

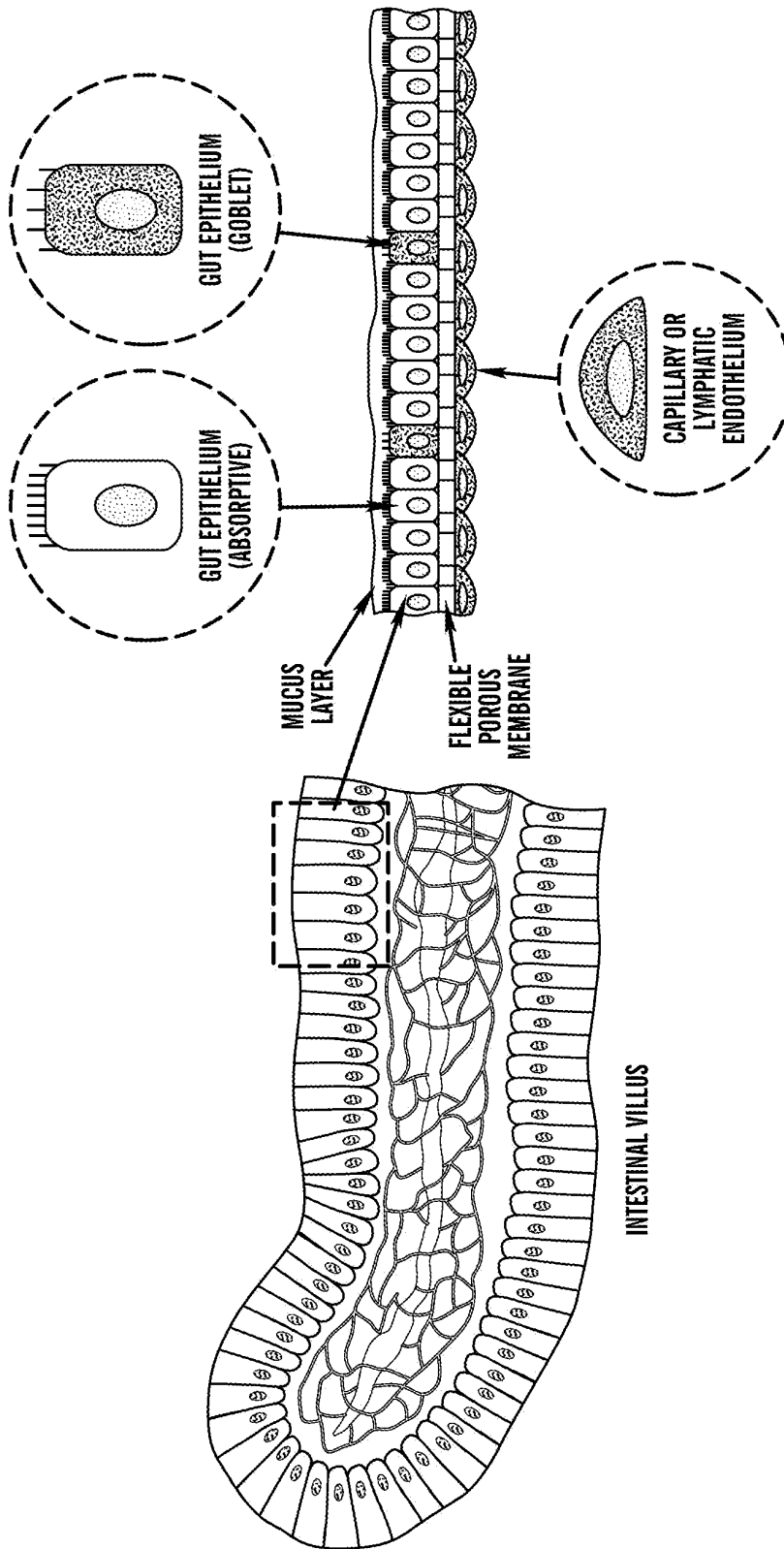
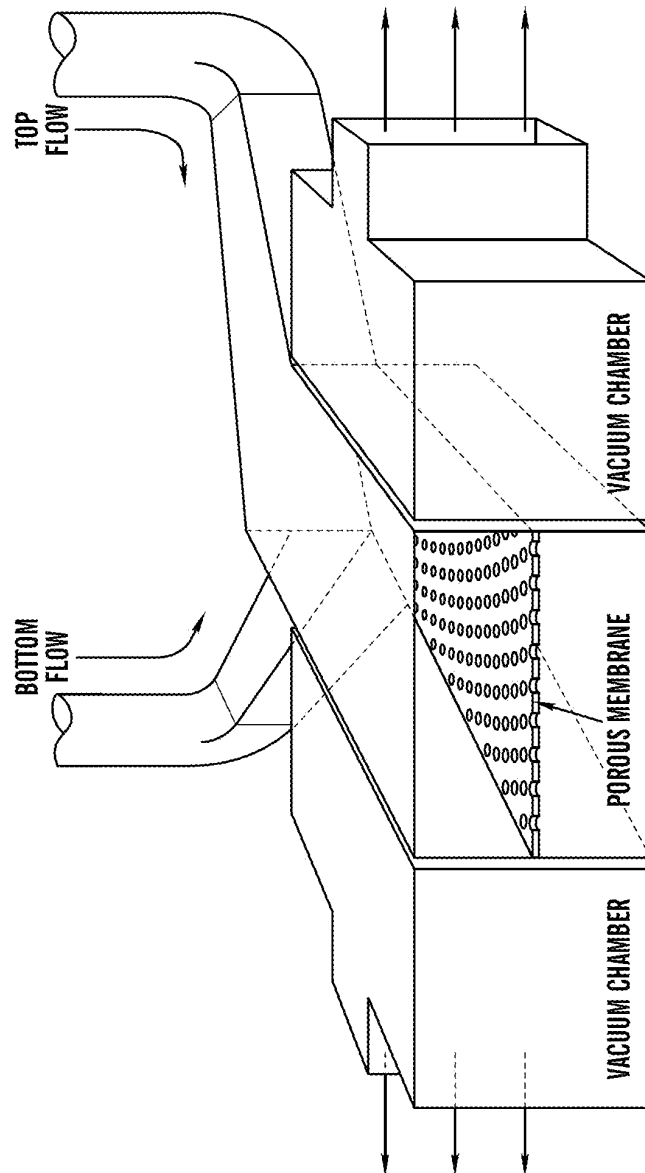


