

ABSTRACT

POWDER DISPERSION DEVICES AND METHODS

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A dry powder inhaler may include a powder storage, an inlet channel, a dispersion chamber, and an outlet channel. A geometry of the inhaler may be such that a flow profile is generated within the dispersion chamber that causes an actuator to oscillate, enabling the actuator when oscillating to deaggregate powdered medicament within the dispersion chamber to be aerosolized and entrained by the air and delivered to a patient through the outlet channel.

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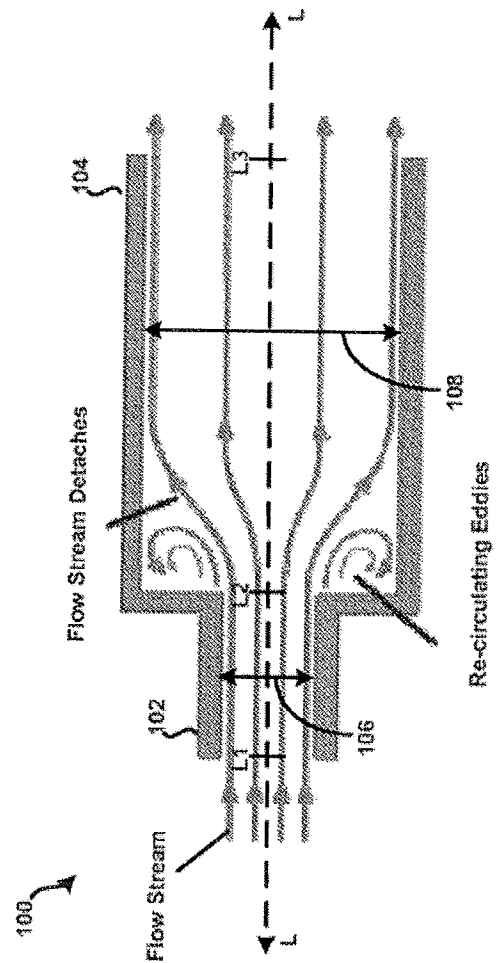


FIG. 1

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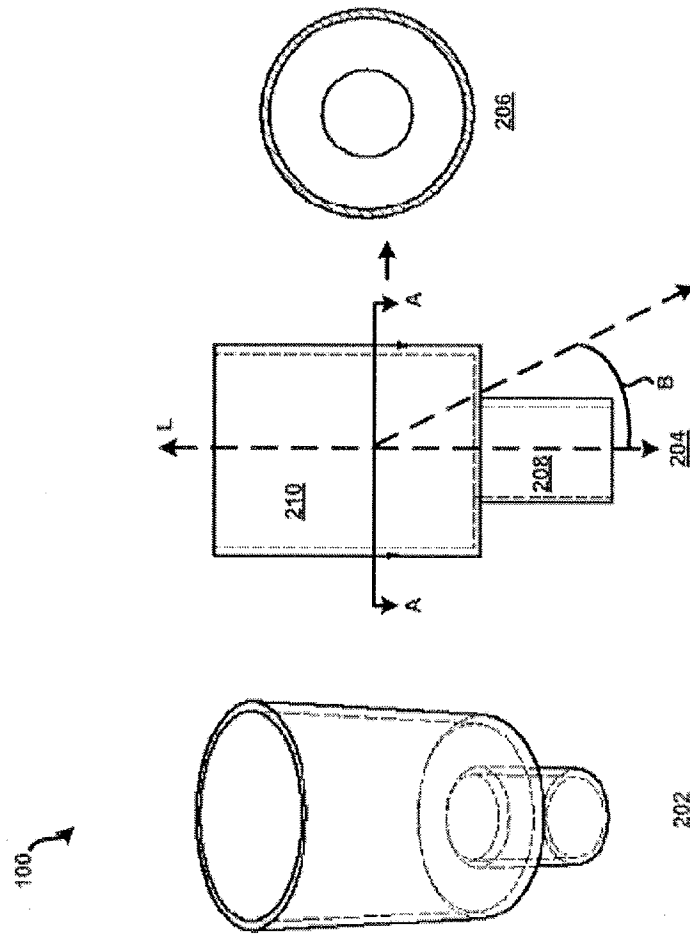


FIG. 2

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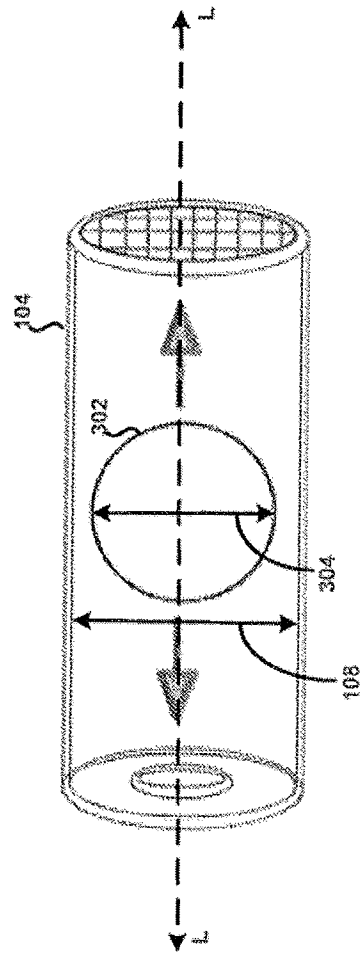


FIG. 3

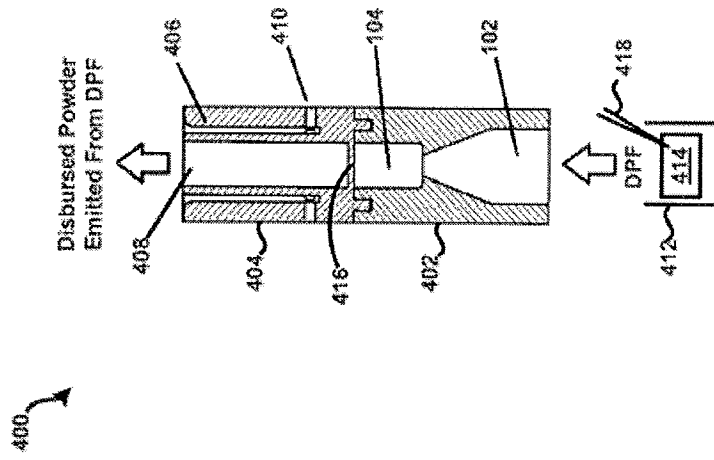


FIG. 4

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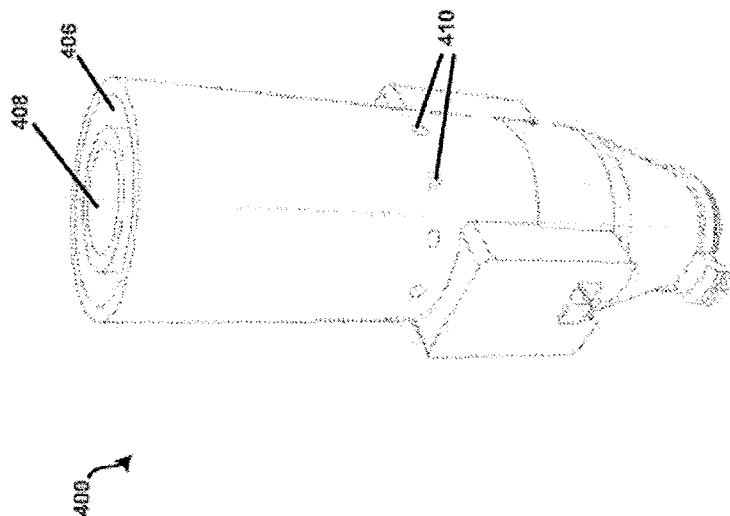


FIG. 5

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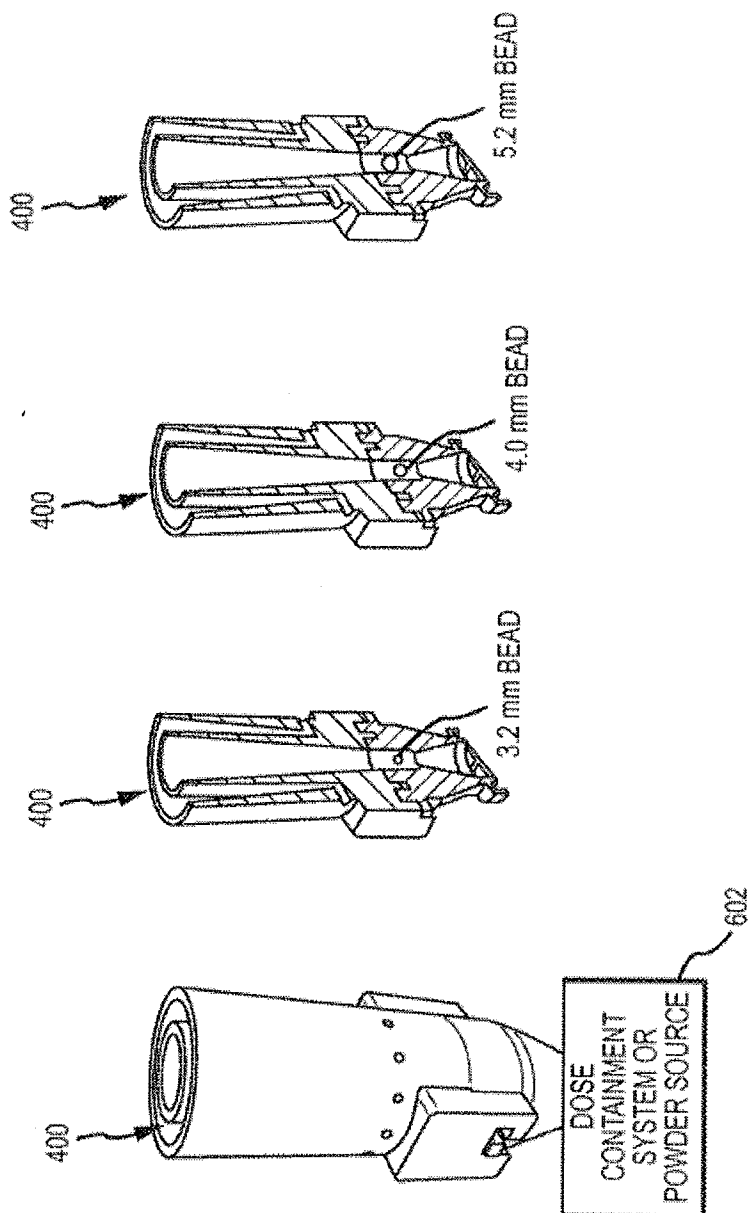
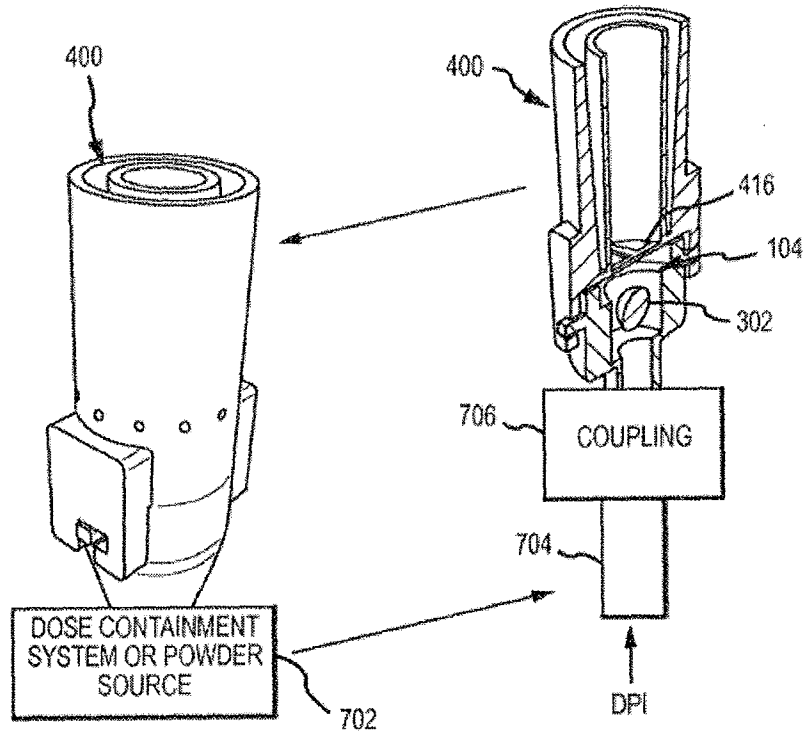


