

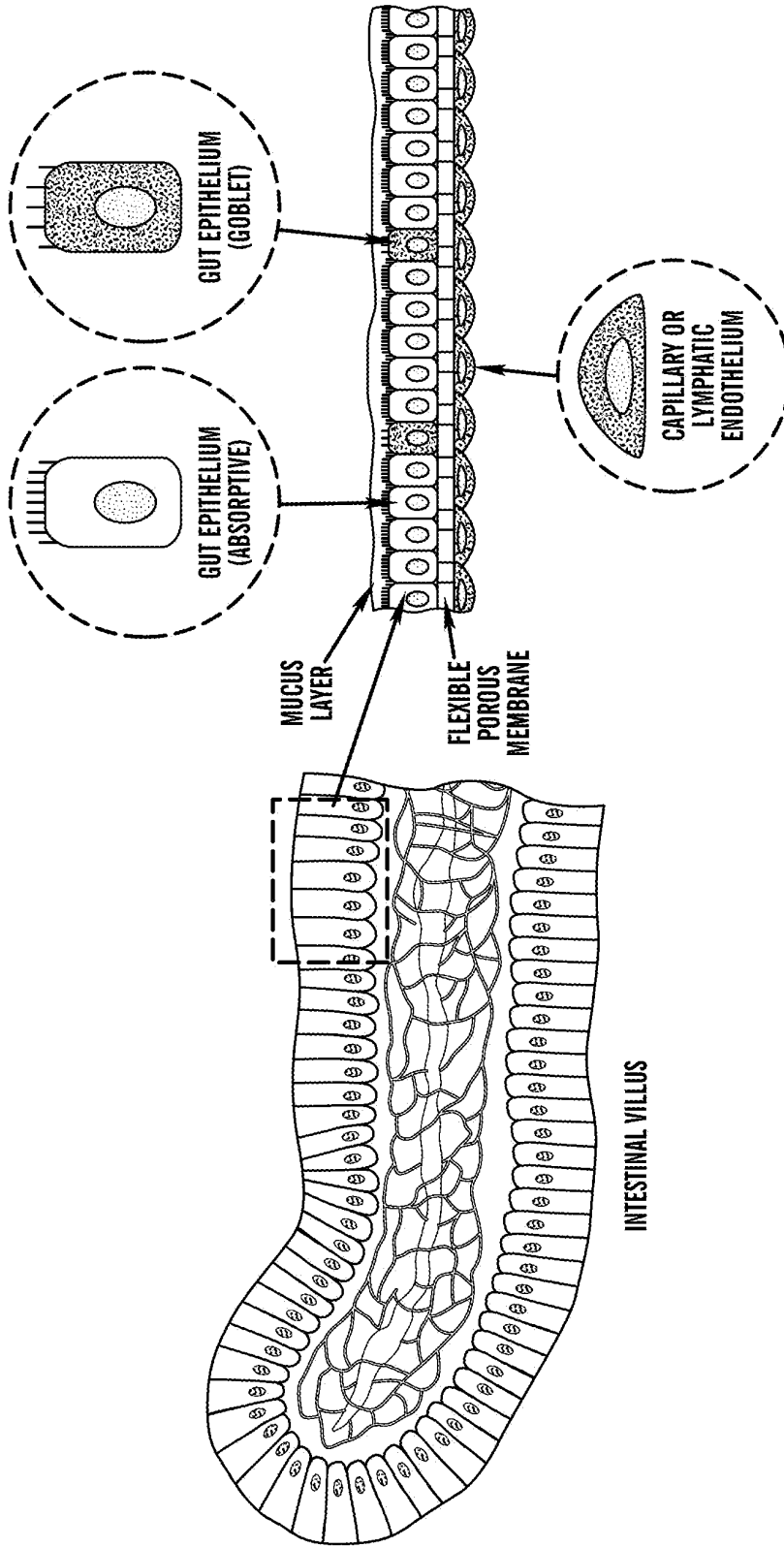


FIG. 1

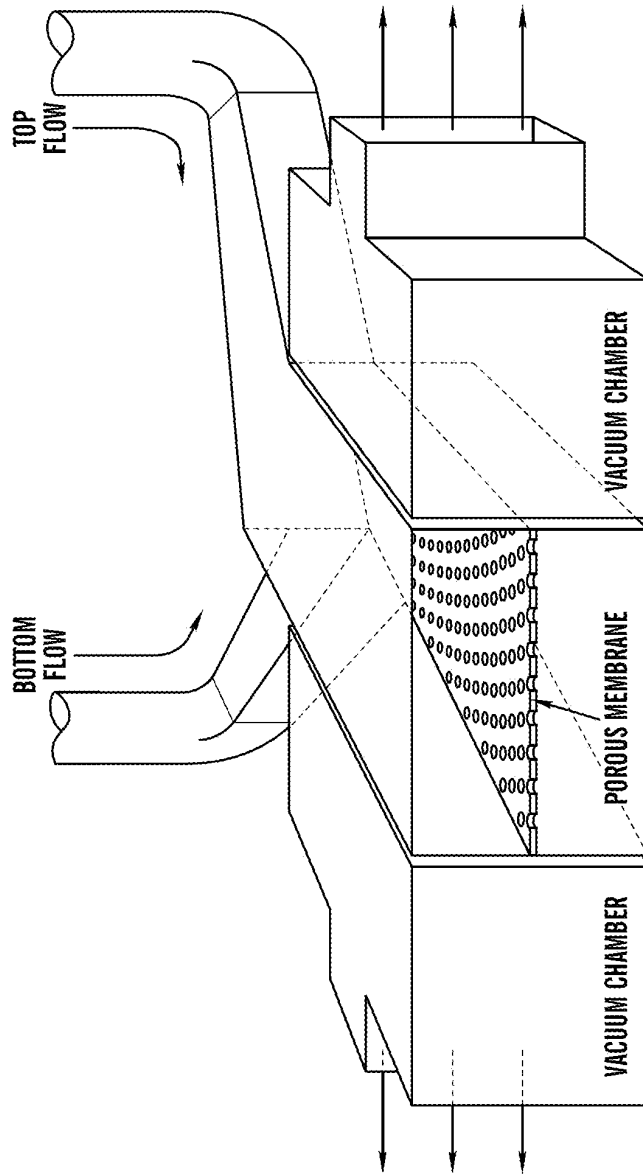


FIG. 2

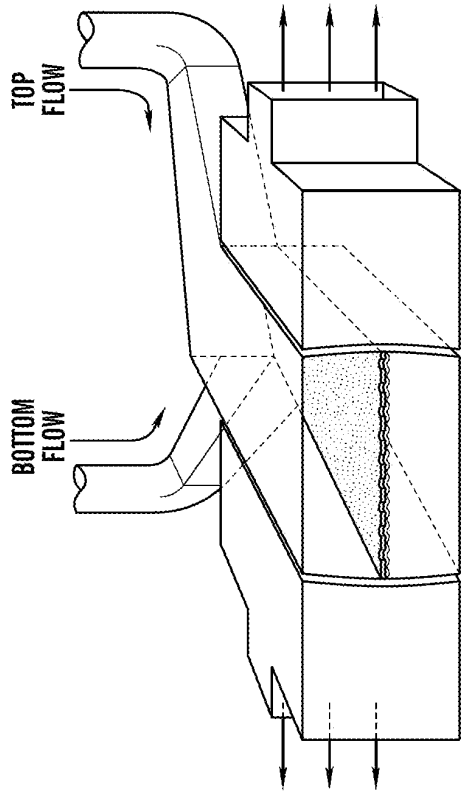


FIG. 3A

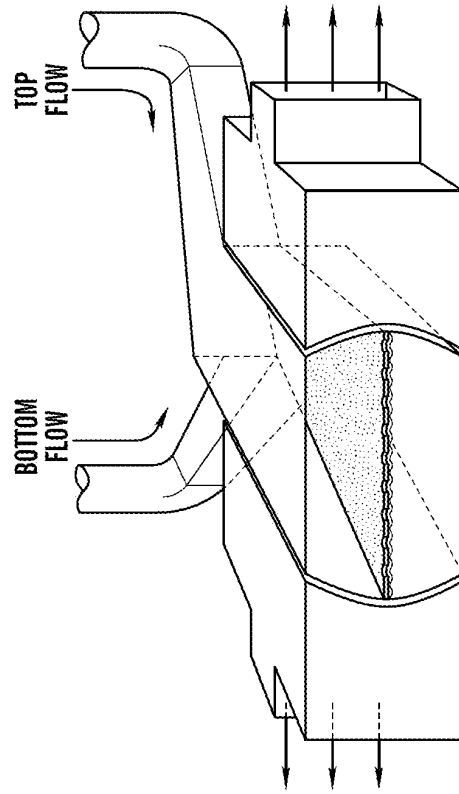


FIG. 3B

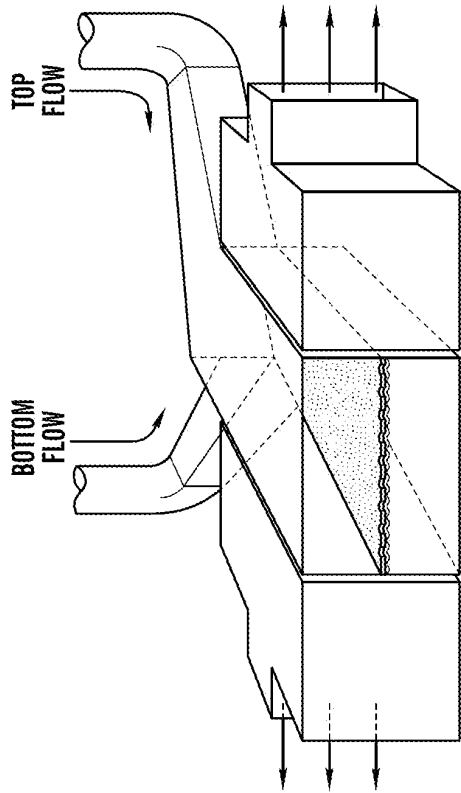


FIG. 3C

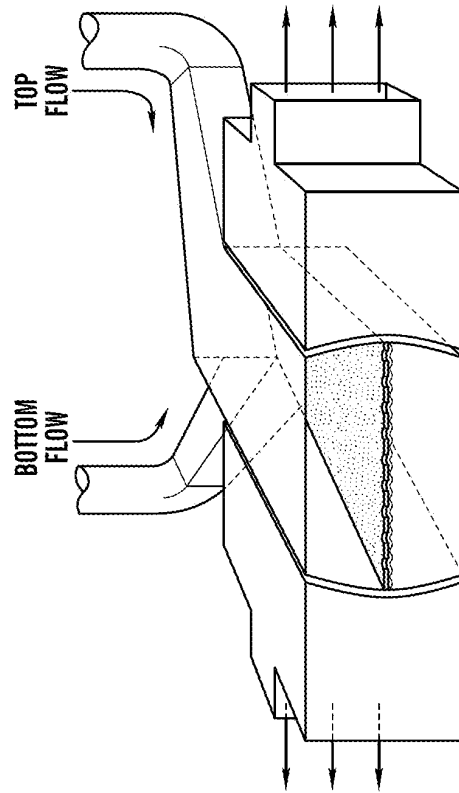


FIG. 3D

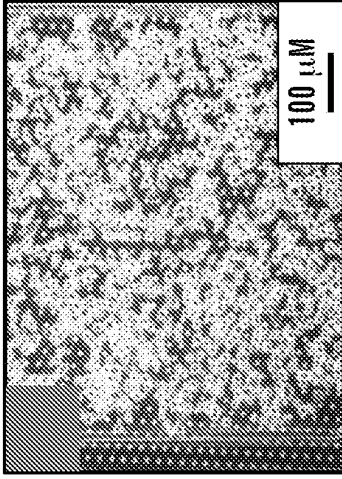