FIG. 1

**FIG. 2**

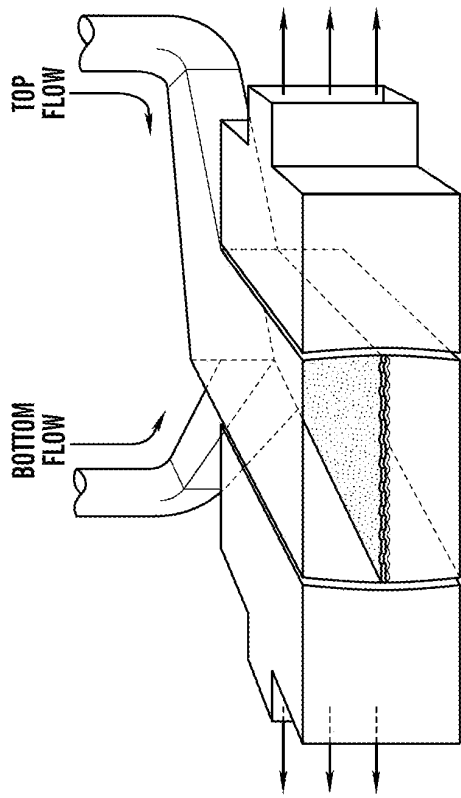


FIG. 3A

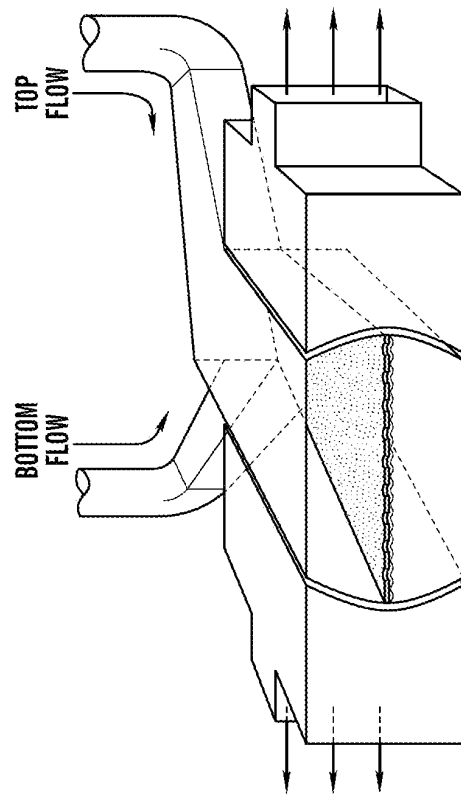


FIG. 3B

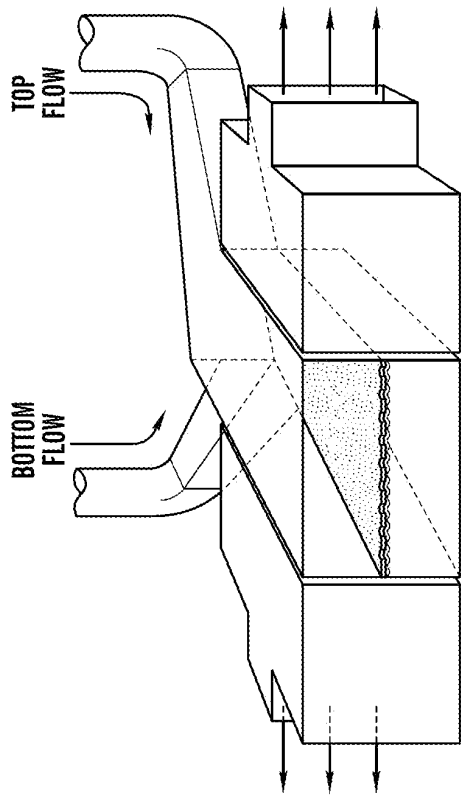


FIG. 3C

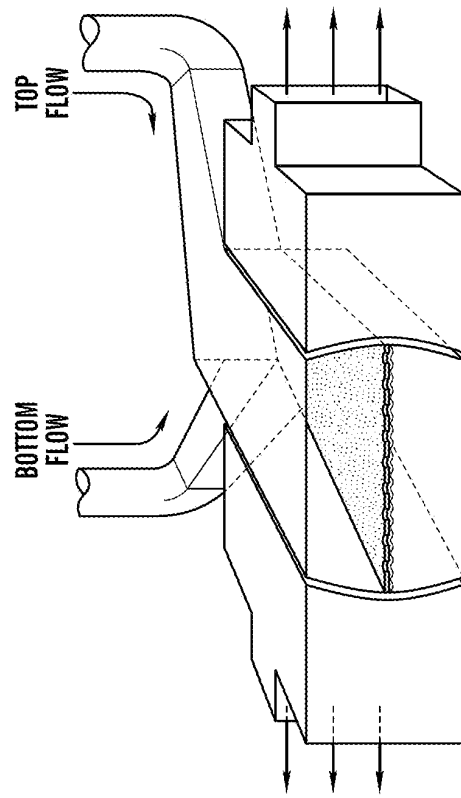


FIG. 3D

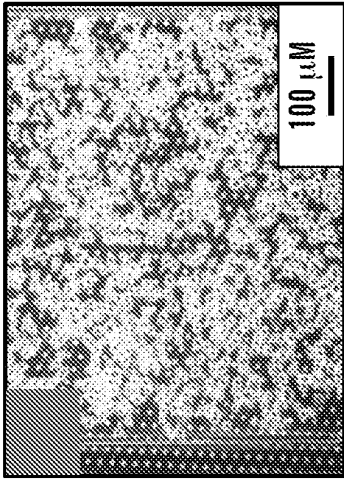