FIG.6

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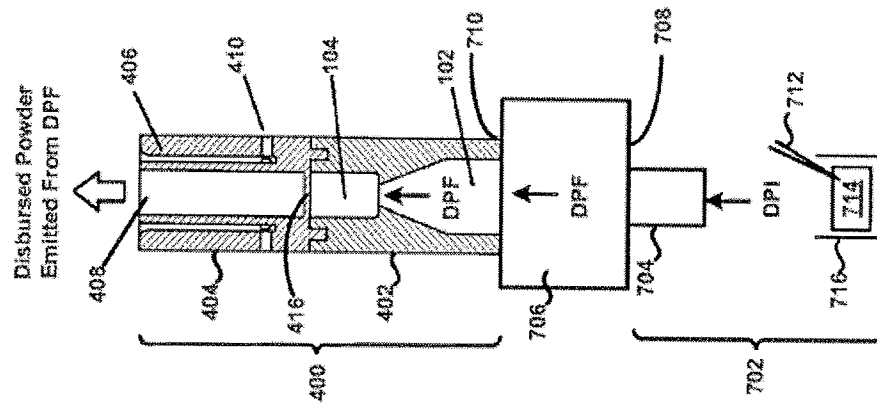


FIG. 8

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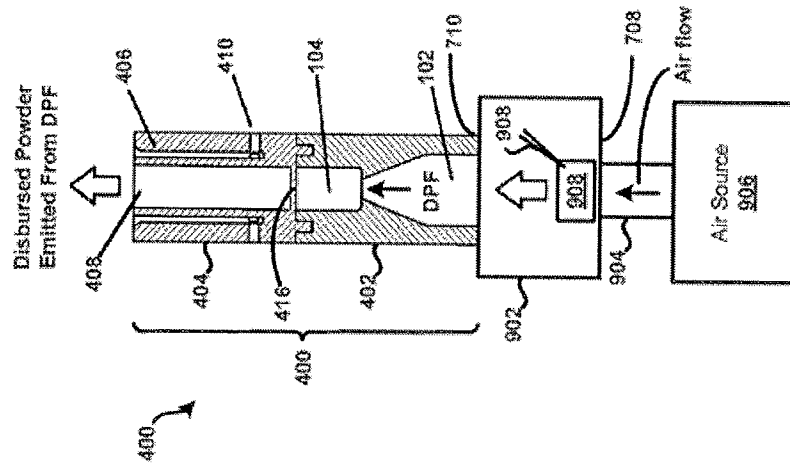
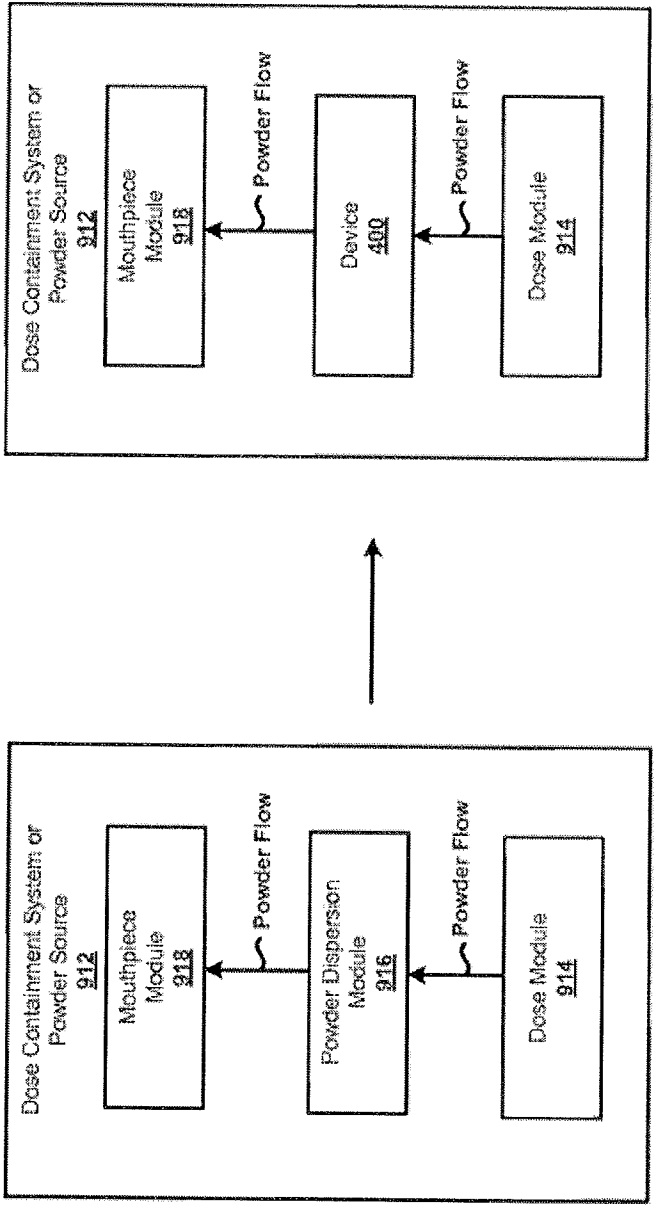


FIG. 9

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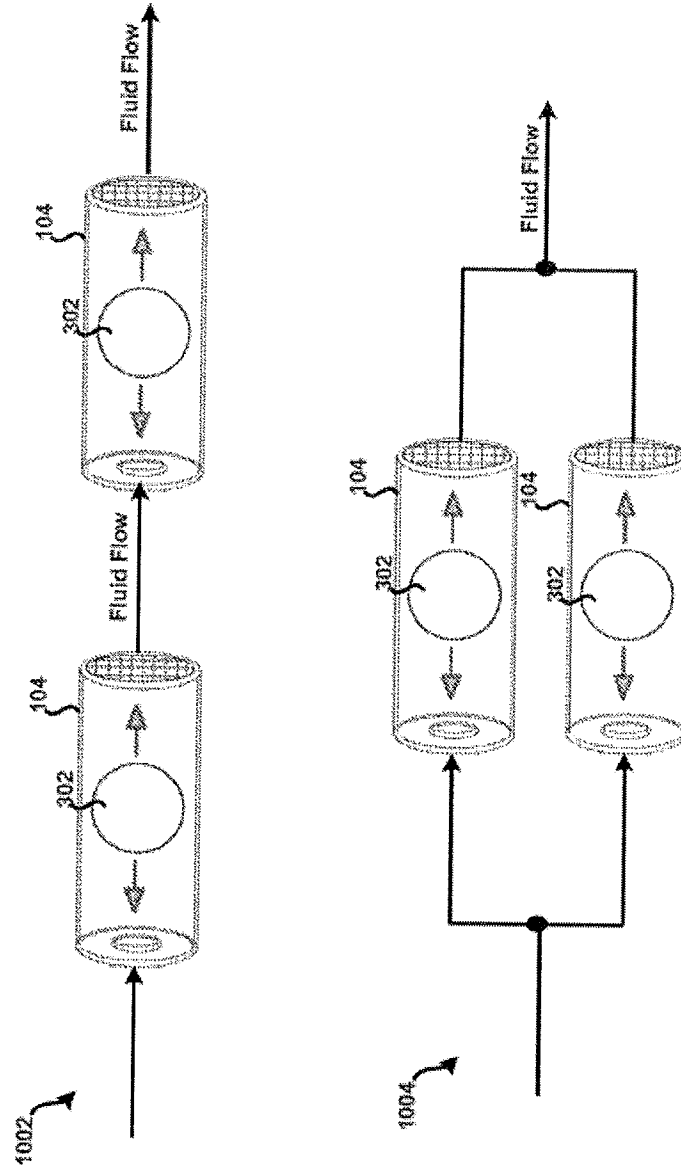