FIG. 4A

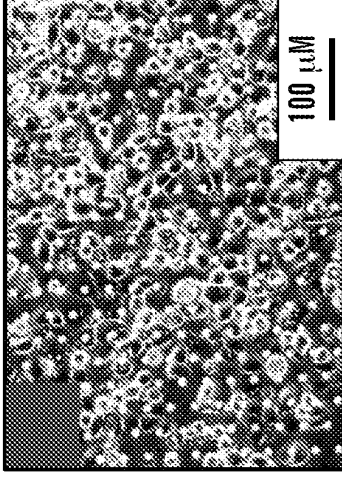


FIG. 4B

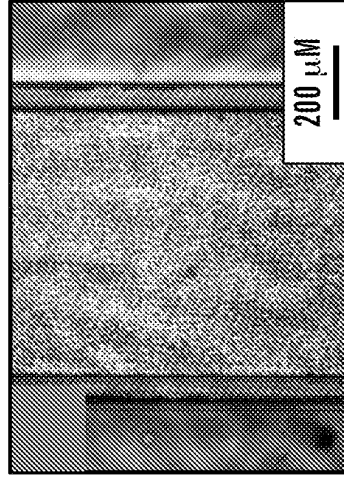


FIG. 4C

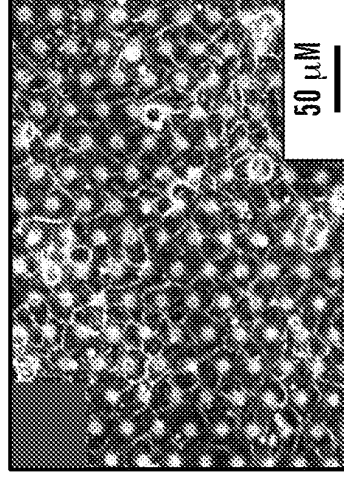


FIG. 4D

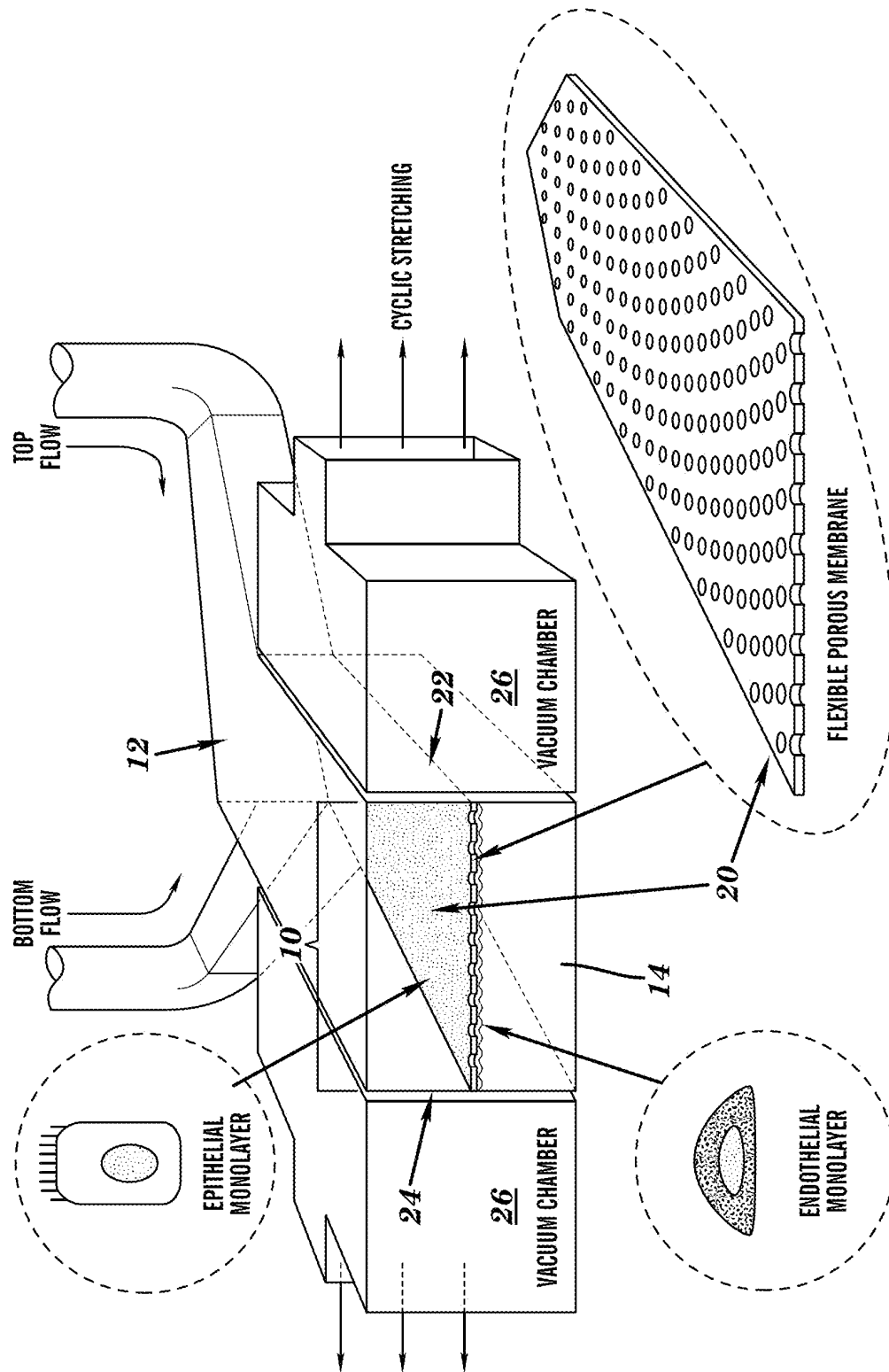
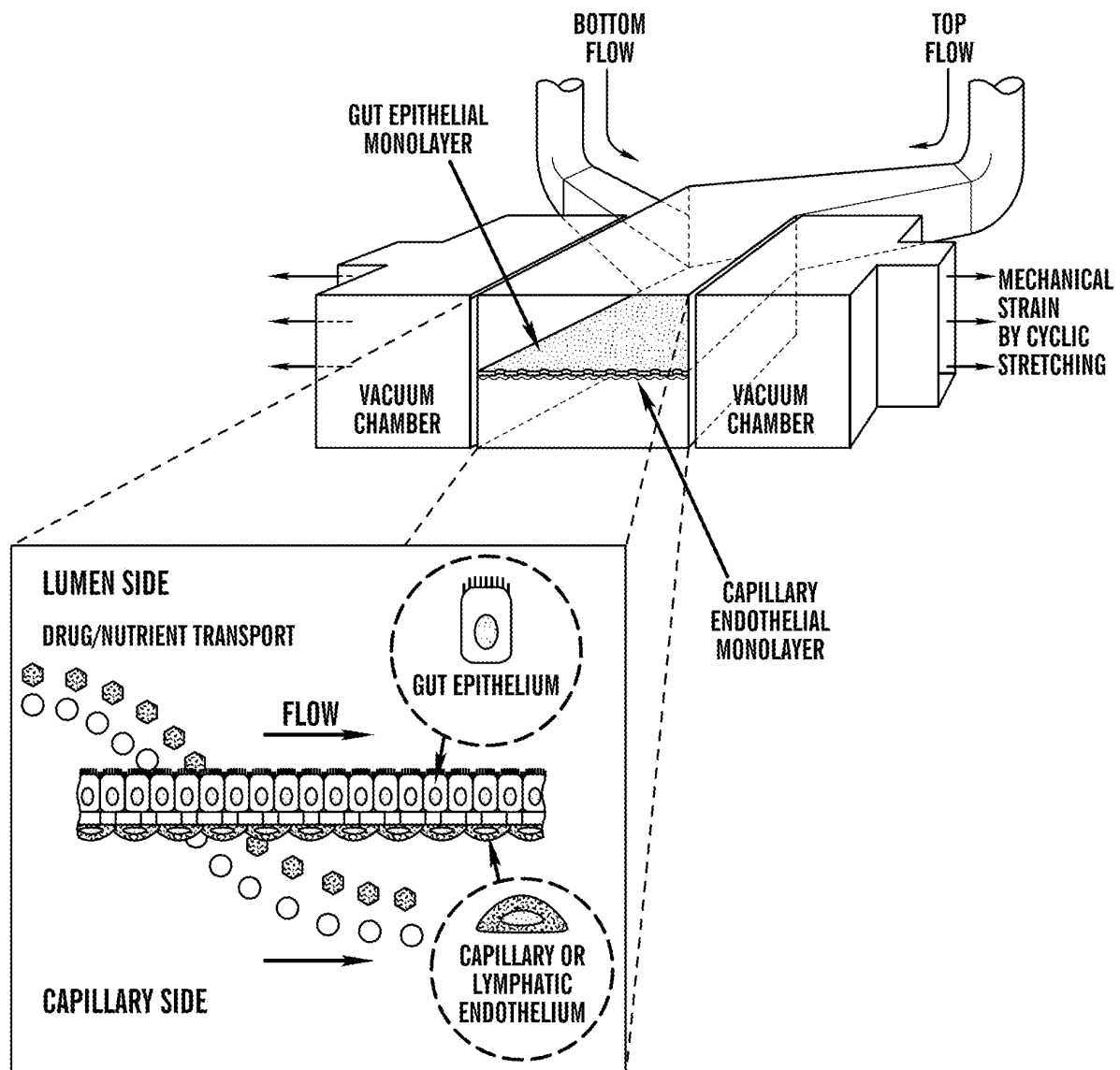


FIG. 5

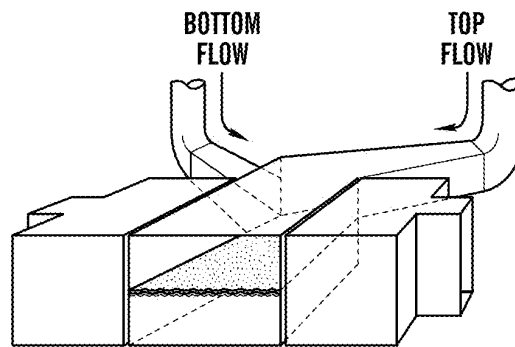