FIG. 4A

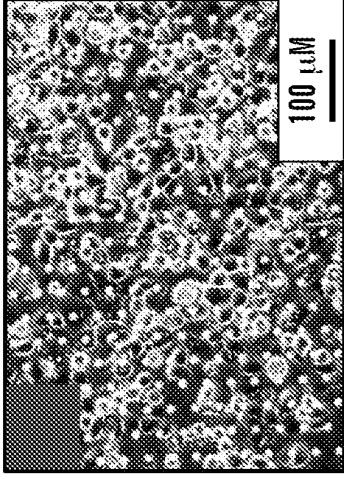


FIG. 4B

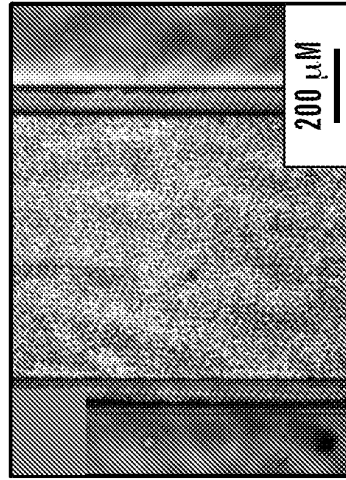


FIG. 4C

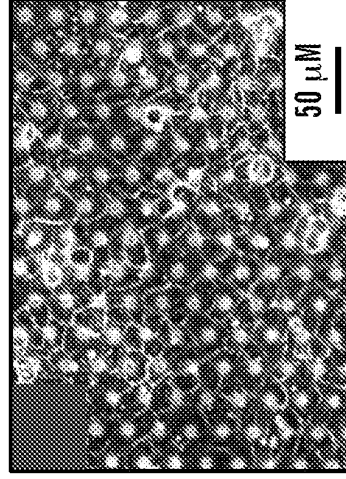


FIG. 4D

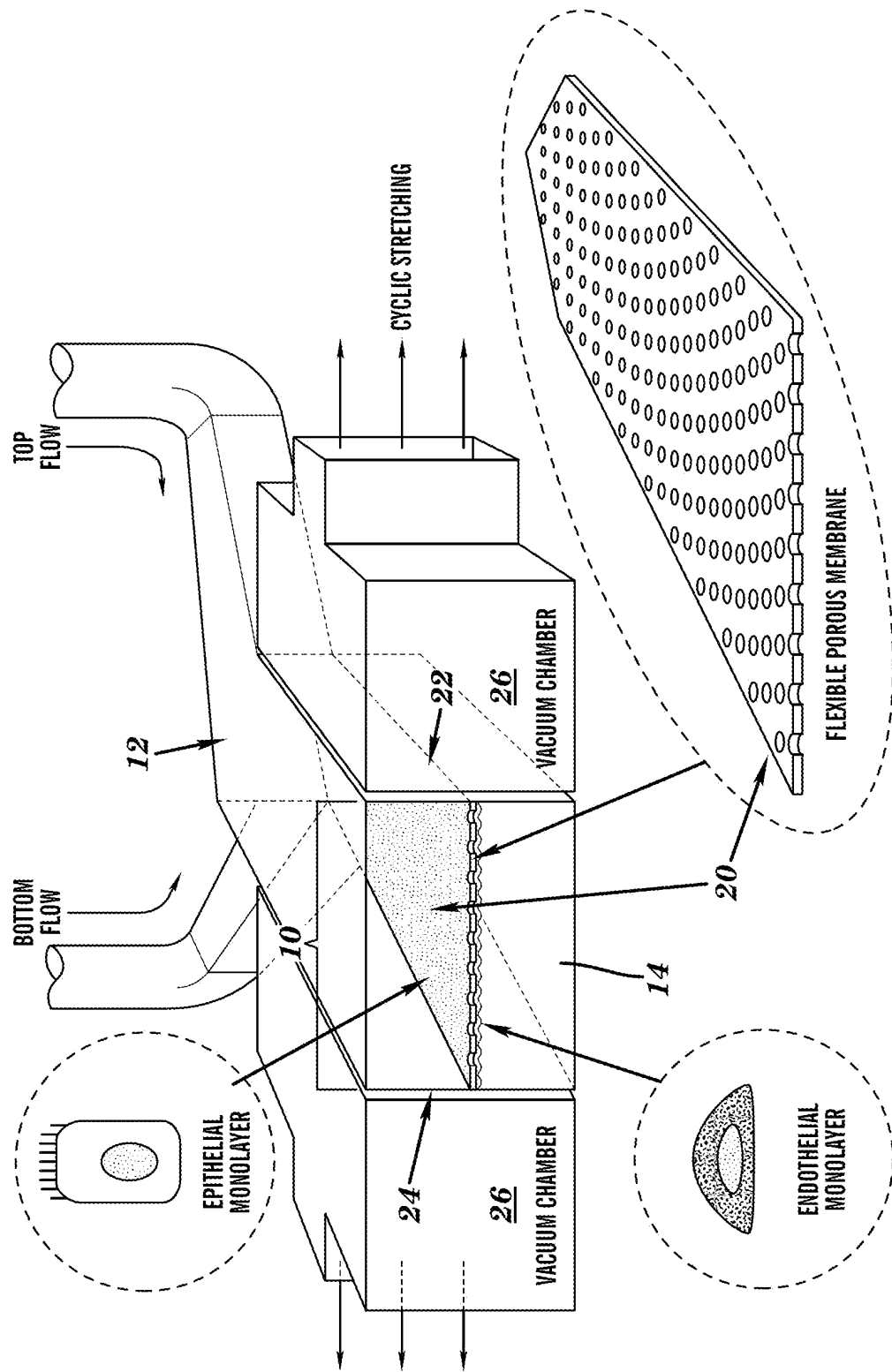
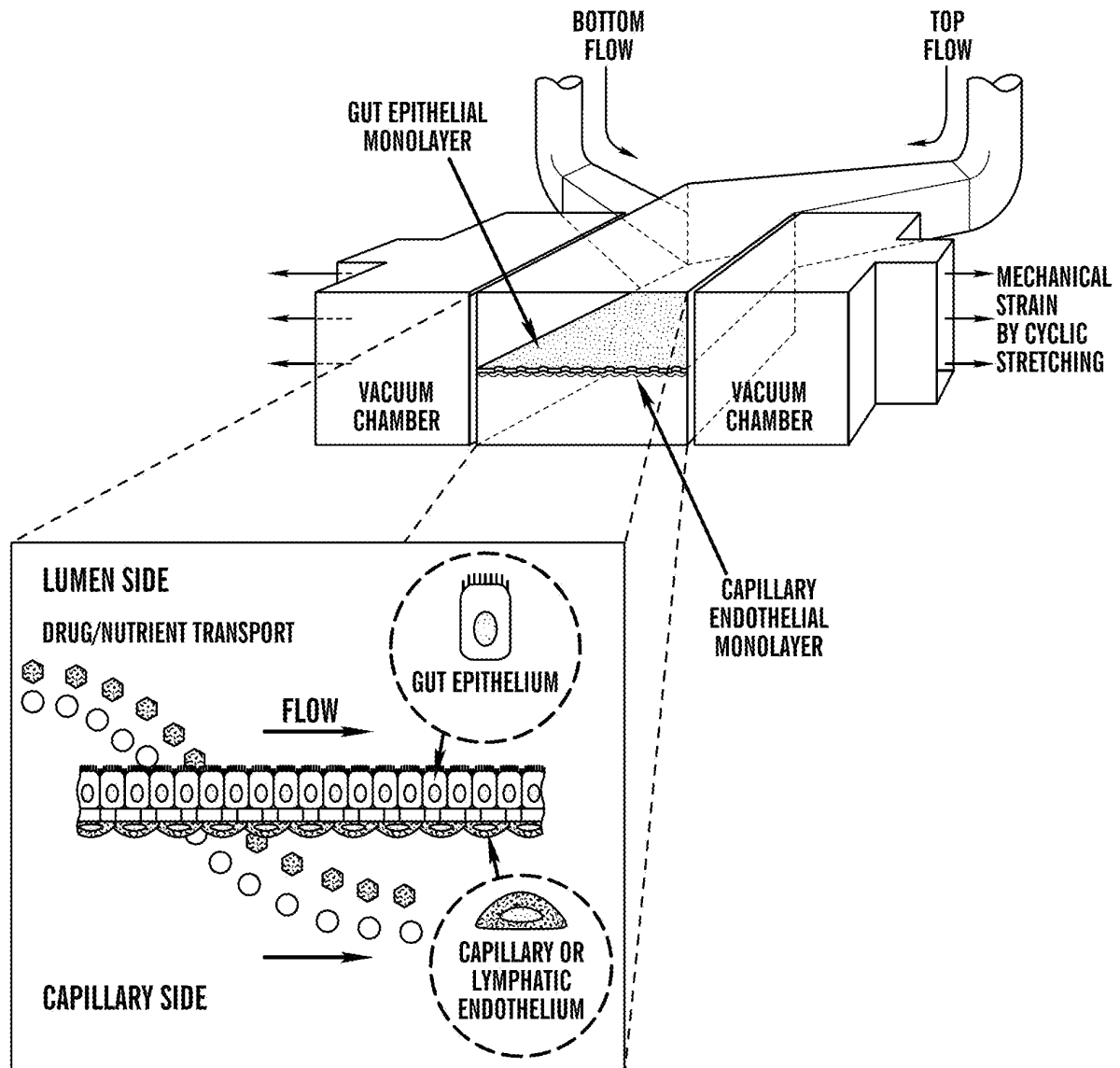