FIG. 11

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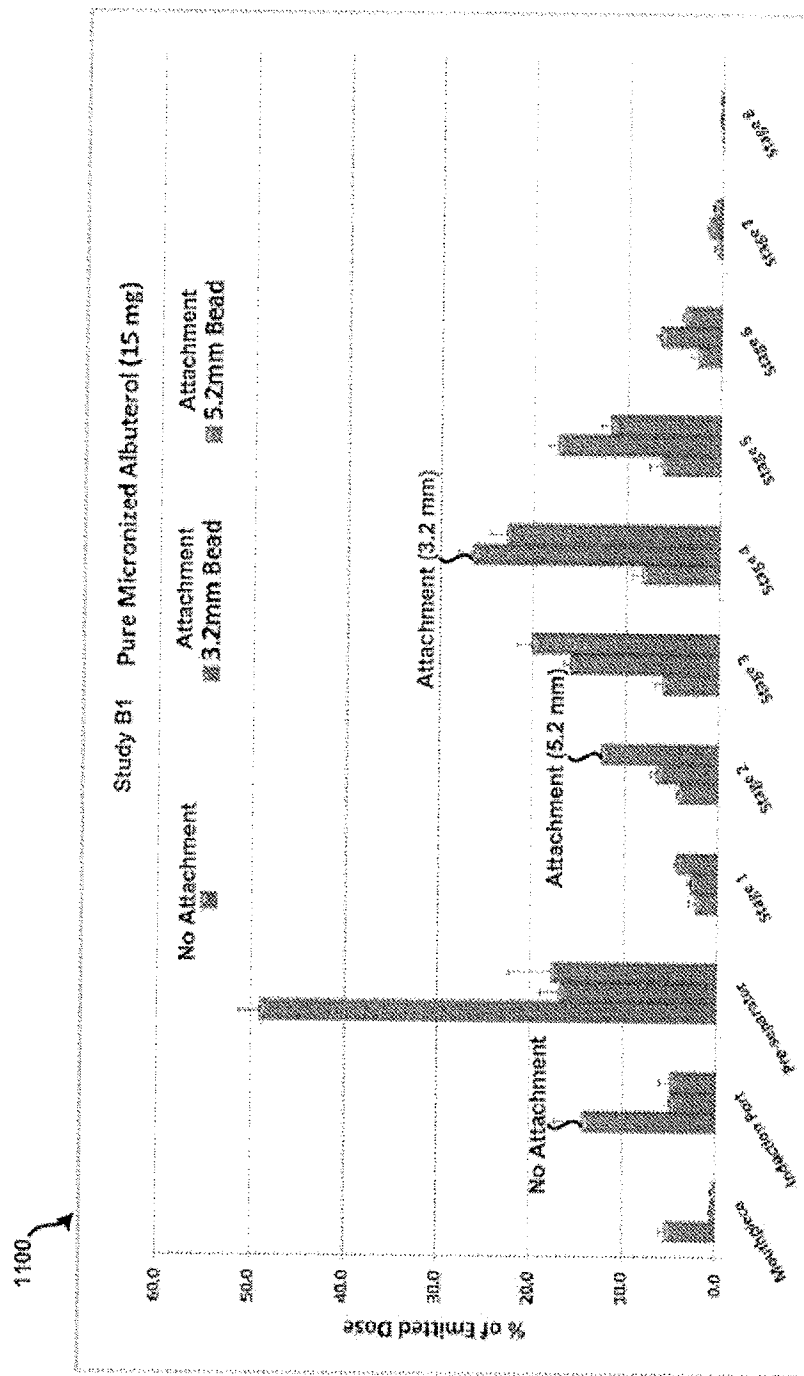


FIG. 12

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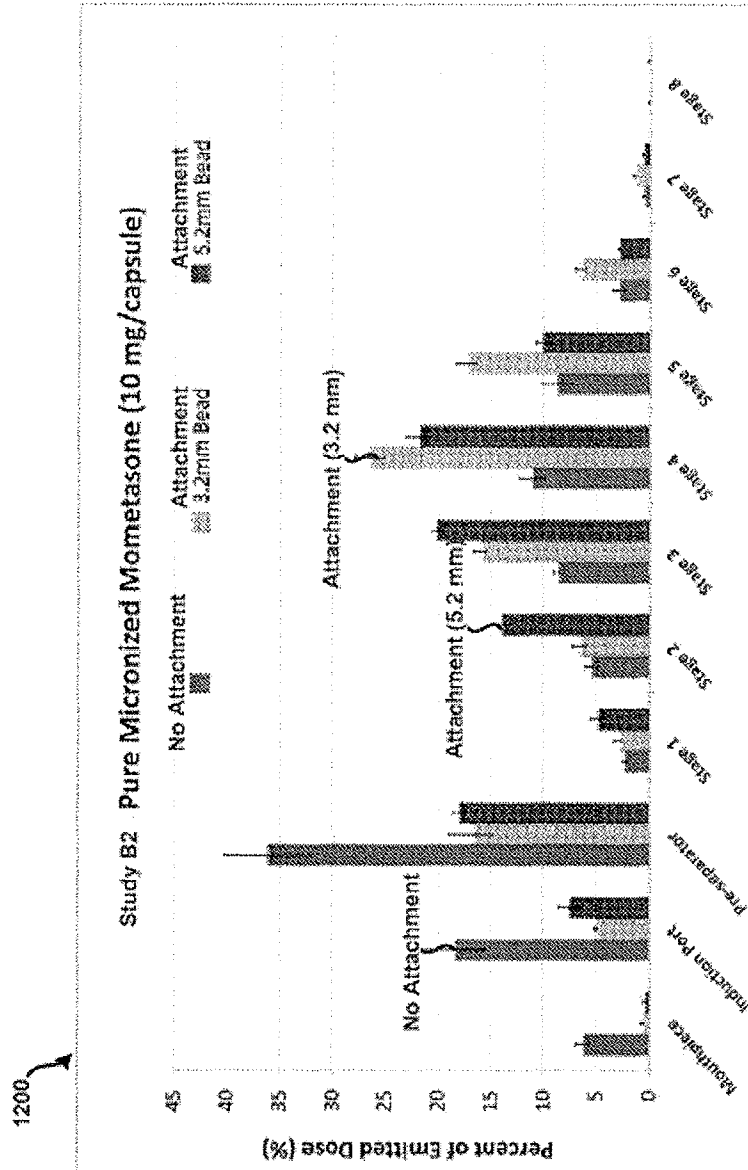
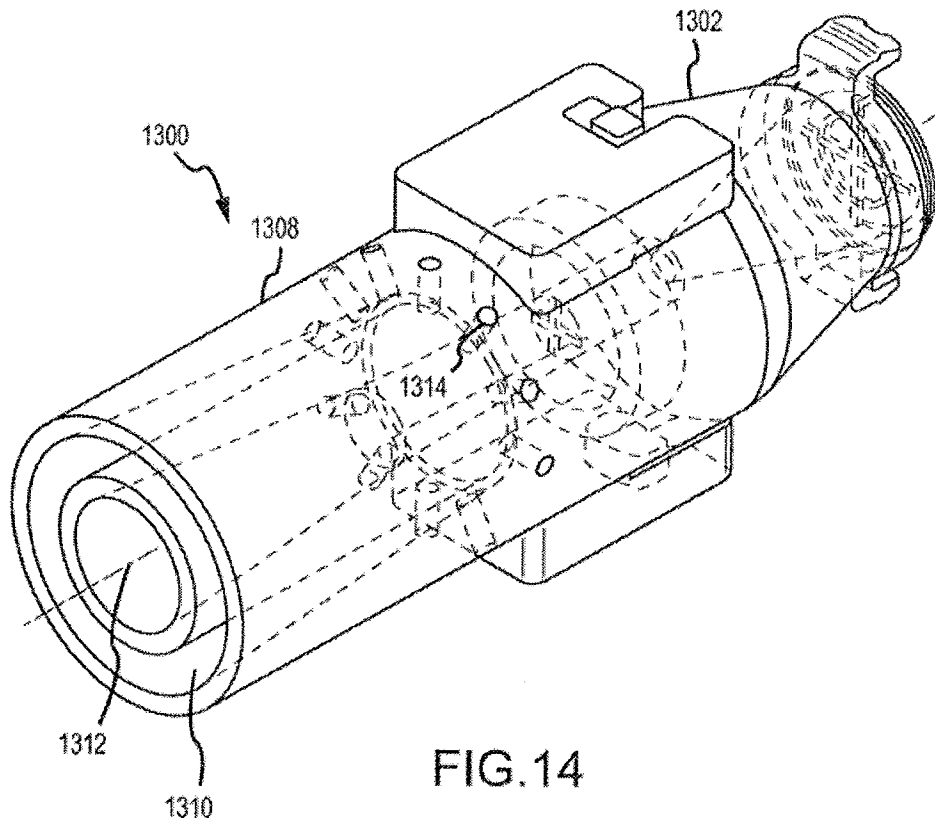


FIG. 13

Aparna Kareer
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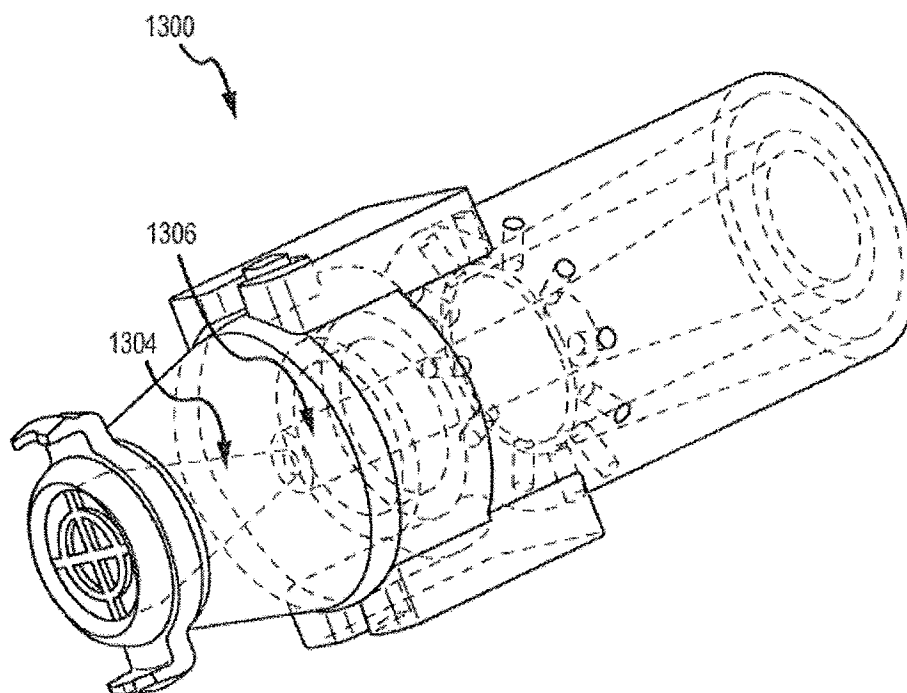