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DYNAMIC CONDITION (FLUIDIC + STRETCHING)

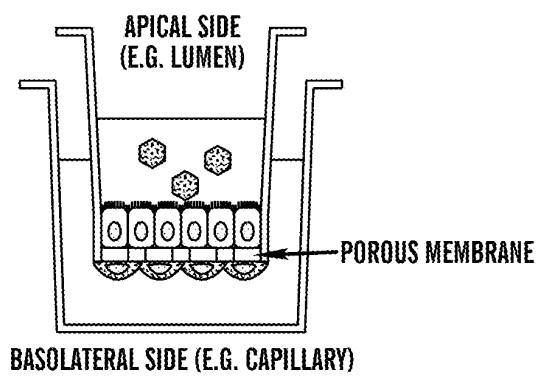
FIG. 6A

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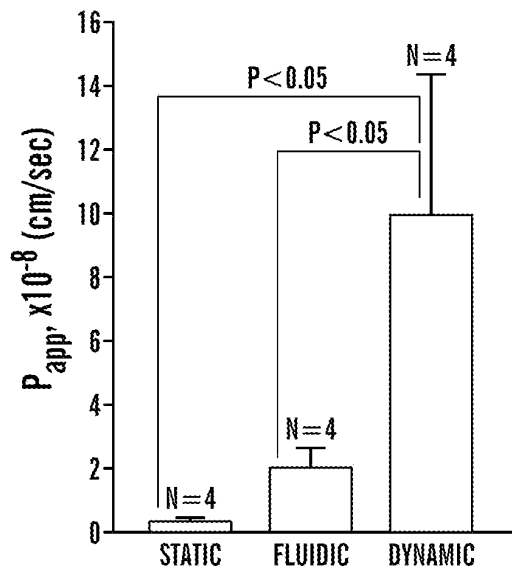
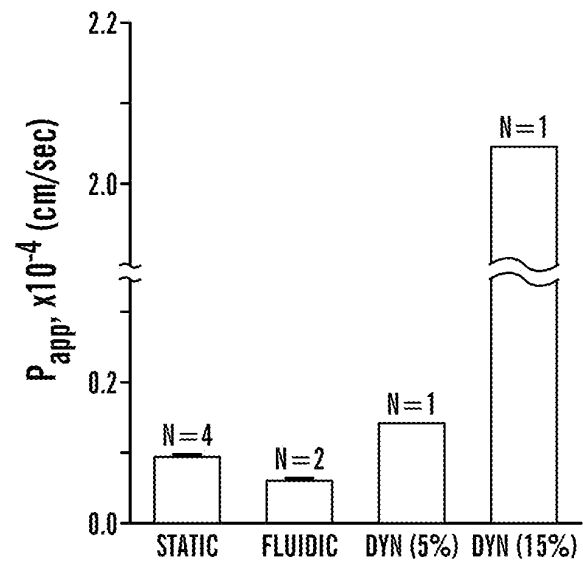
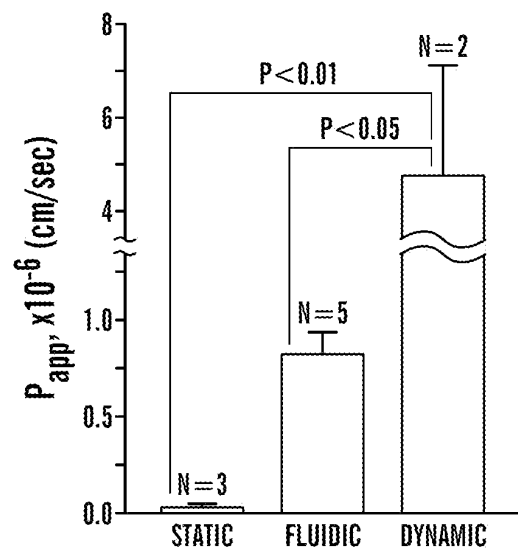
FLUIDIC CONDITION (W/O STRETCHING)

