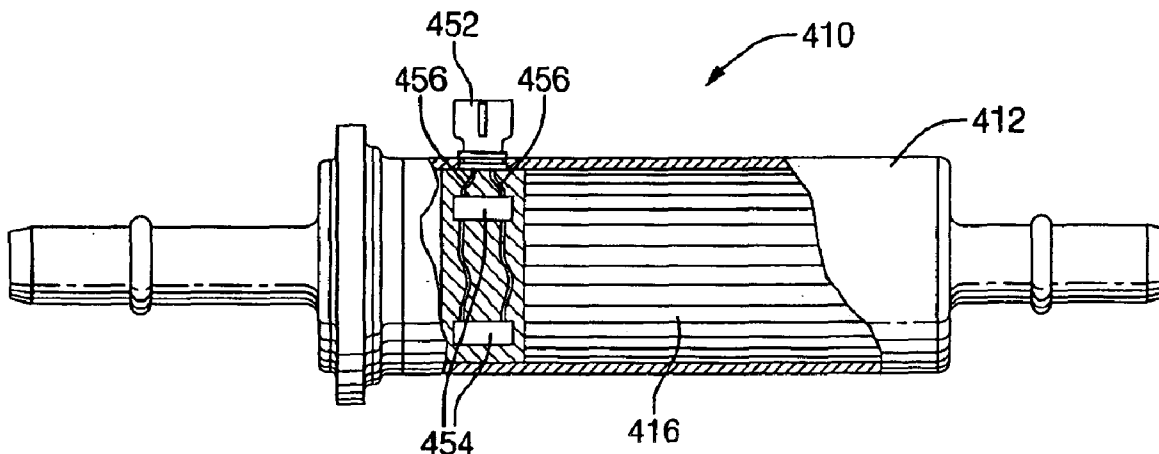
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(57) **ABSTRACT**

A hydrocarbon emissions scrubber for use in an evaporative emissions control system of a motor vehicle includes a scrubber element having an elongate body. The body defines a plurality of passageways for the flow of fluid therethrough. The plurality of passageways are one of coated with or constructed of a sorbent material. The sorbent material is adsorptive of hydrocarbons.