FIG.15

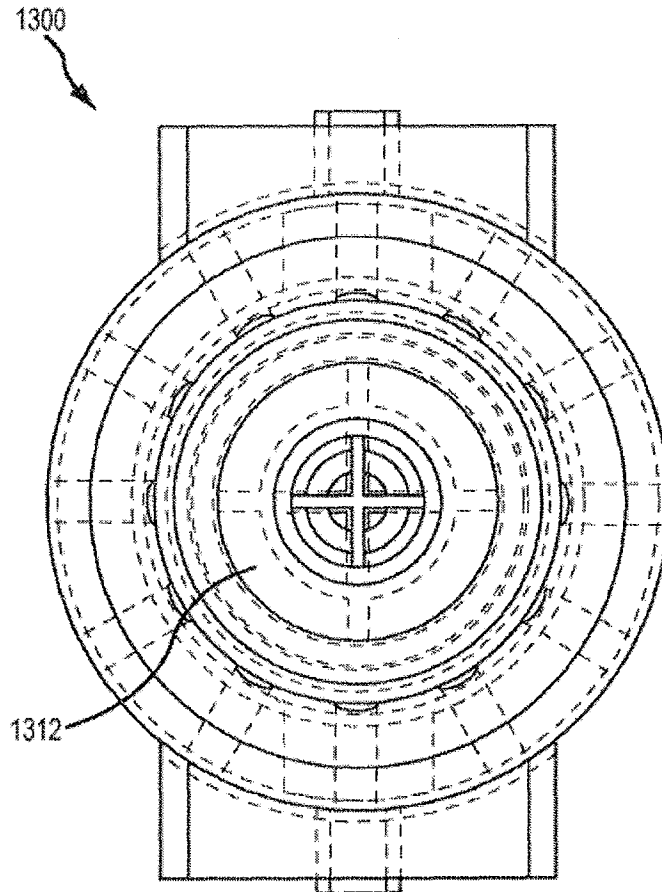


FIG.16

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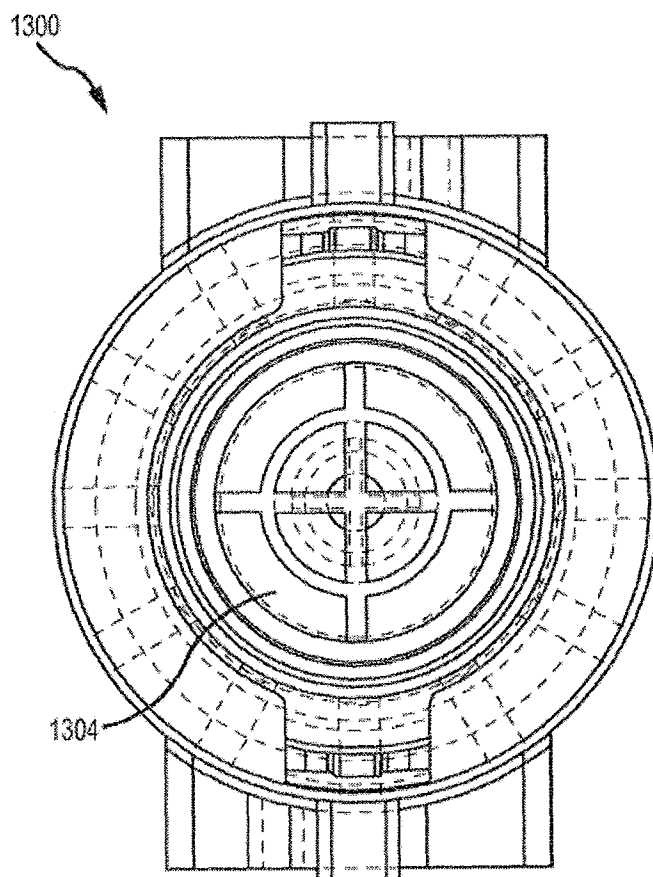