FIG. 6B



STATIC CONDITION (TRANSWELL)

FIG. 6C

**FIG. 7****FIG. 8****FIG. 9**

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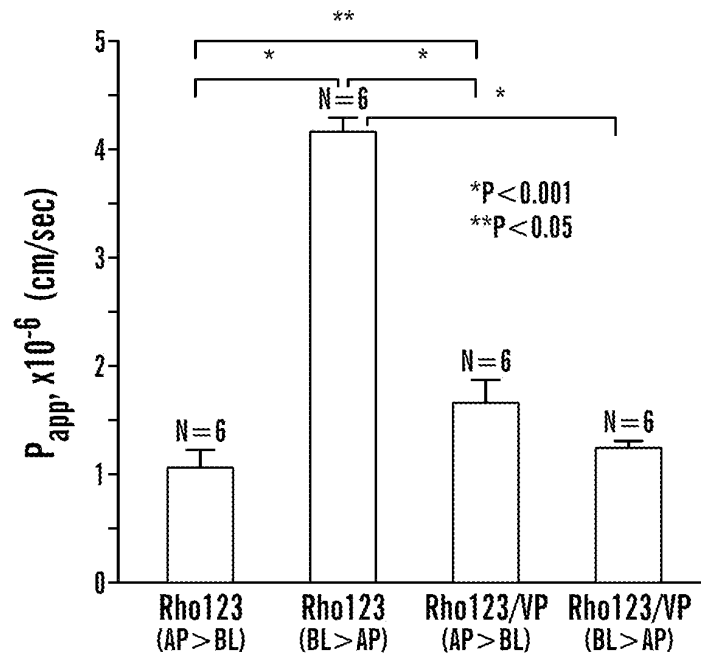


FIG. 10

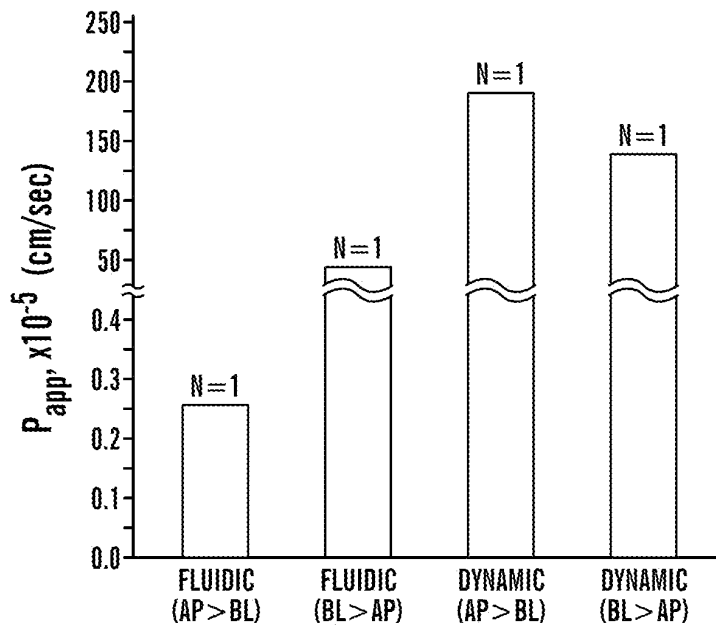
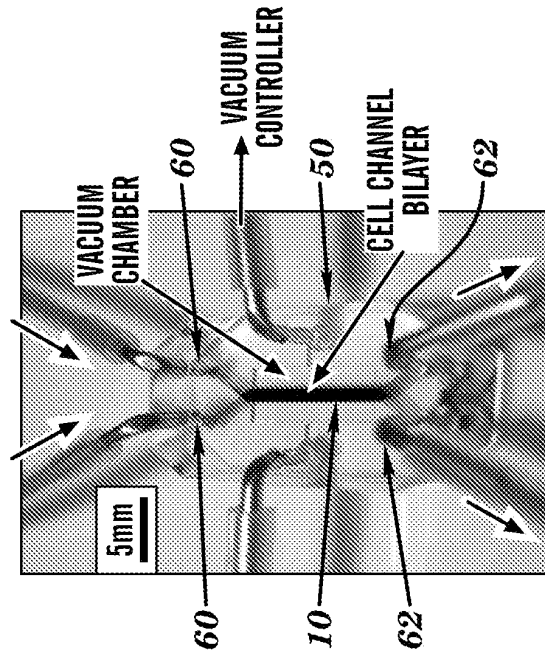
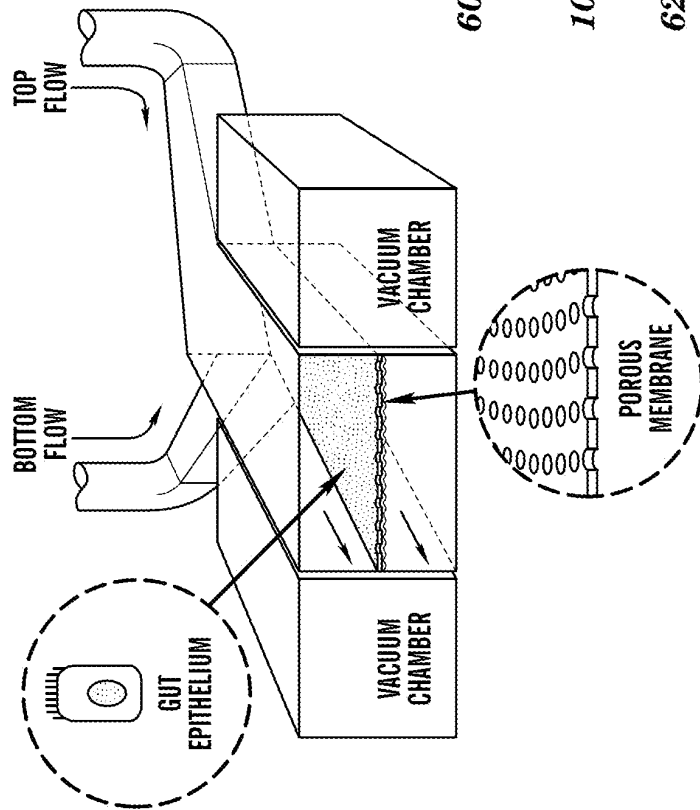