6 Claims, 5 Drawing Sheets



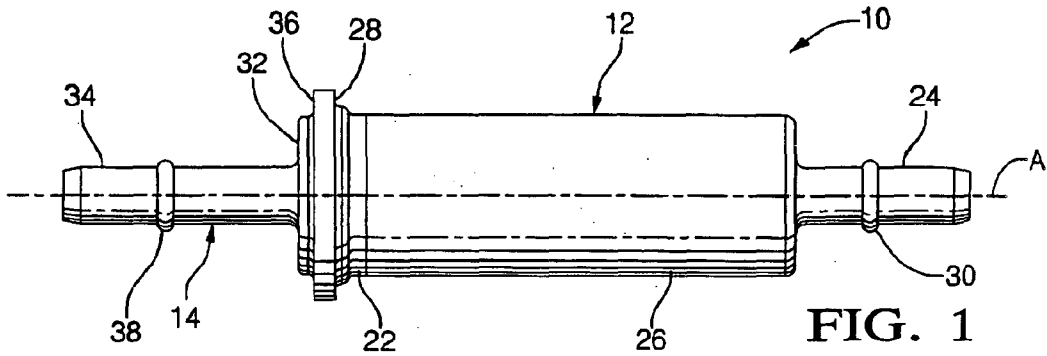


FIG. 1

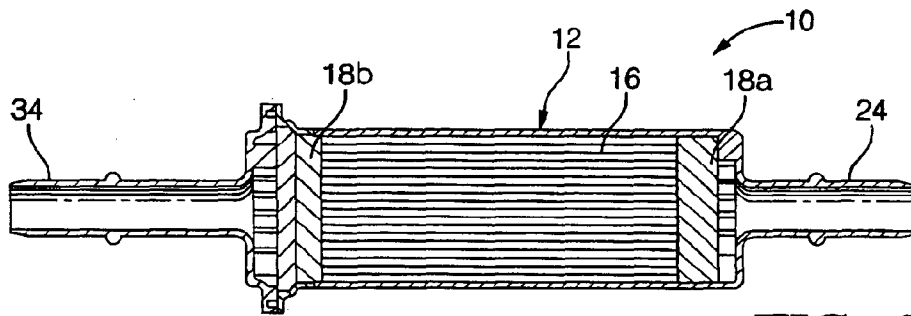


FIG. 2

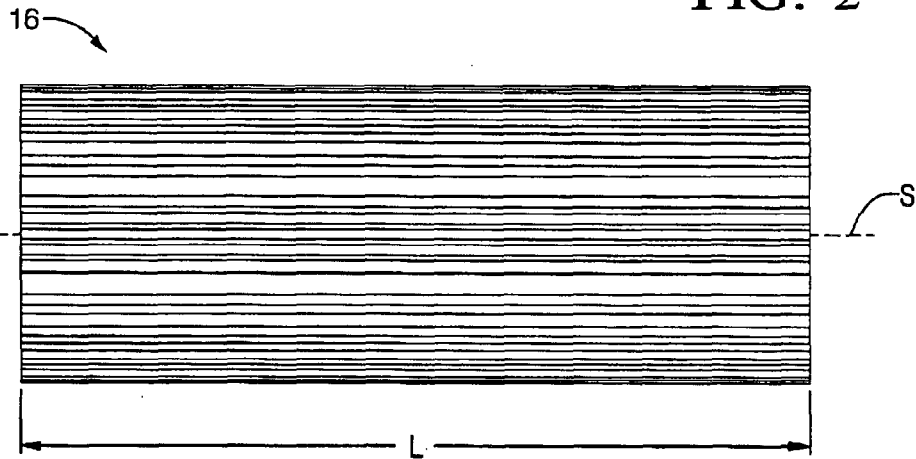


FIG. 3A

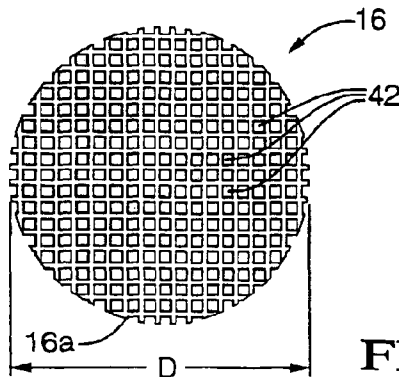


FIG. 3B

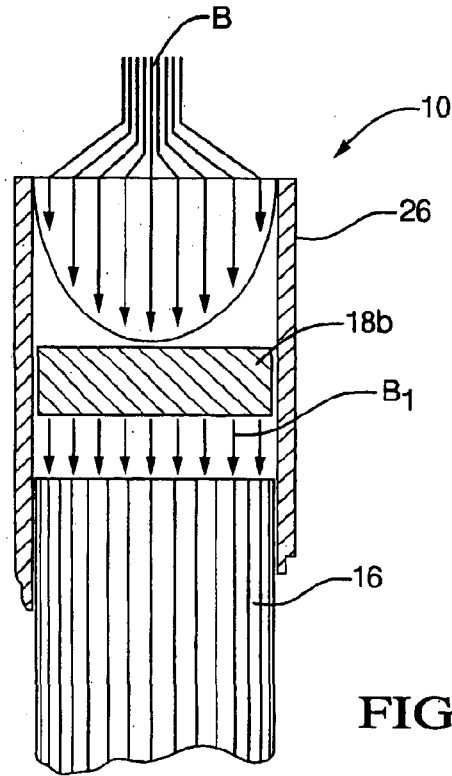