FIG. 5

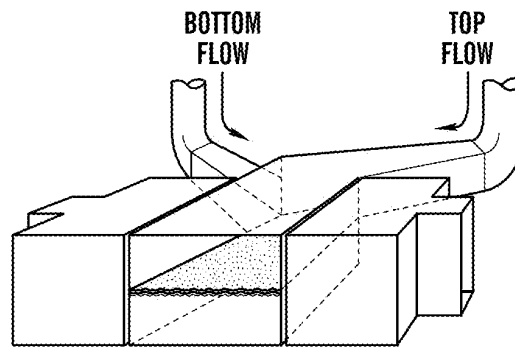
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DYNAMIC CONDITION (FLUIDIC + STRETCHING)

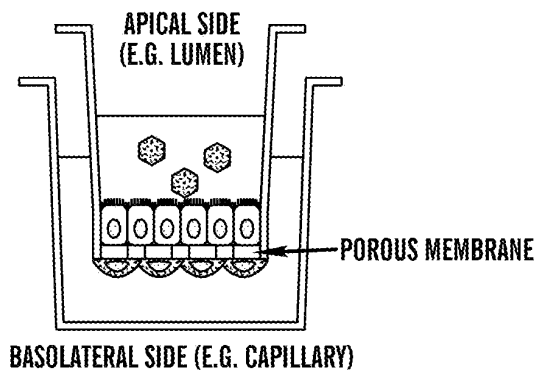
FIG. 6A

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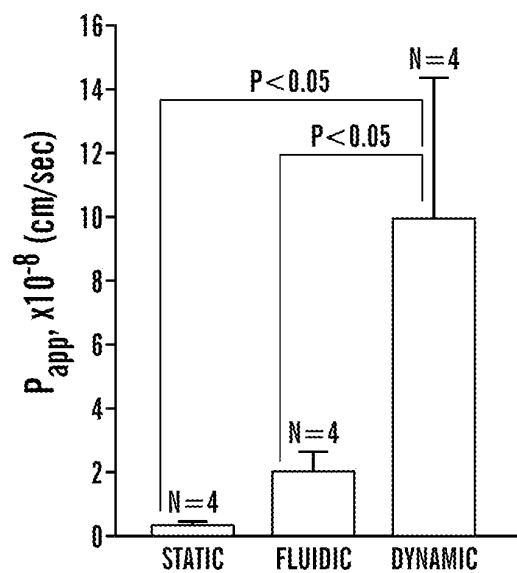
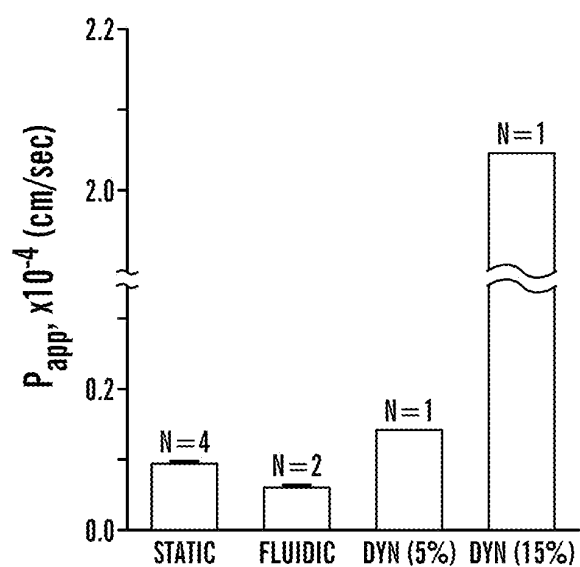
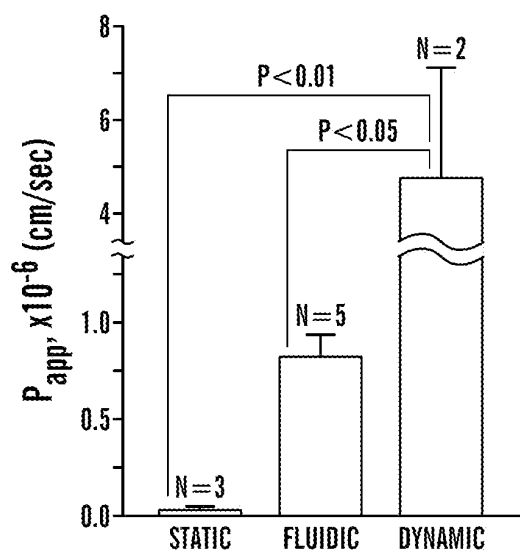
FLUIDIC CONDITION (W/O STRETCHING)

FIG. 6B



STATIC CONDITION (TRANSWELL)

FIG. 6C

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

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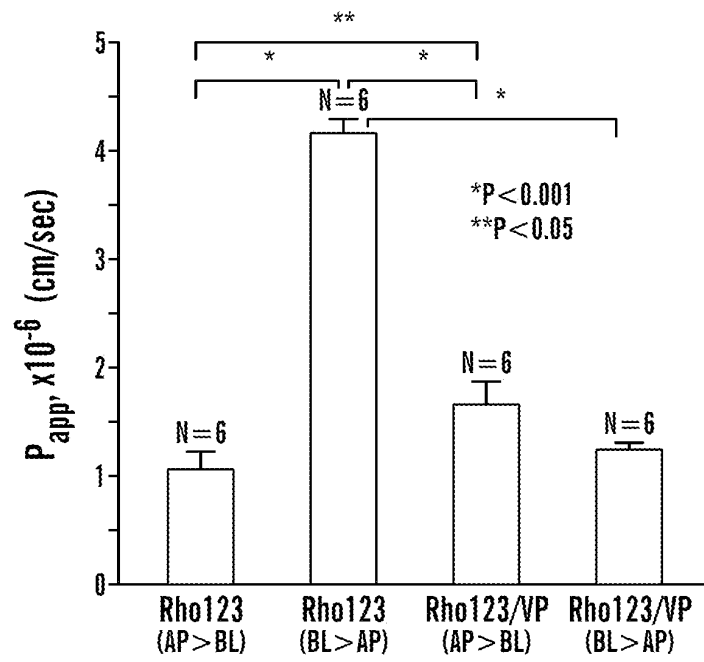