FIG. 11



GUT-ON-A-CHIP

FIG. 12B

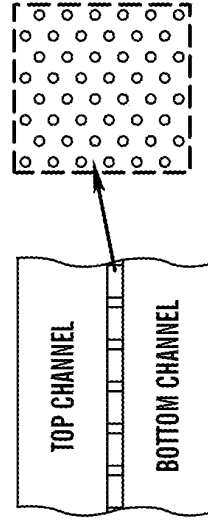


FIG. 12C

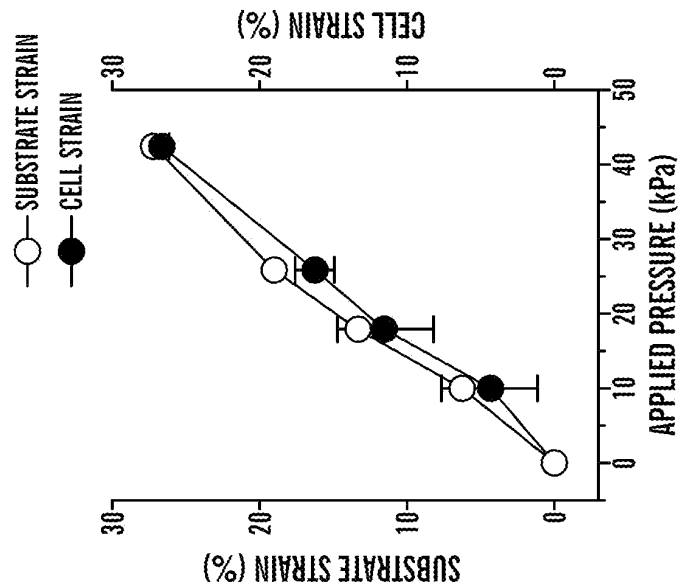


FIG. 12E

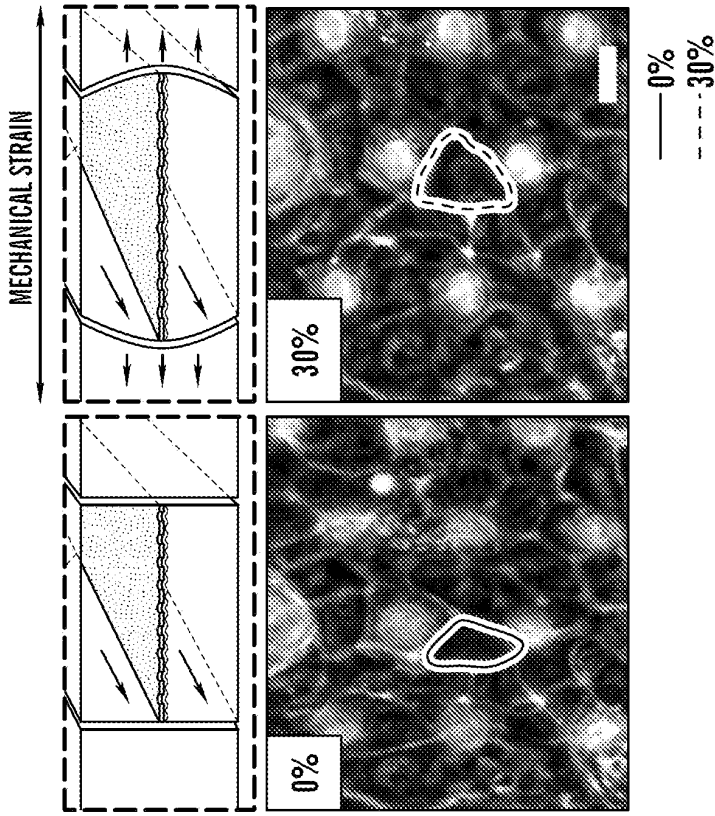
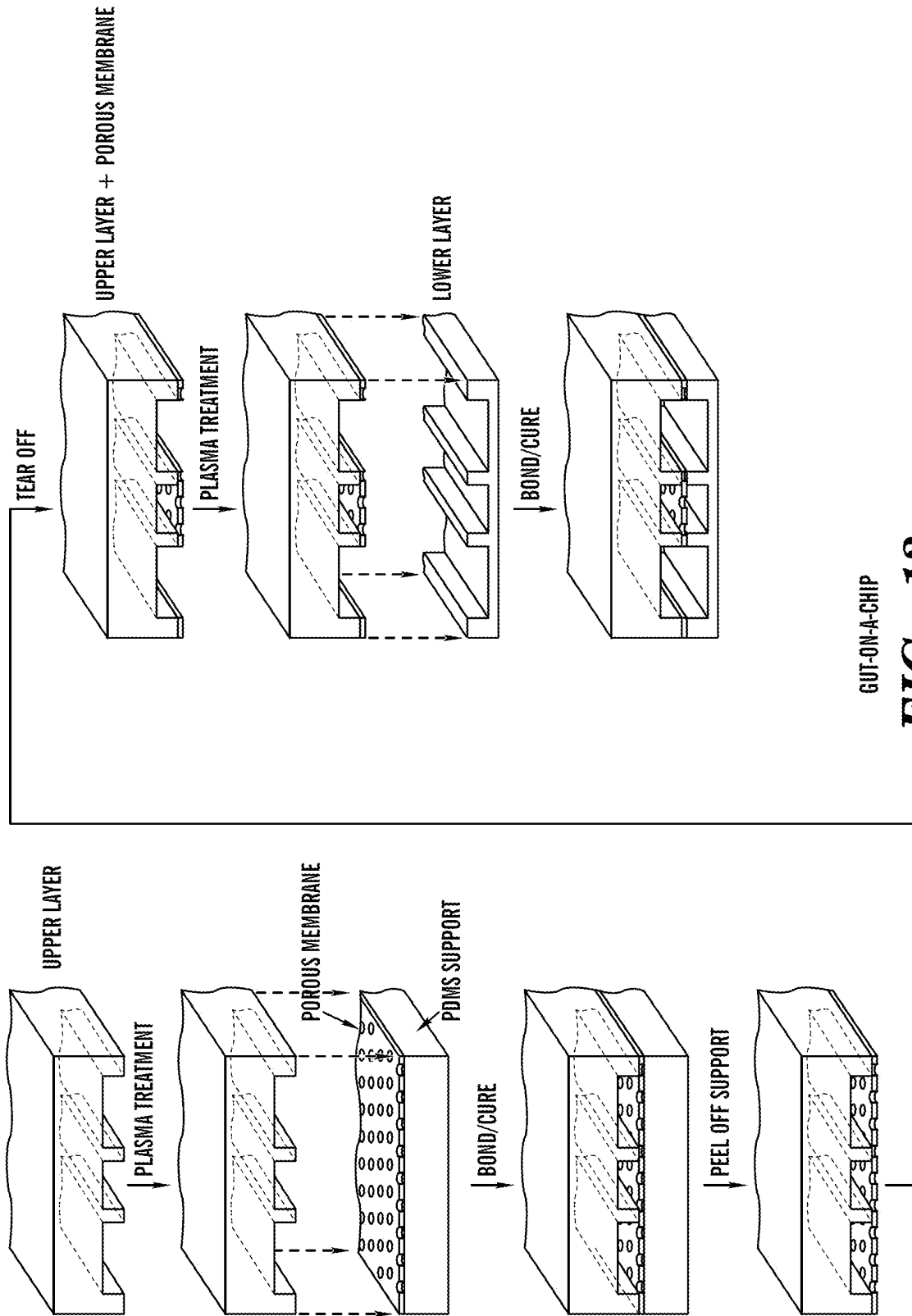