FIG.17

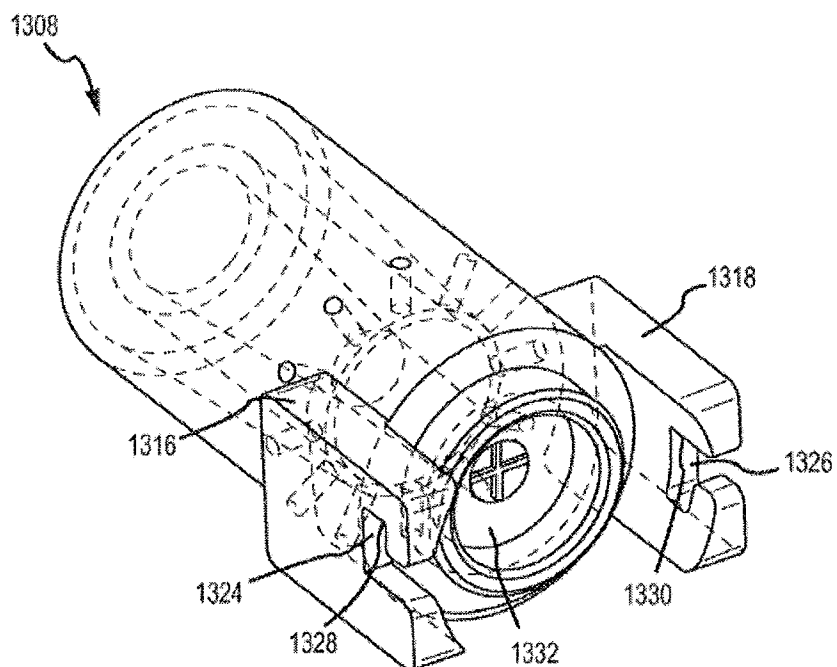


FIG.18

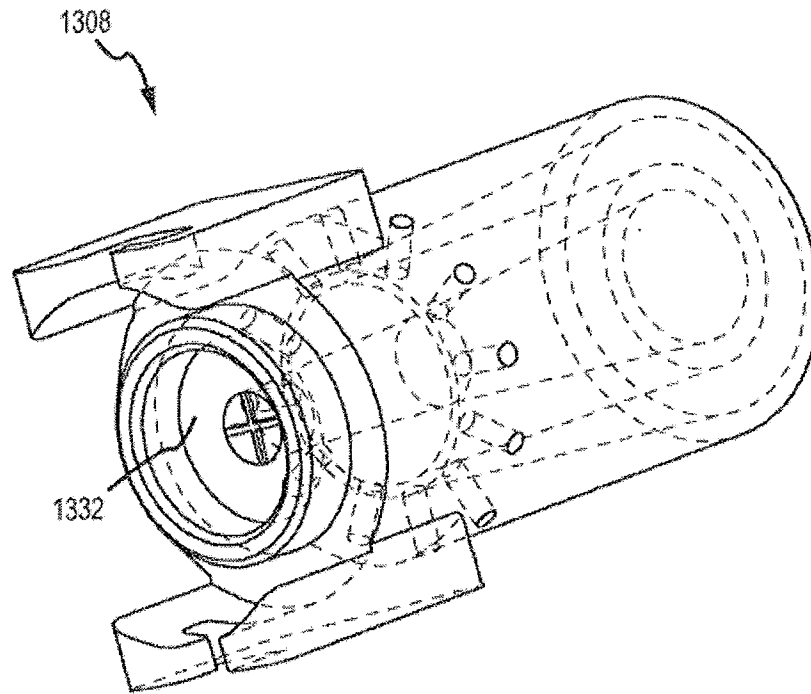


FIG.19

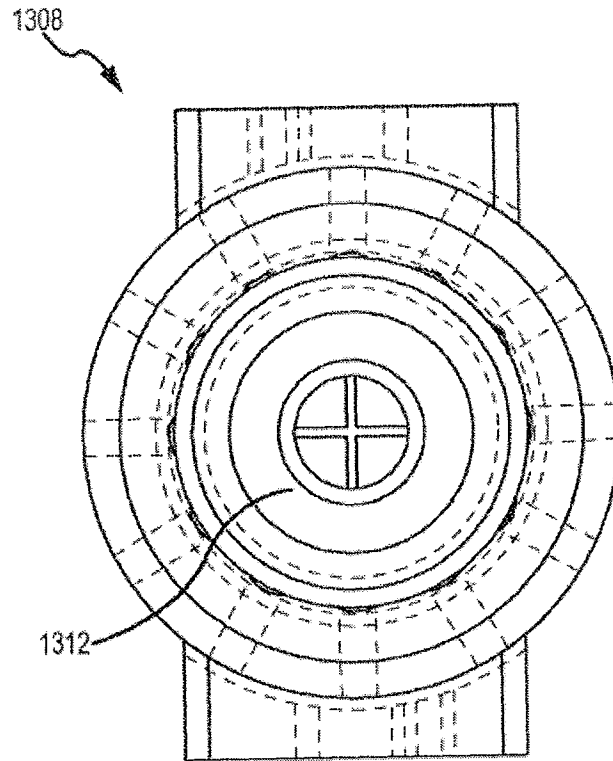


FIG.20

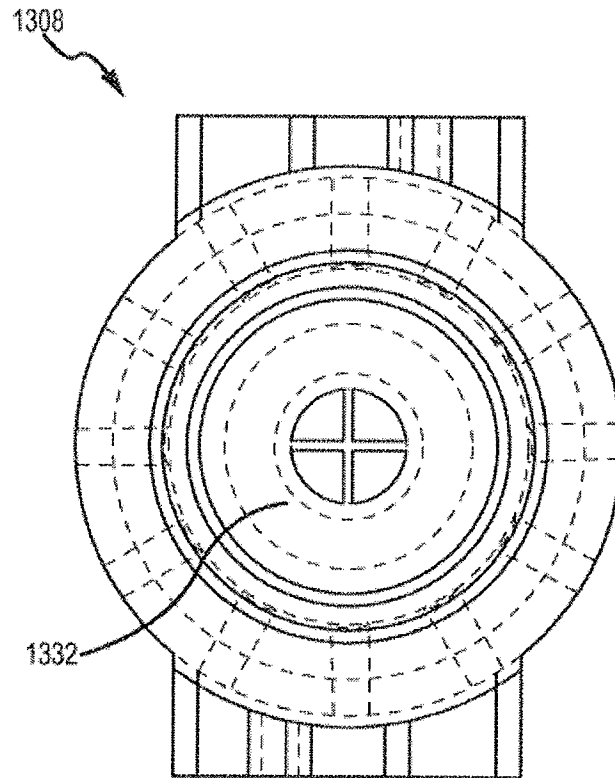


FIG.21

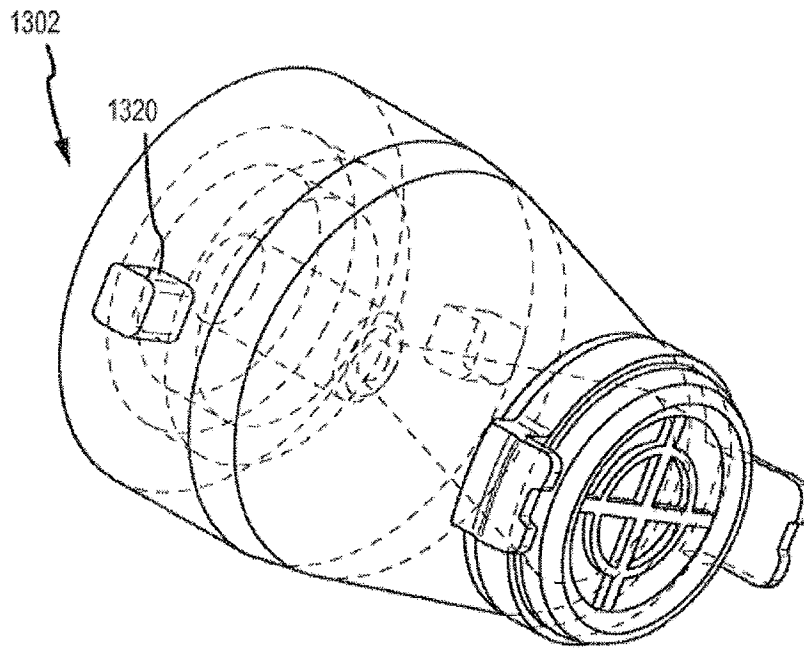


FIG.22

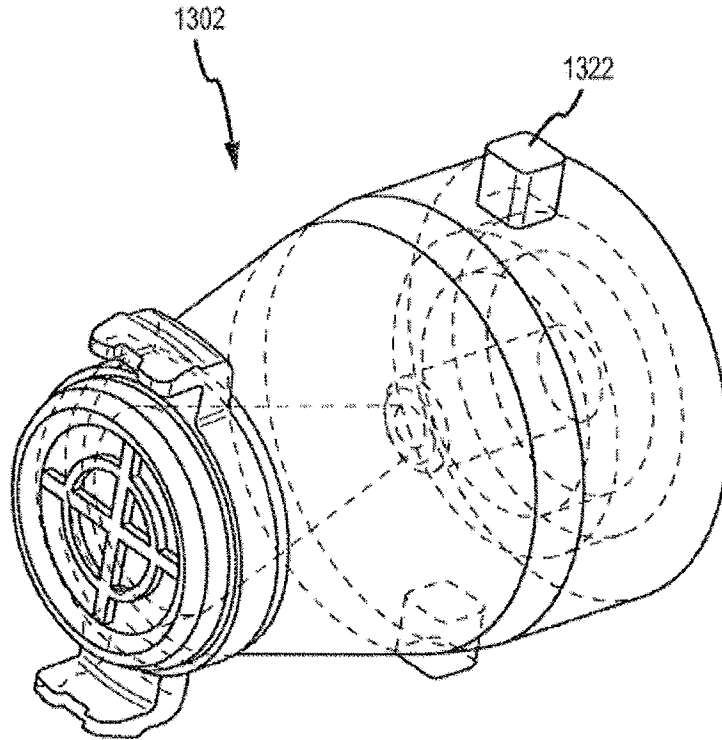


FIG. 23

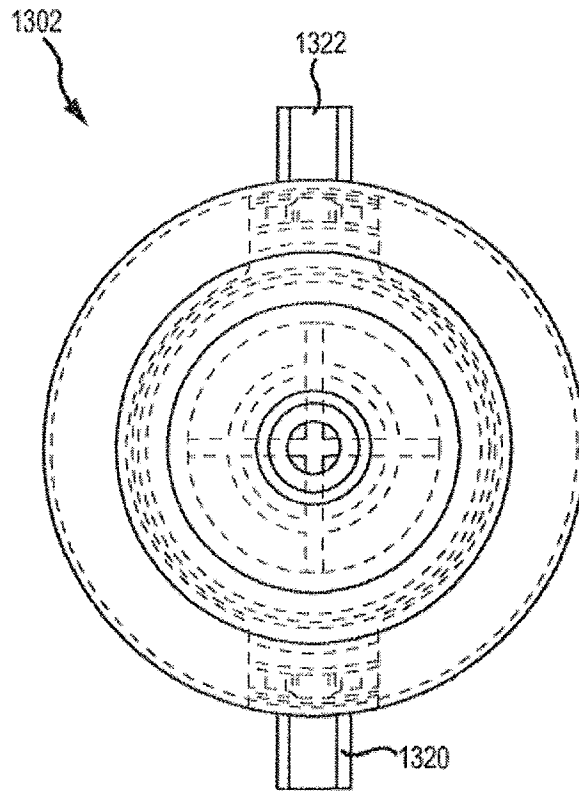