FIG. 10

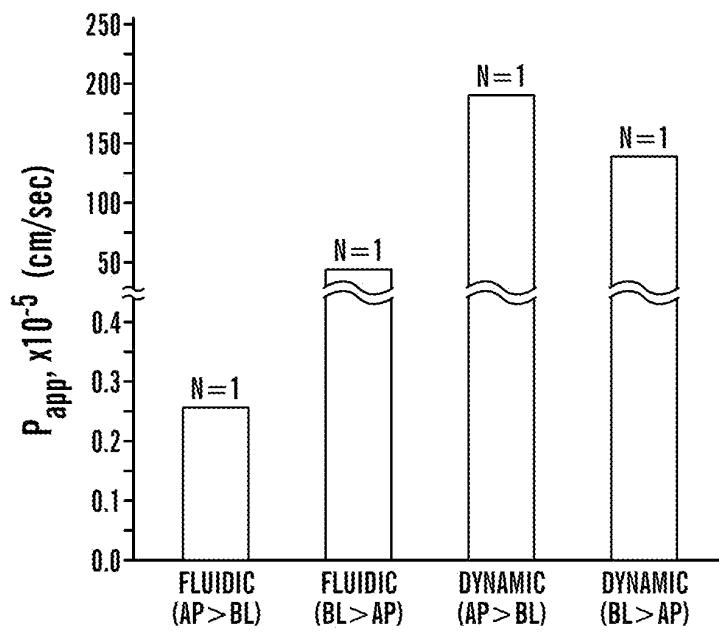


FIG. 11

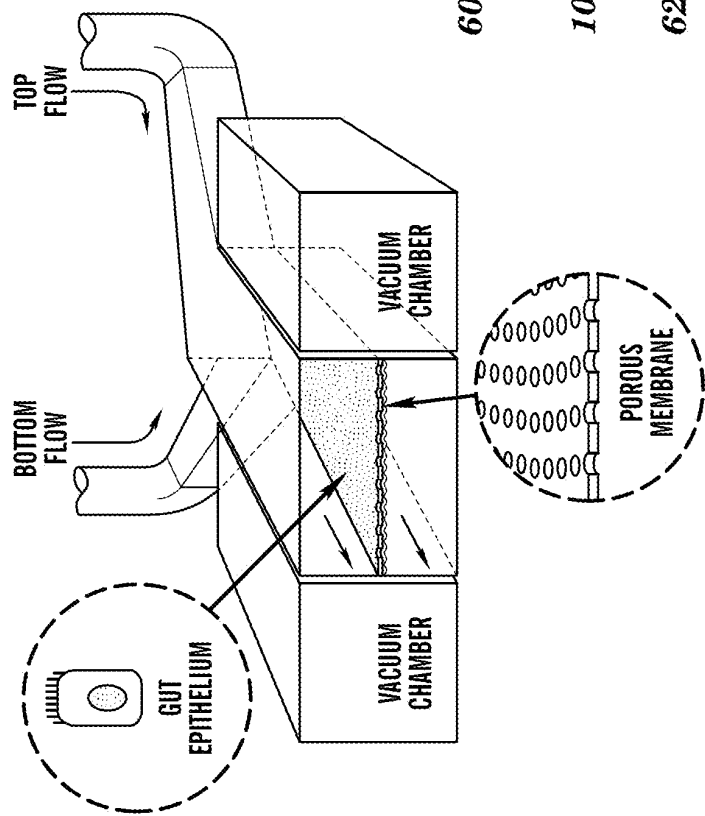


FIG. 12A

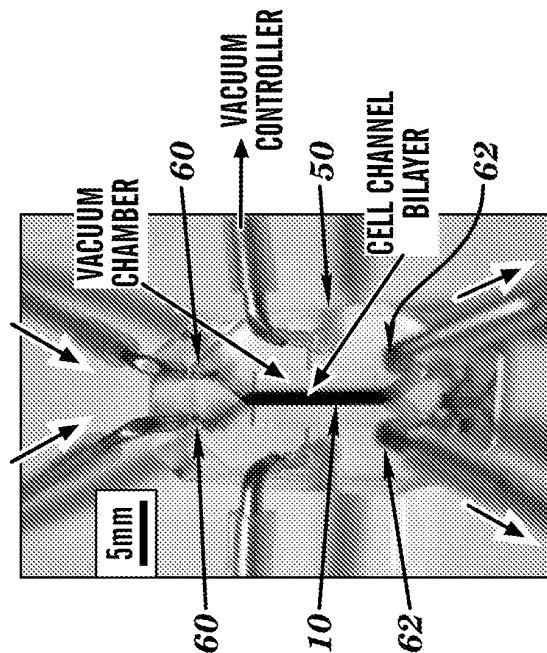


FIG. 12B

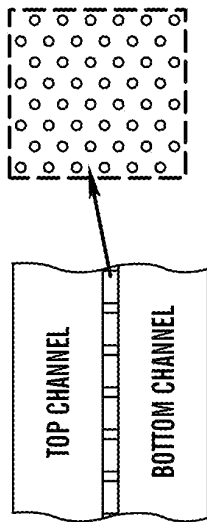