FIG. 12D



GUT-ON-A-CHIP

FIG. 13

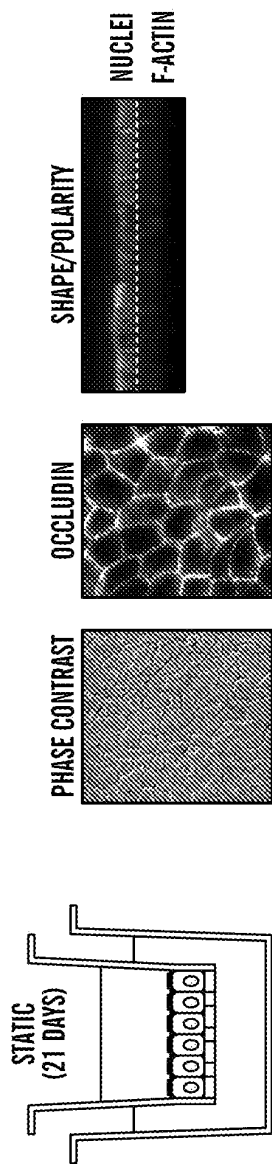


FIG. 14A

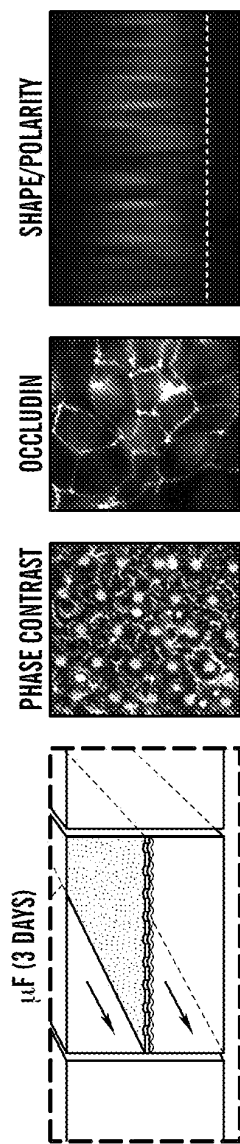


FIG. 14B

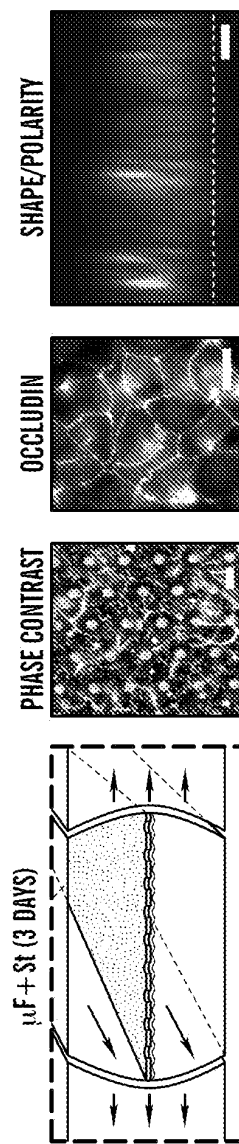


FIG. 14C

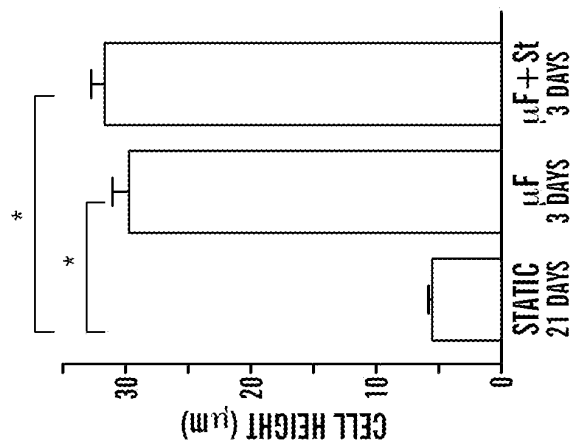


FIG. 14D

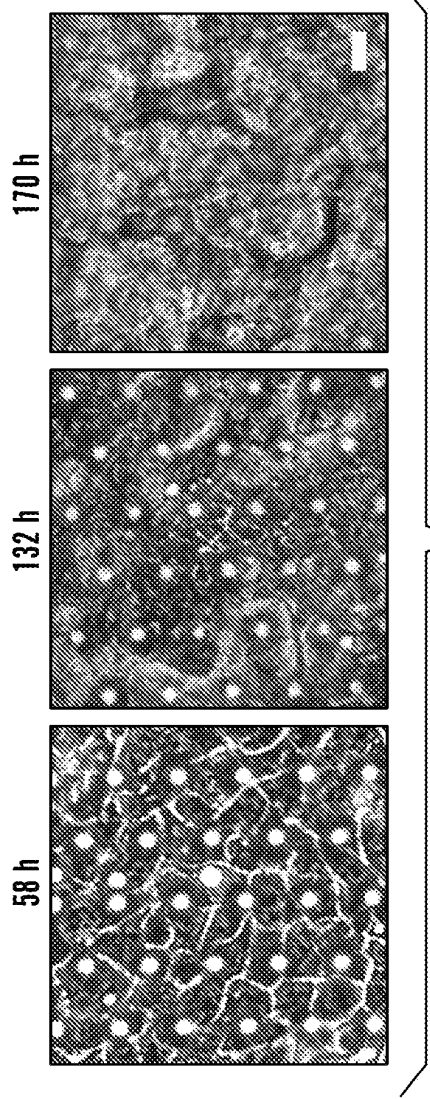


FIG. 15A

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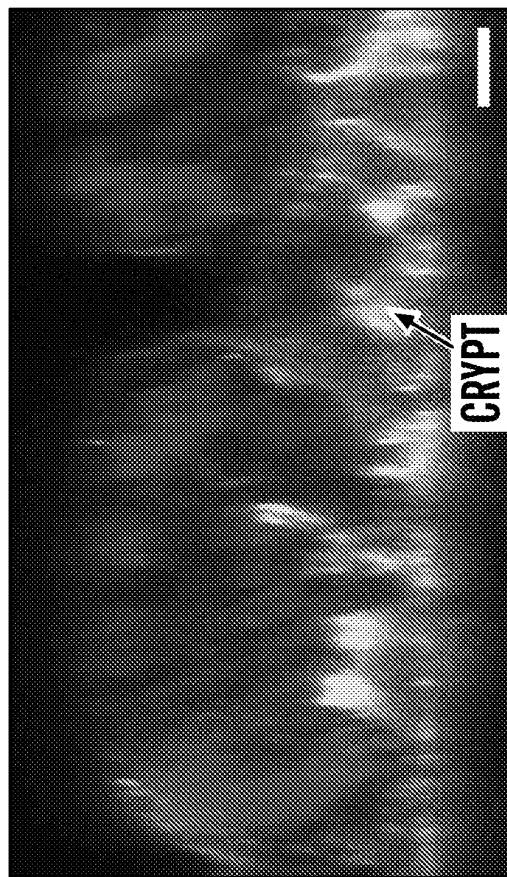


FIG. 15B

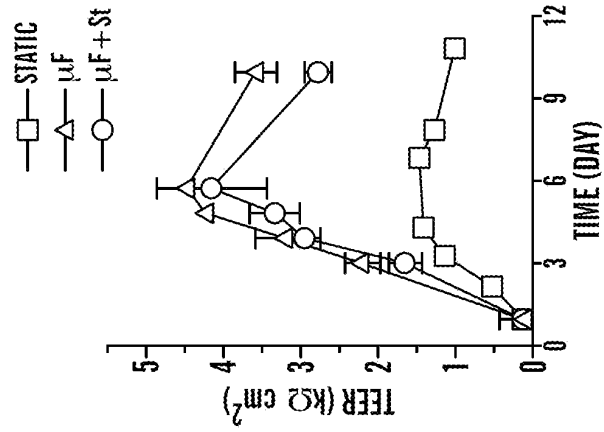


FIG. 16A

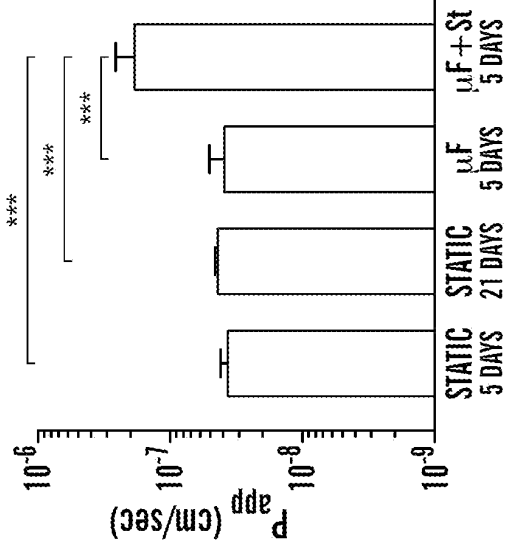


FIG. 16B

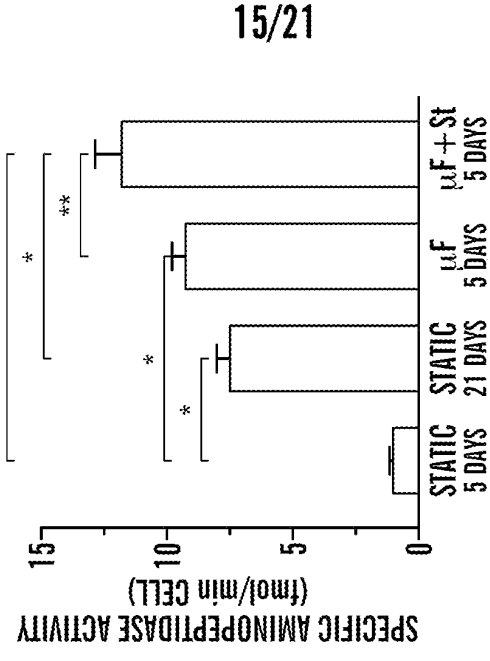


FIG. 16C

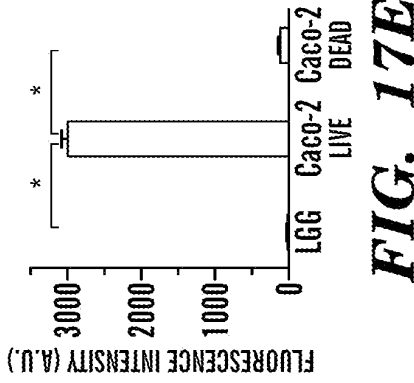
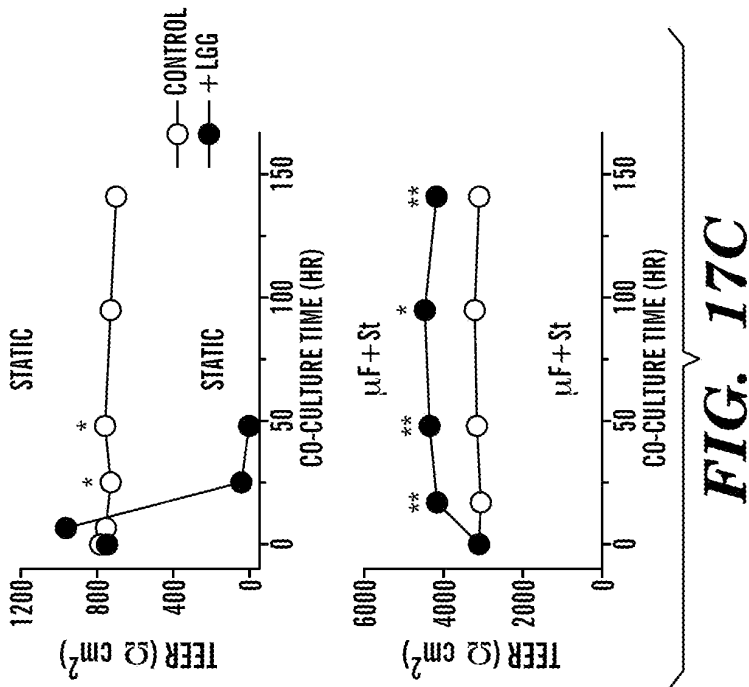