FIG. 24

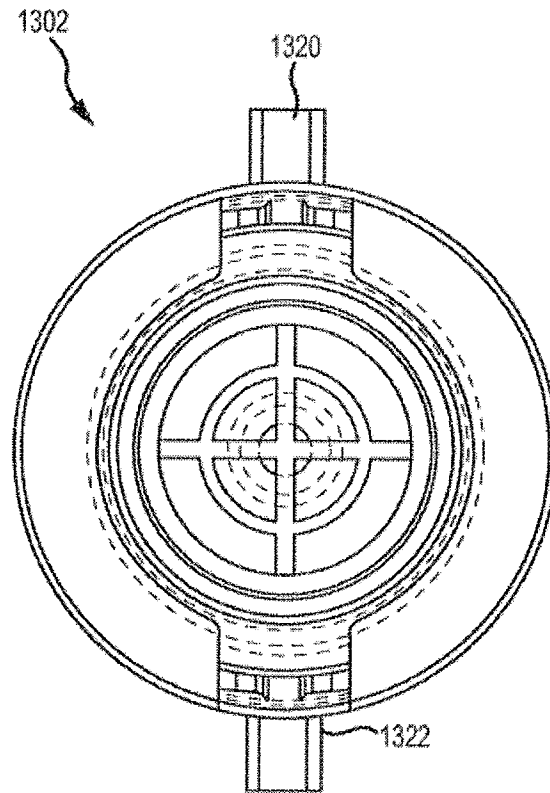


FIG. 25

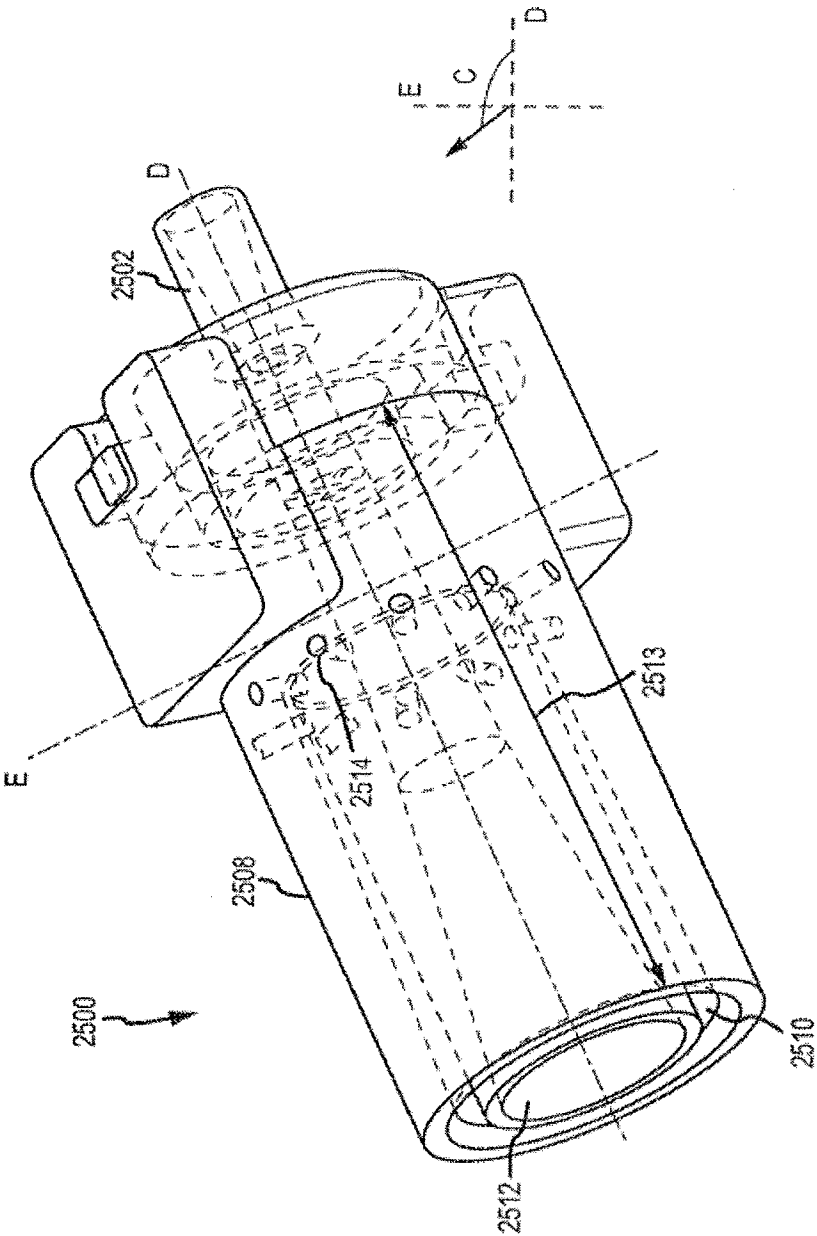


FIG. 26

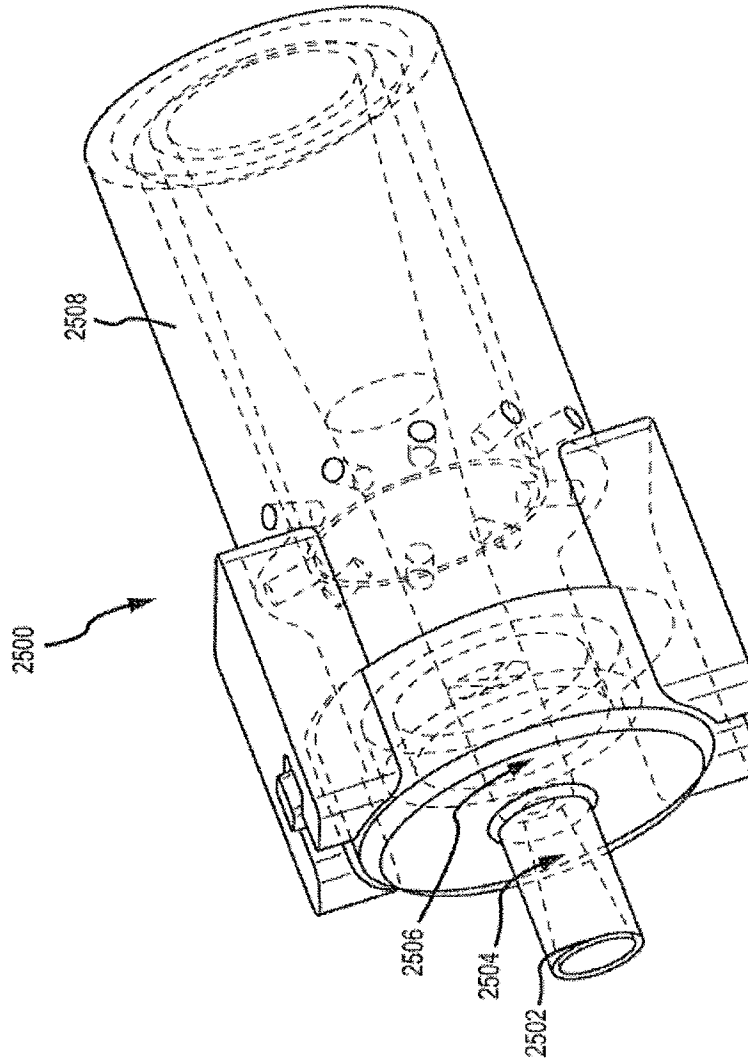


FIG. 27

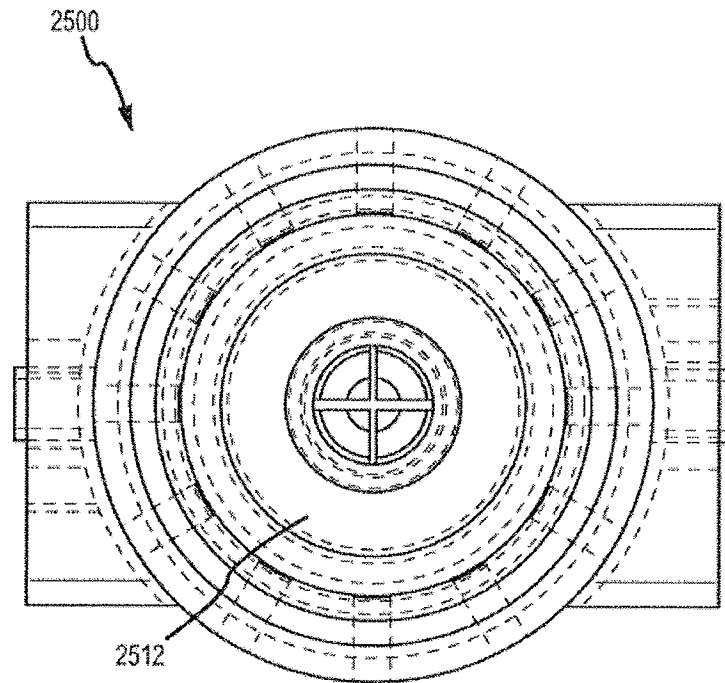


FIG.28

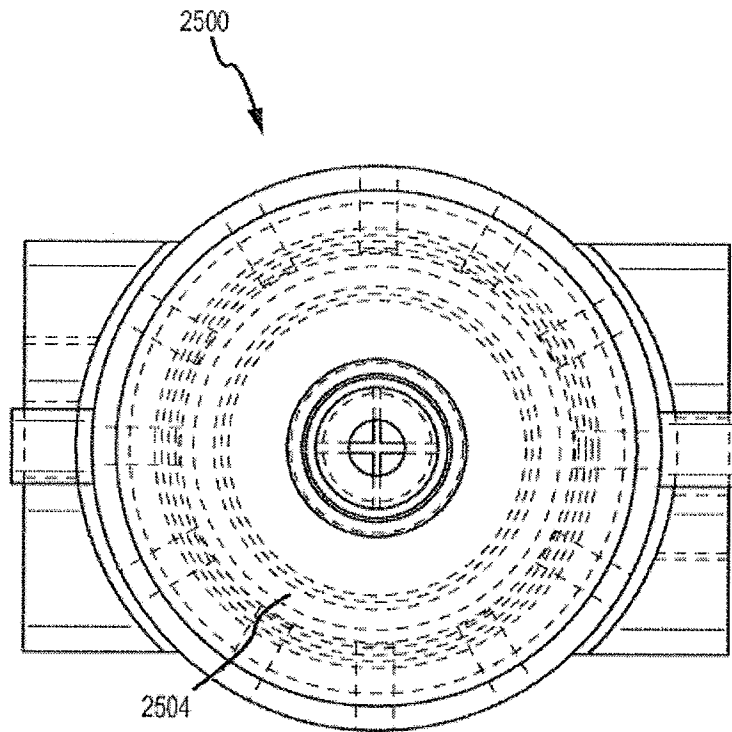


FIG.29

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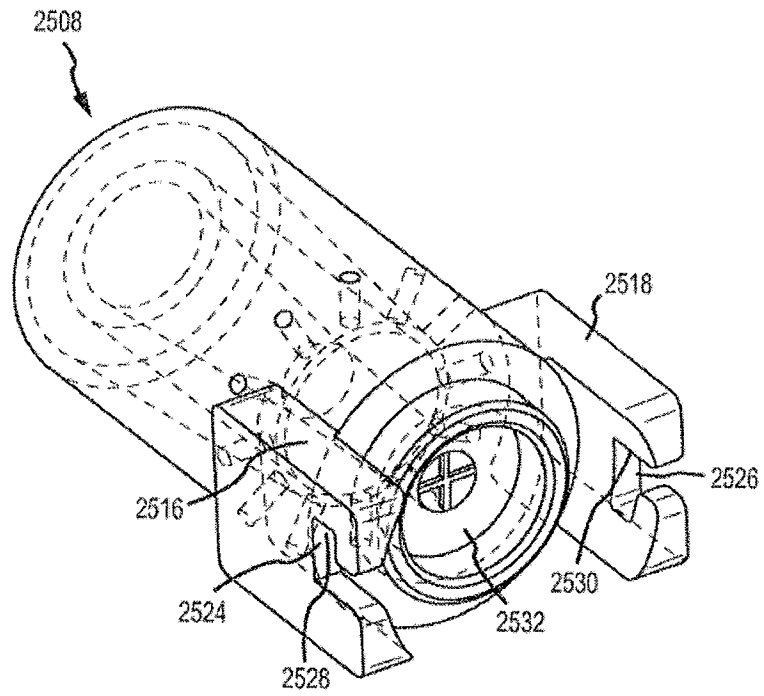