FIG. 12C

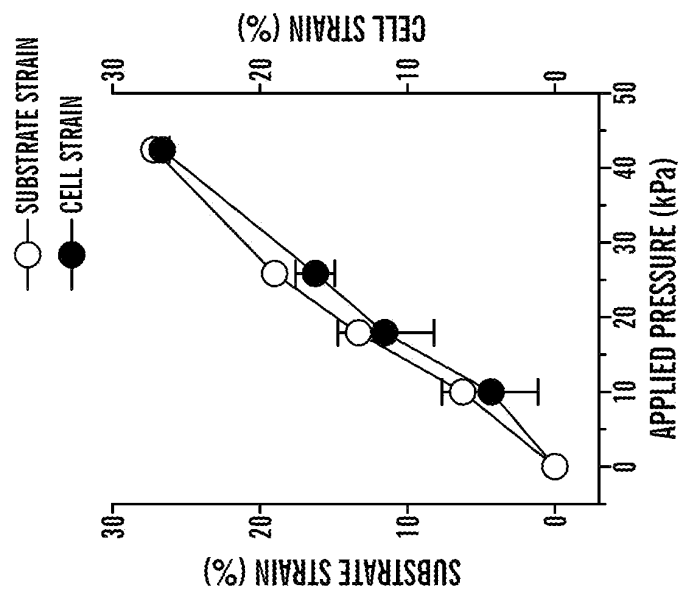


FIG. 12E

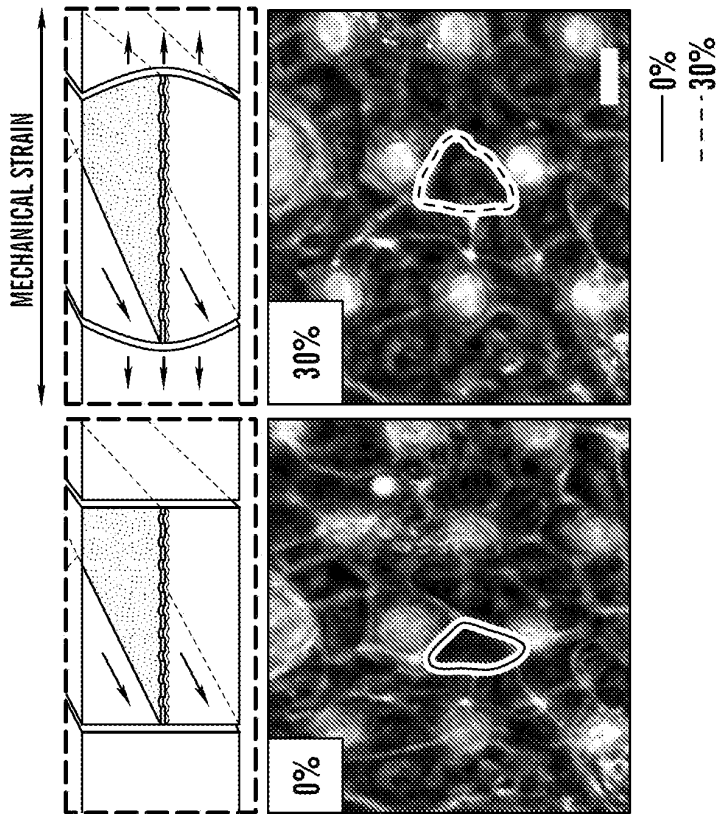
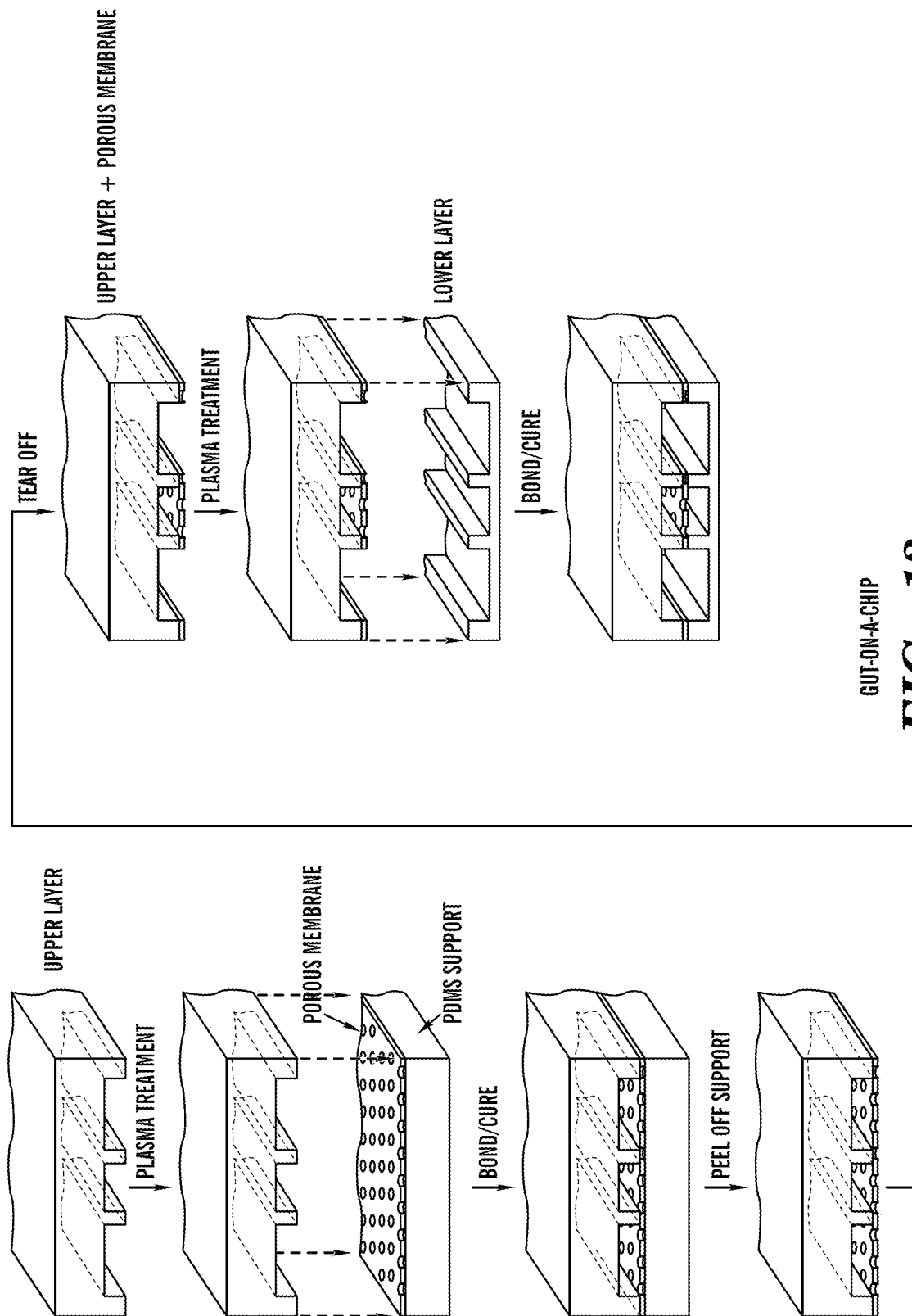
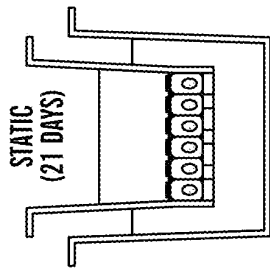