FIG. 17E

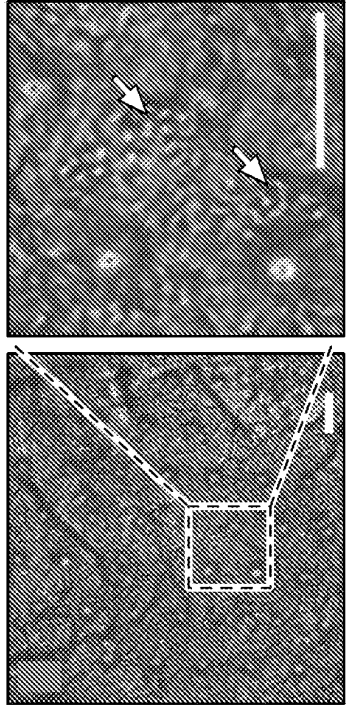


FIG. 17A

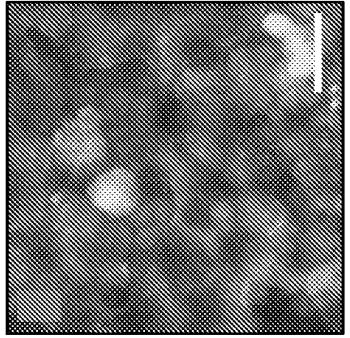


FIG. 17B

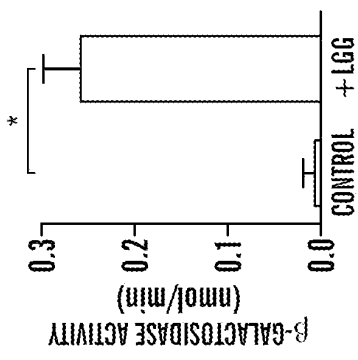


FIG. 17D

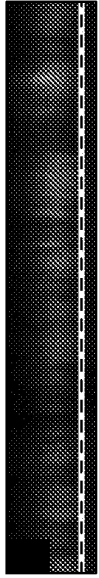


FIG. 18A

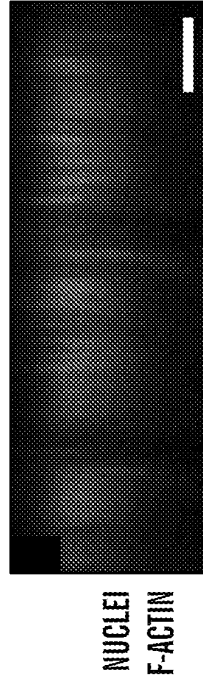


FIG. 18B

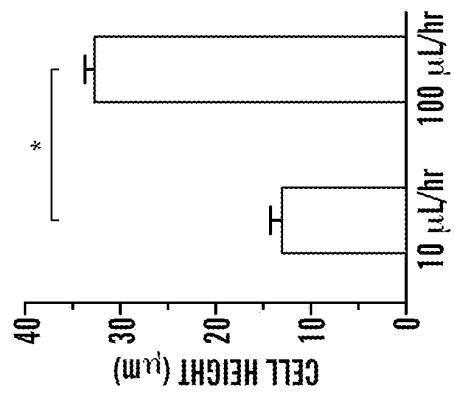


FIG. 18C

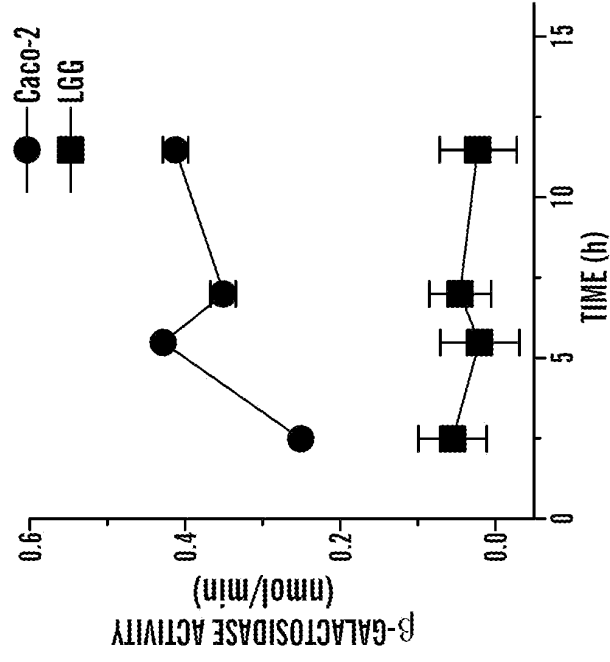
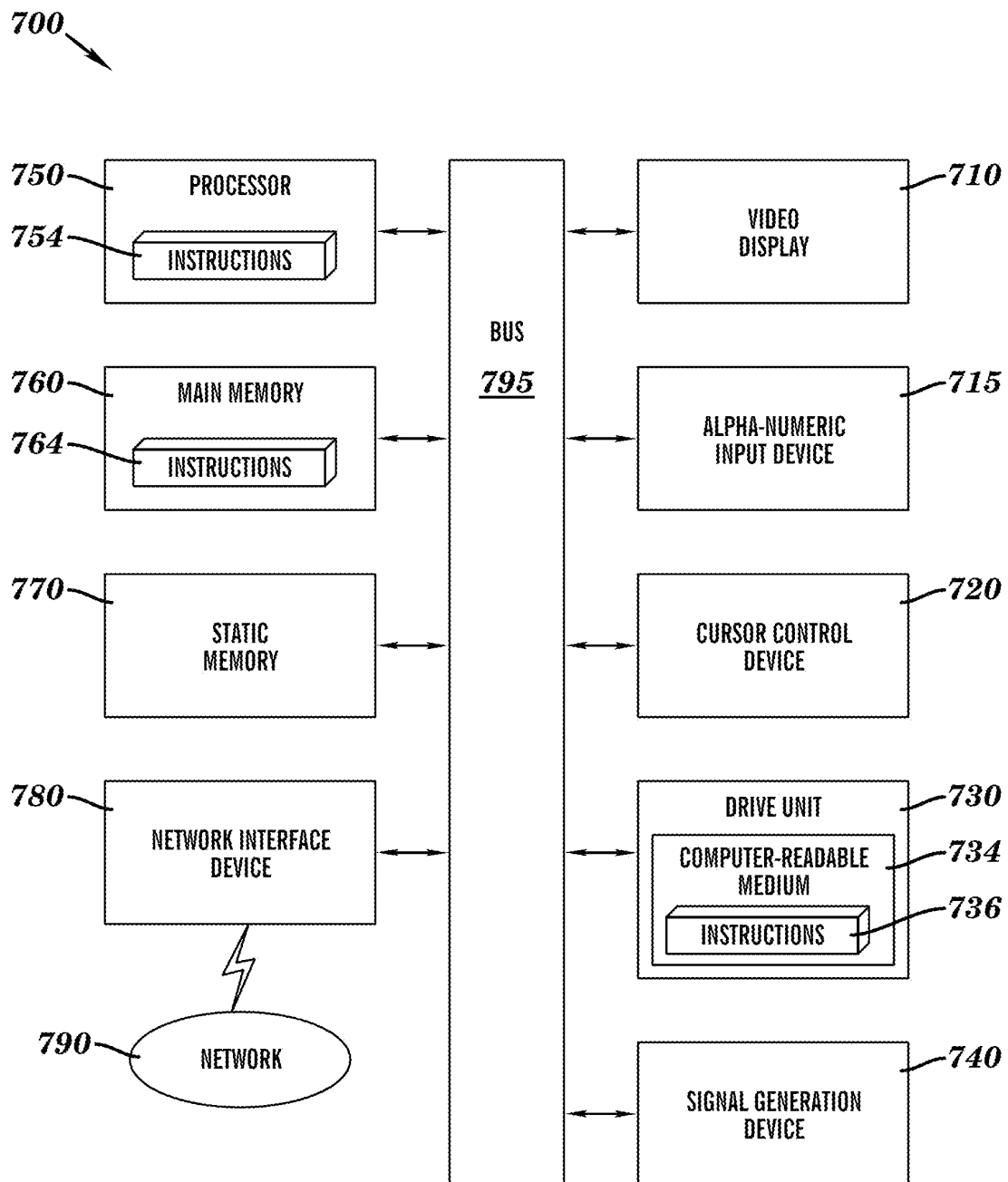