FIG.30

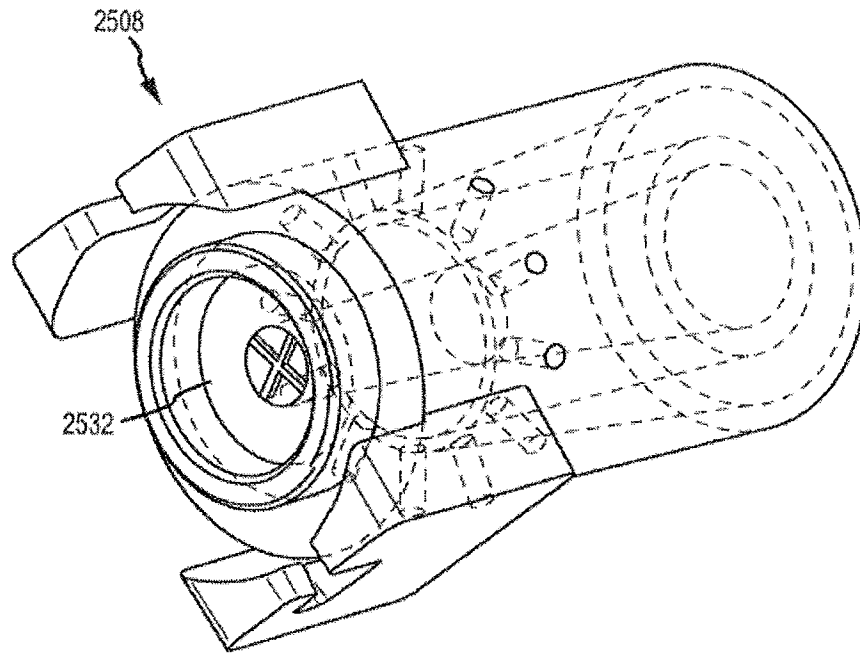


FIG.31

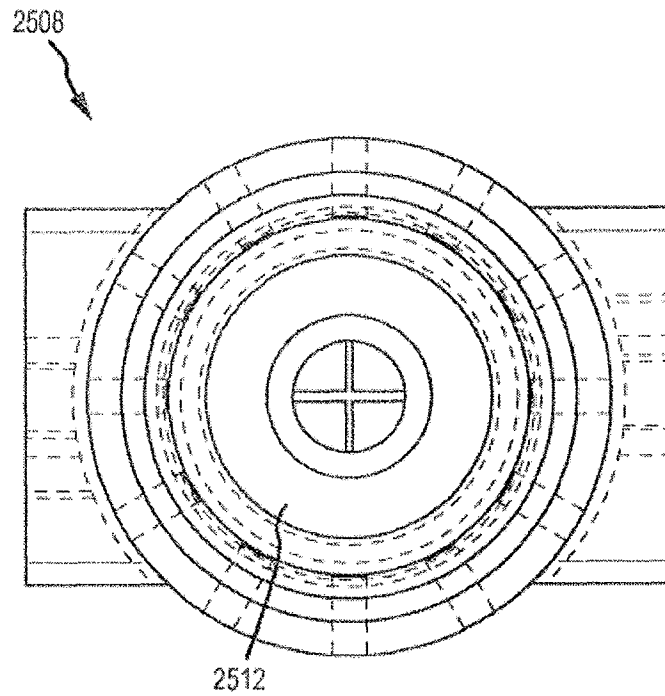


FIG. 32

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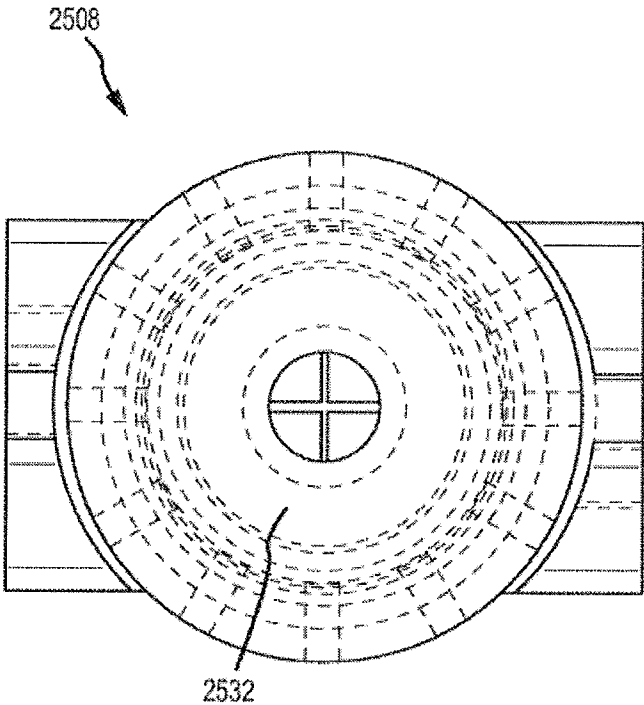