FIG. 12D

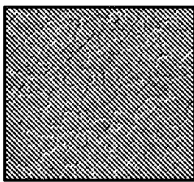


GUT-ON-A-CHIP

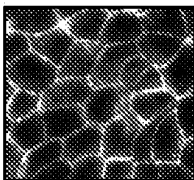
FIG. 13



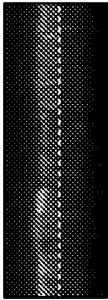
PHASE CONTRAST



OCCLUDIN

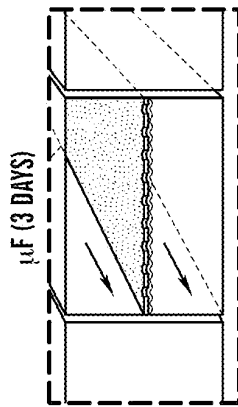


SHAPE/POLARITY

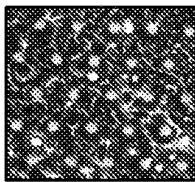


NUCLEI
F-ACTIN

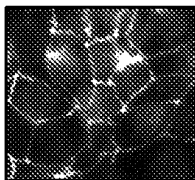
FIG. 14A



PHASE CONTRAST



OCCLUDIN



SHAPE/POLARITY

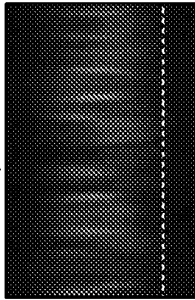
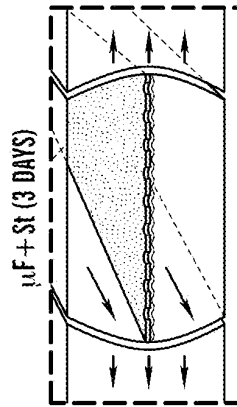
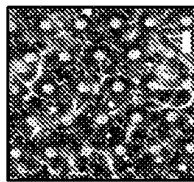


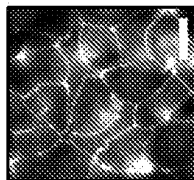
FIG. 14B



PHASE CONTRAST



OCCLUDIN



SHAPE/POLARITY

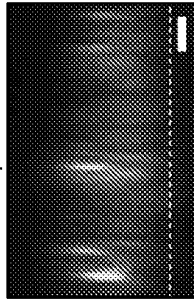


FIG. 14C

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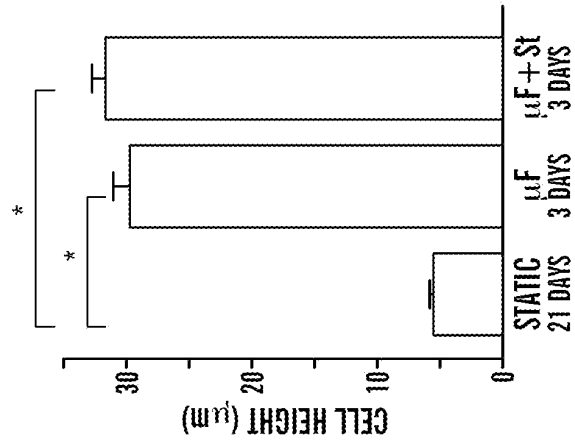


FIG. 14D

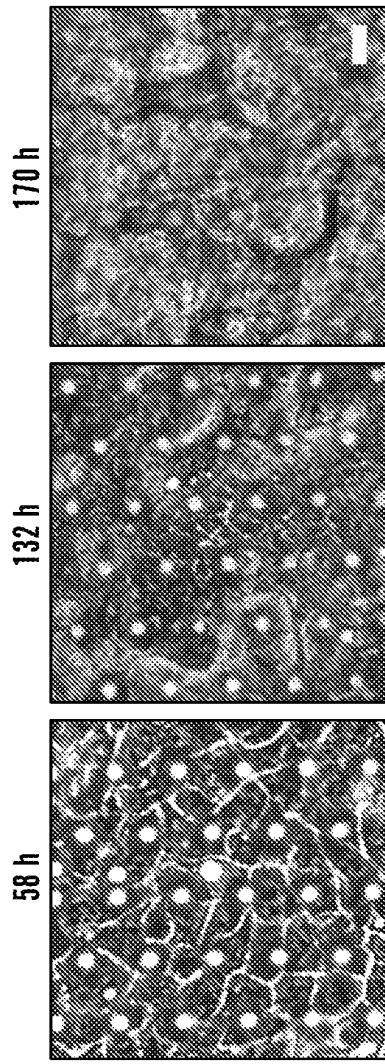


FIG. 15A

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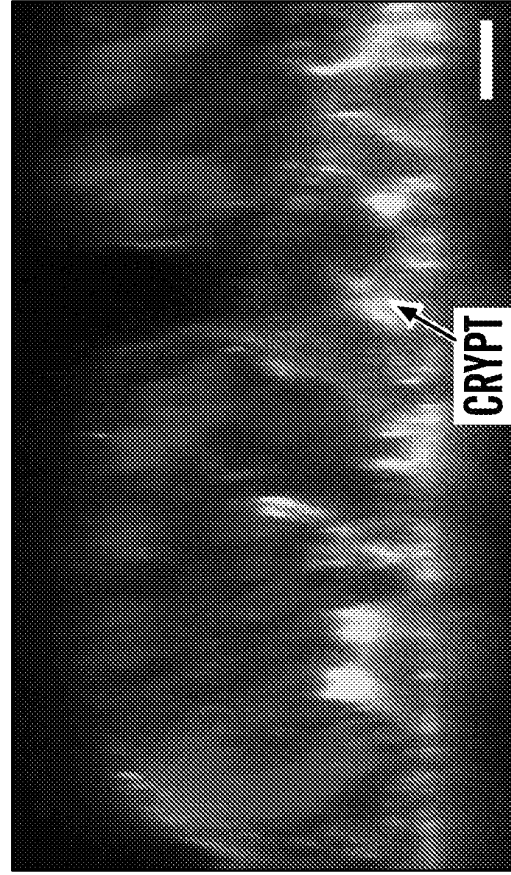