FIG. 5

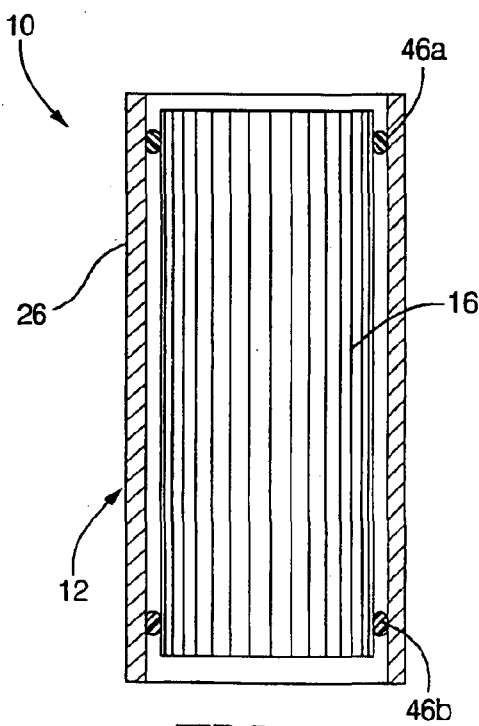


FIG. 6

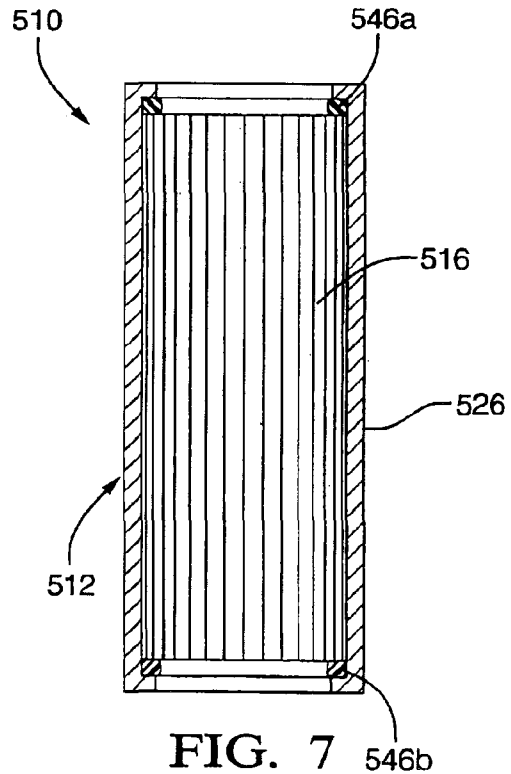


FIG. 7

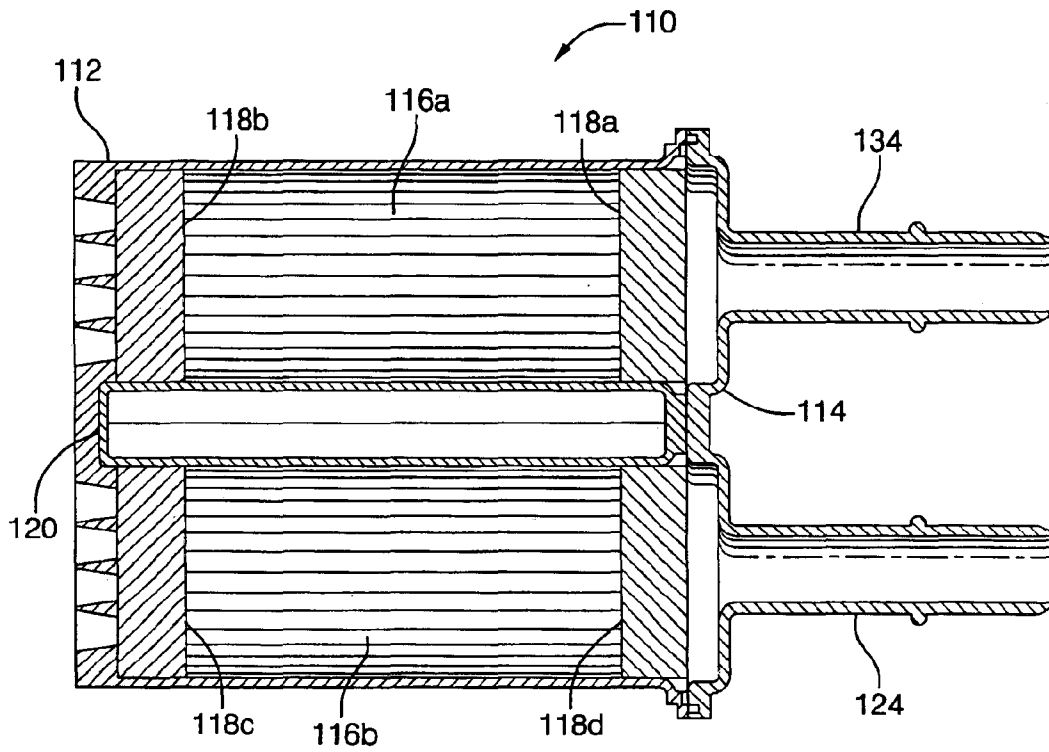


FIG. 8

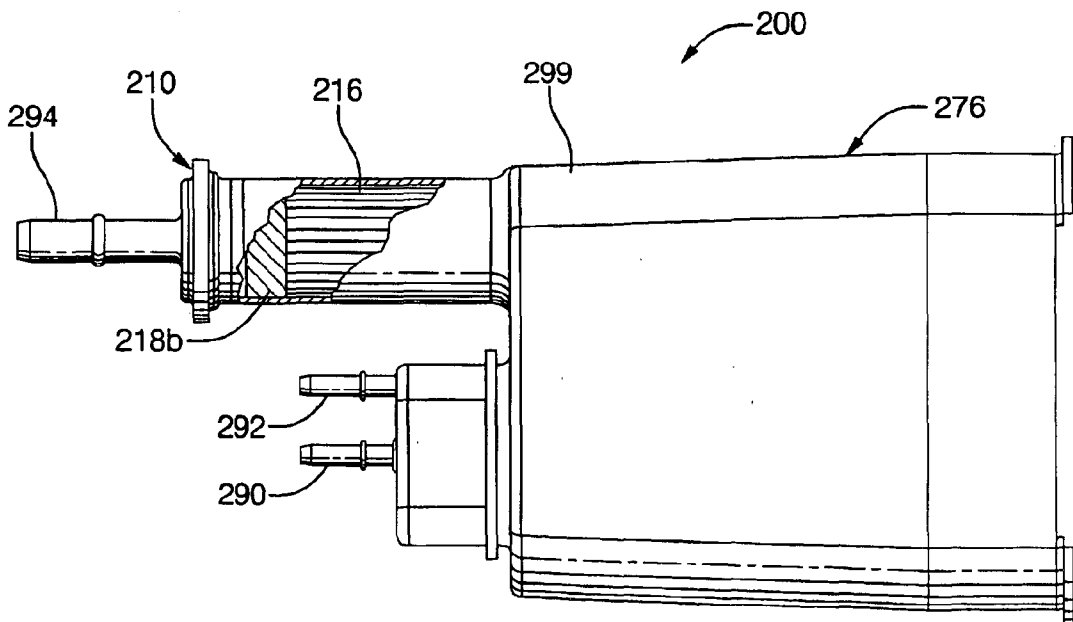


FIG. 9

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