FIG.33

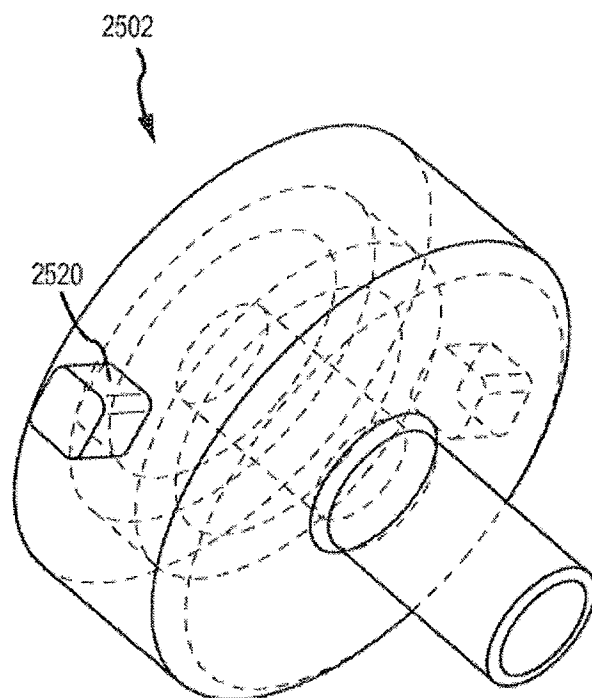


FIG. 34

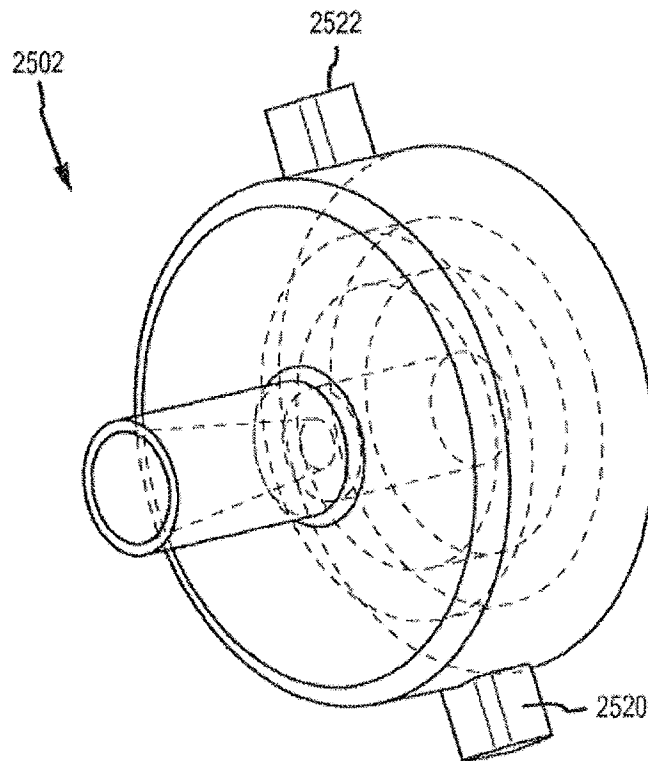


FIG.35

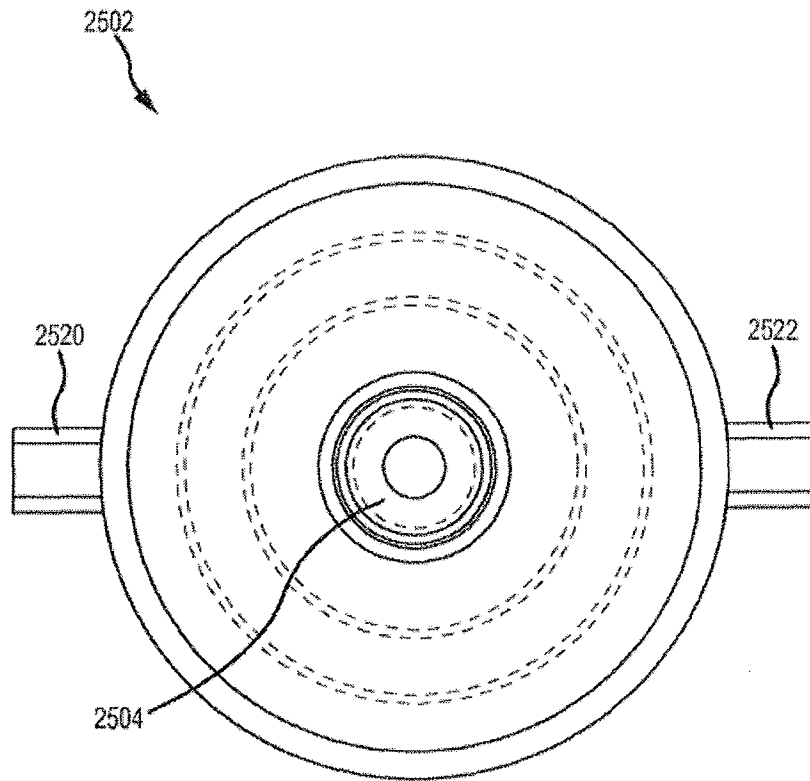


FIG.36

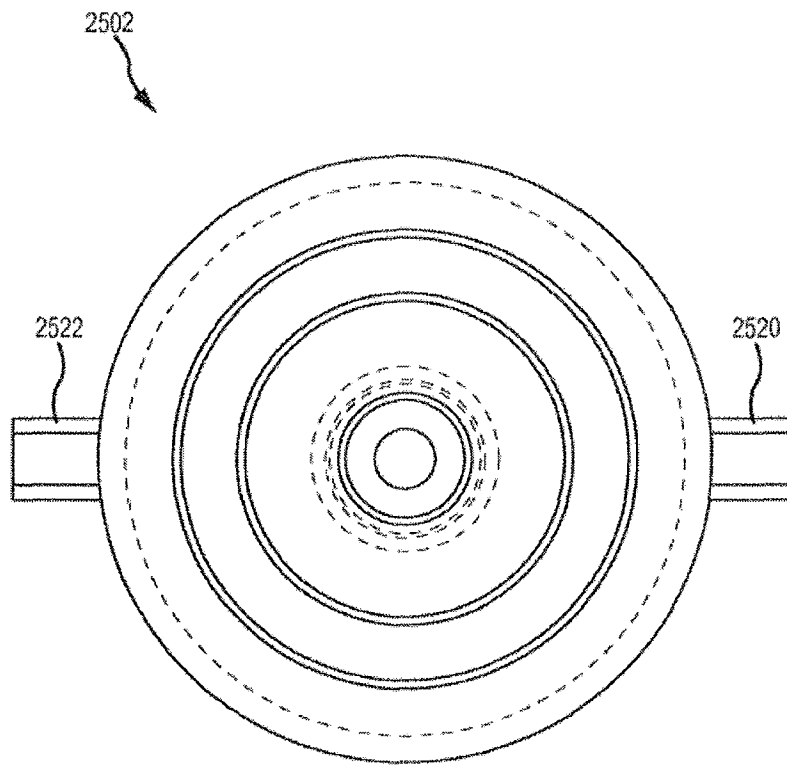


FIG.37

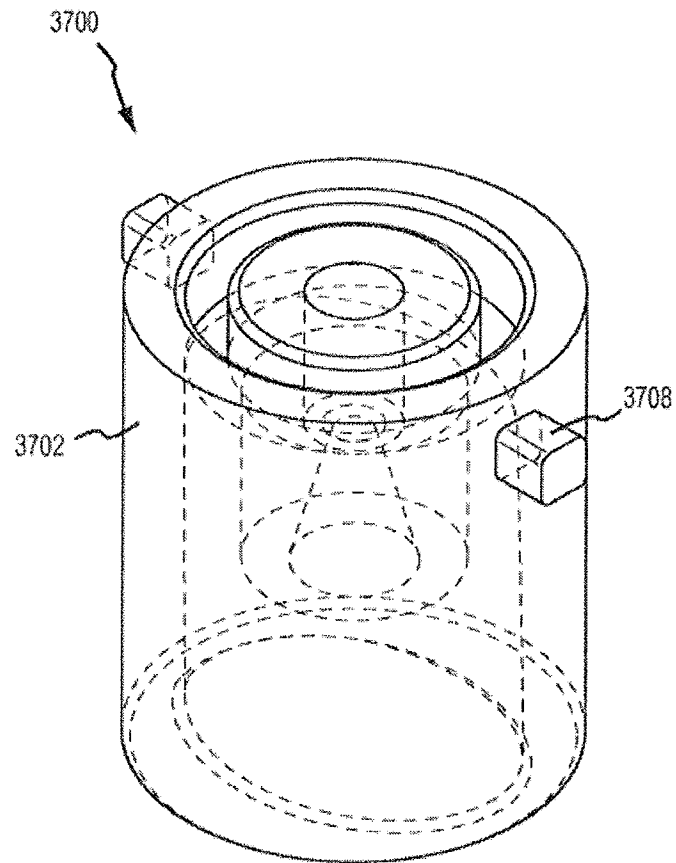


FIG.38

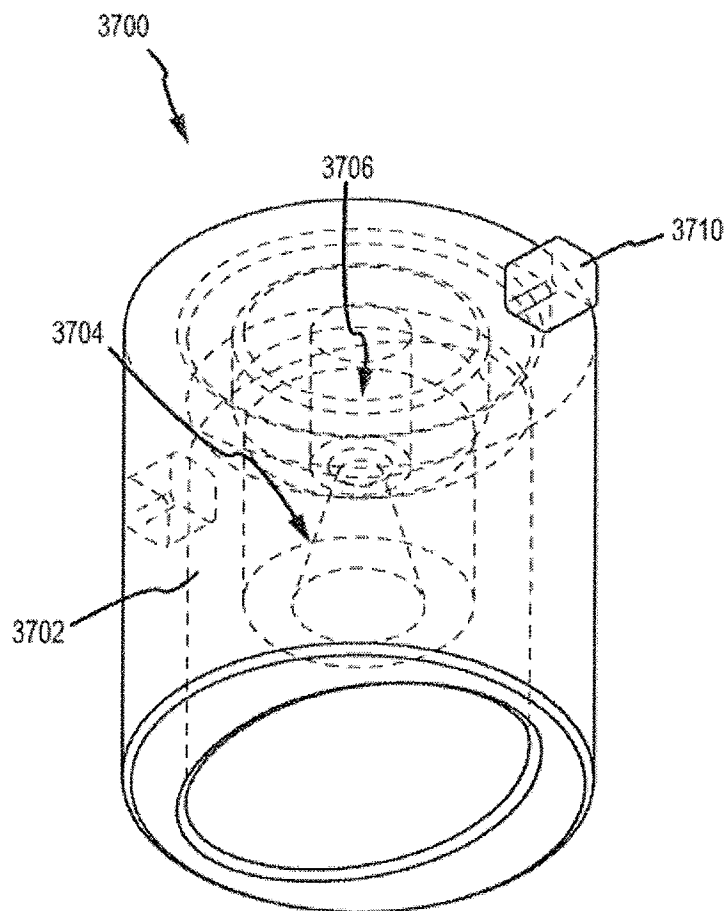


FIG.39

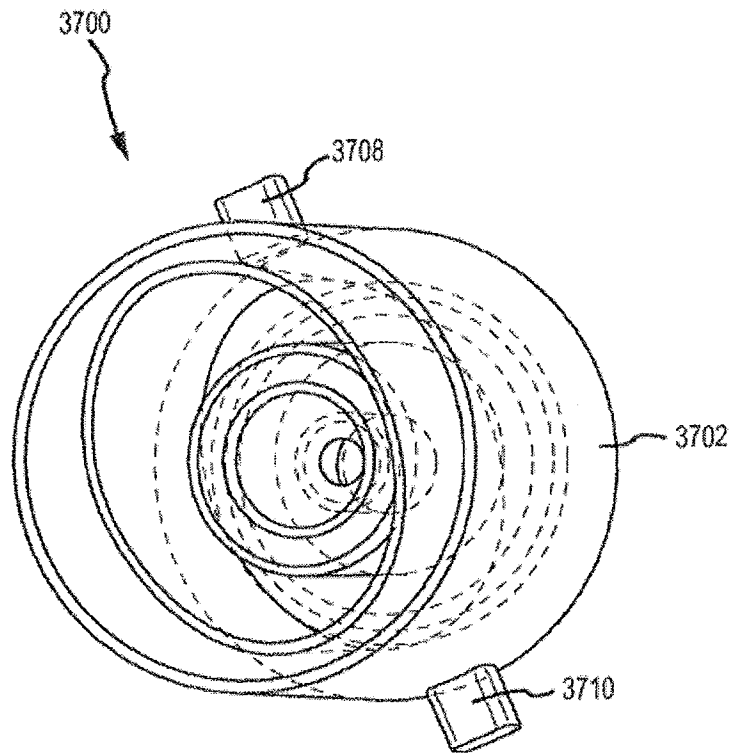


FIG. 40

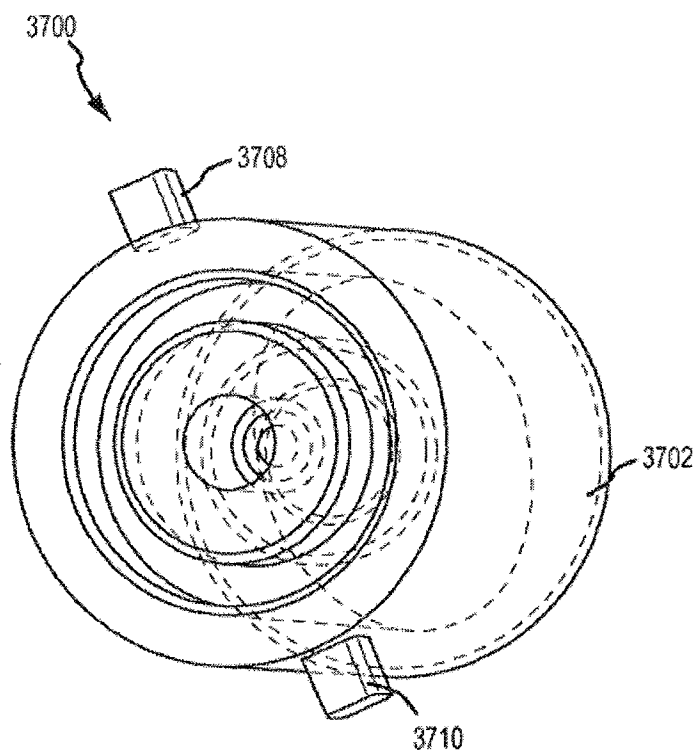


FIG. 41

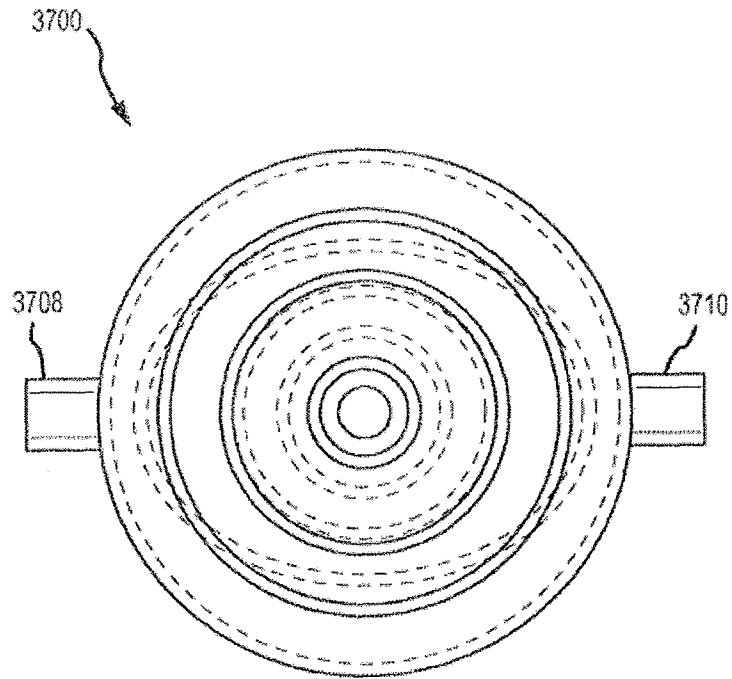


FIG. 42

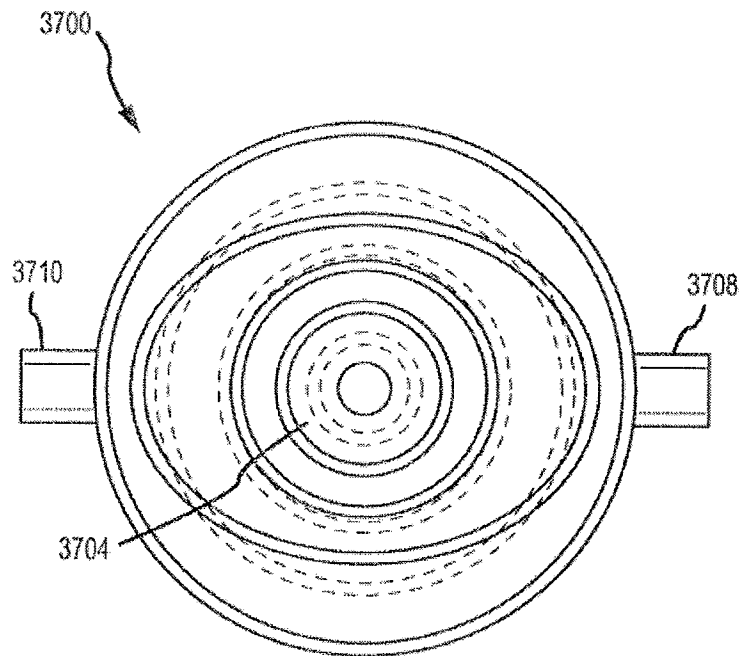


FIG.43