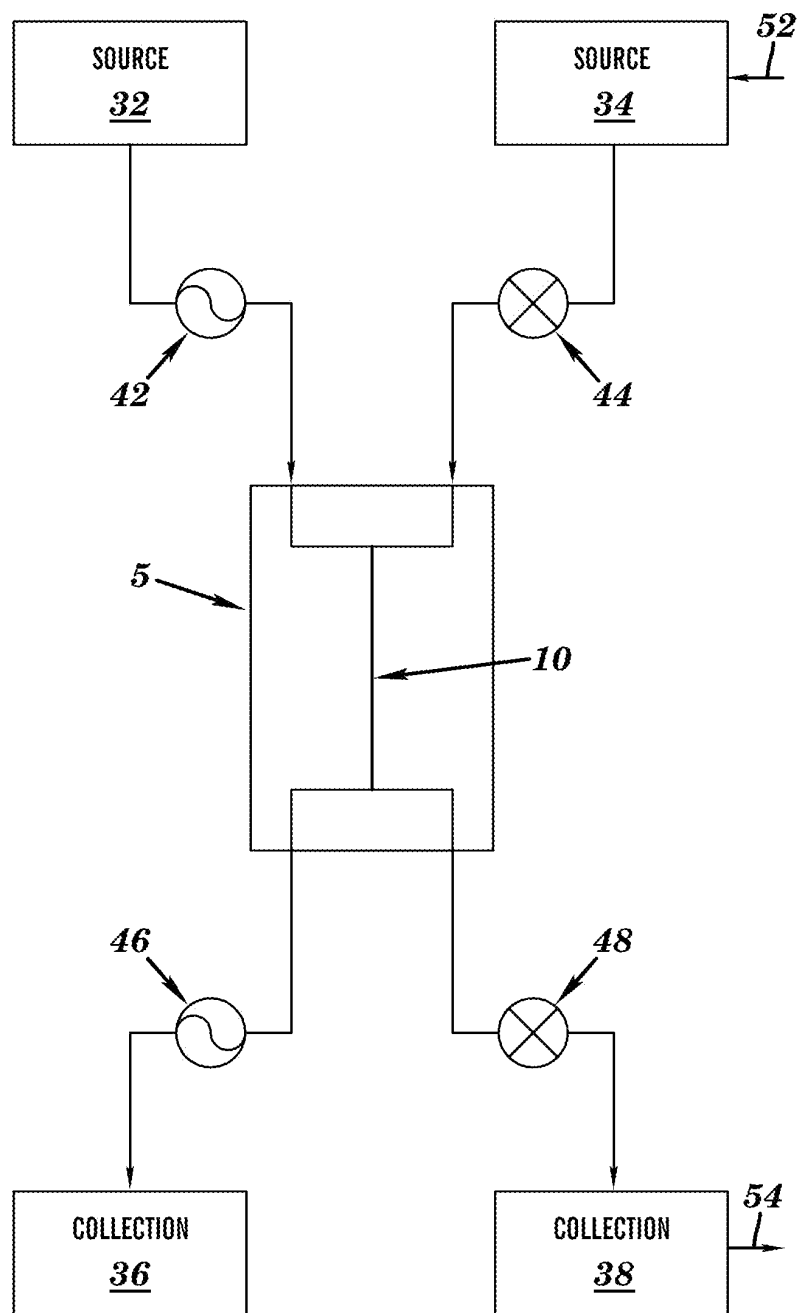
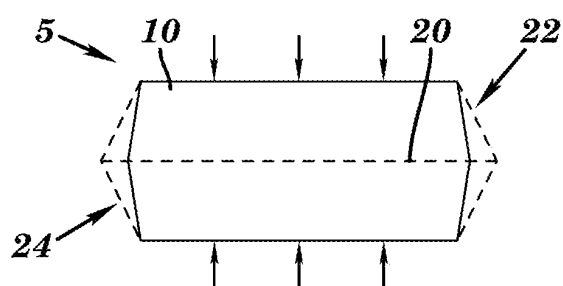
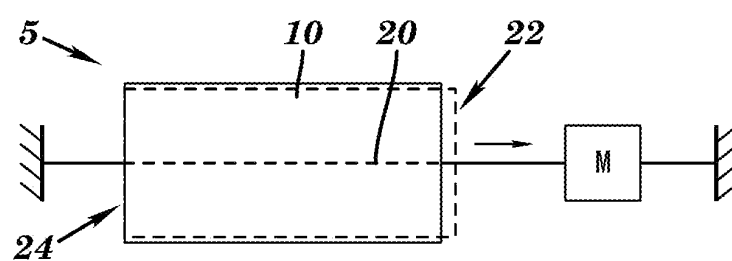
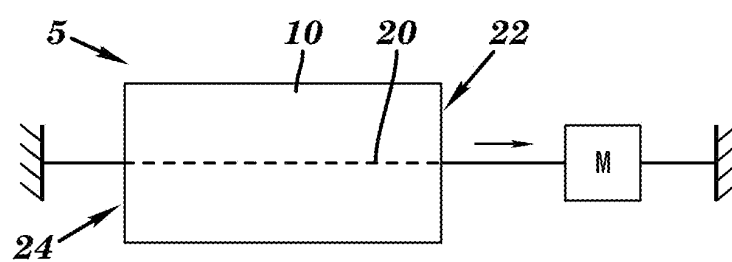
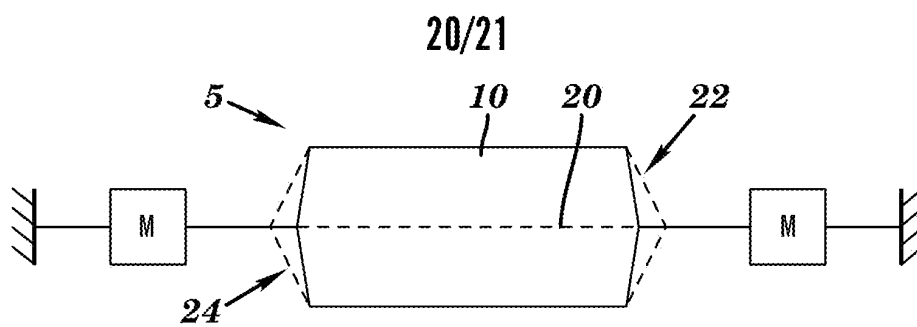


FIG. 19

**FIG. 20**

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**FIG. 21**



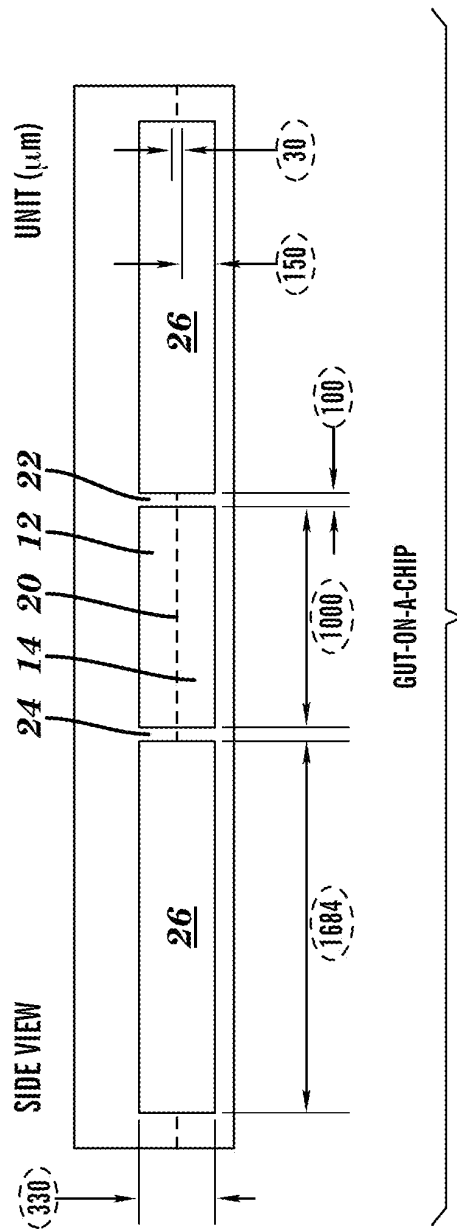
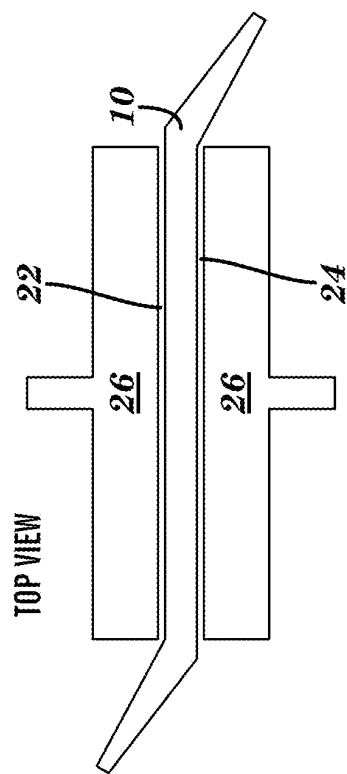


FIG. 23