FIG. 15B

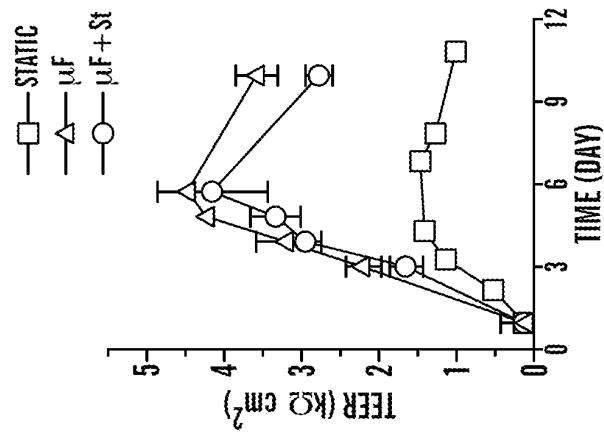


FIG. 16A

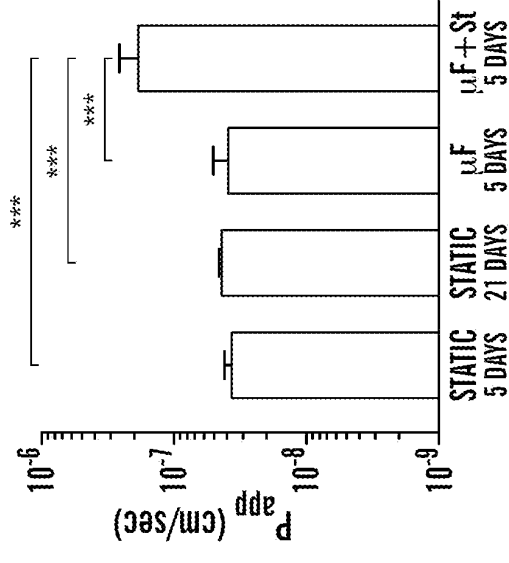


FIG. 16B

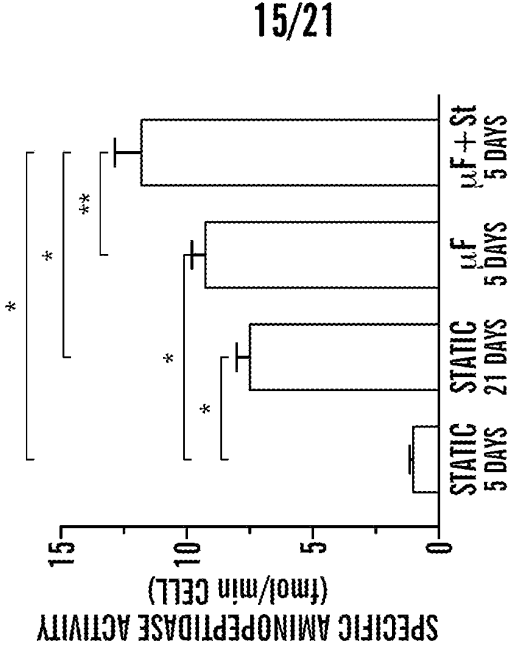


FIG. 16C

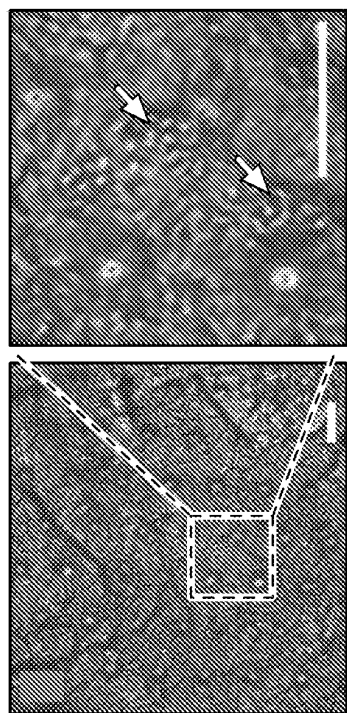


FIG. 17A

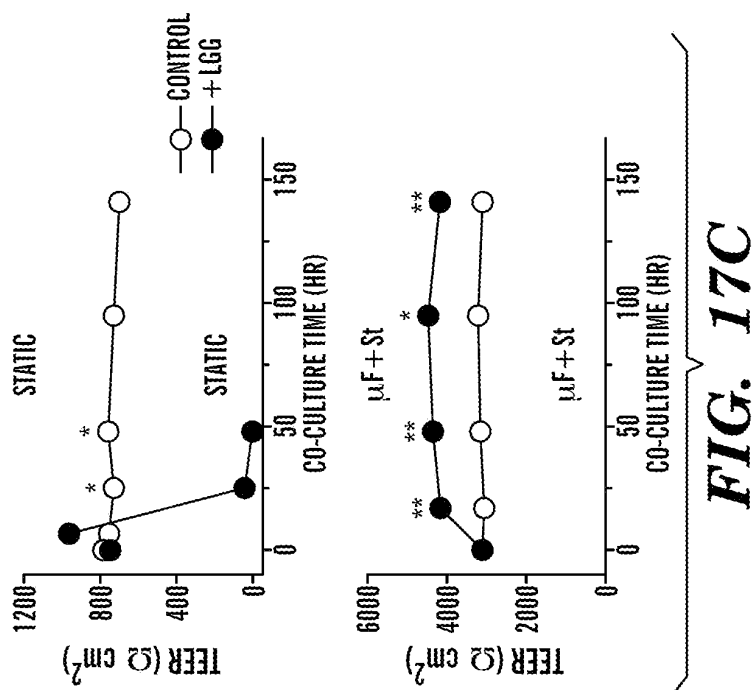


FIG. 17C

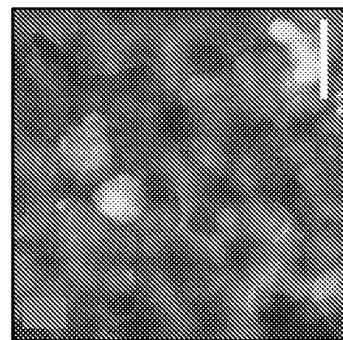


FIG. 17B

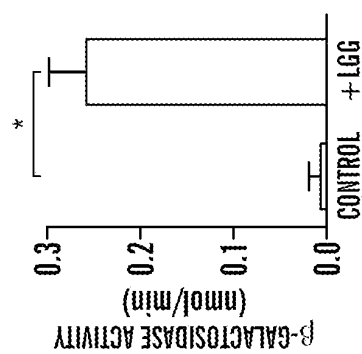


FIG. 17D

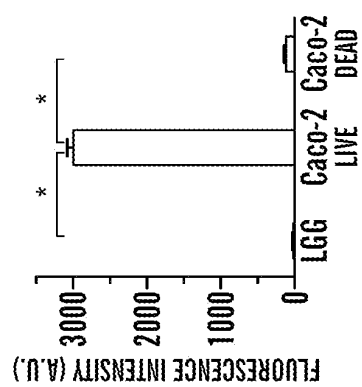


FIG. 17E

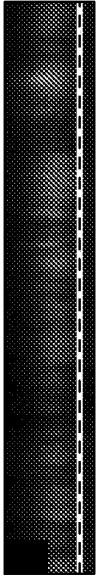


FIG. 18A

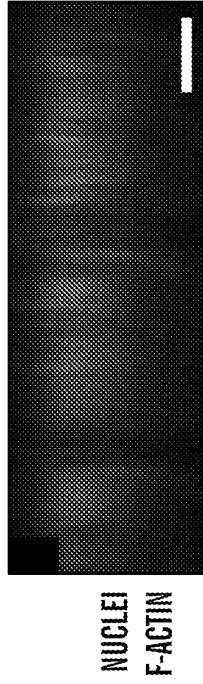


FIG. 18B

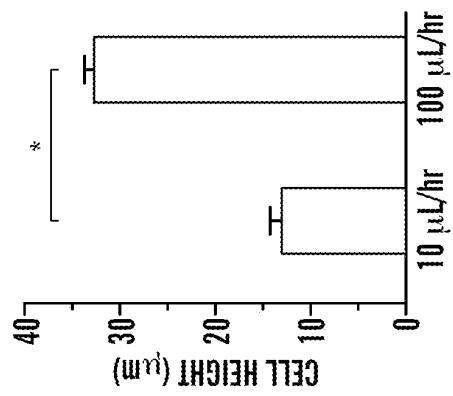


FIG. 18C

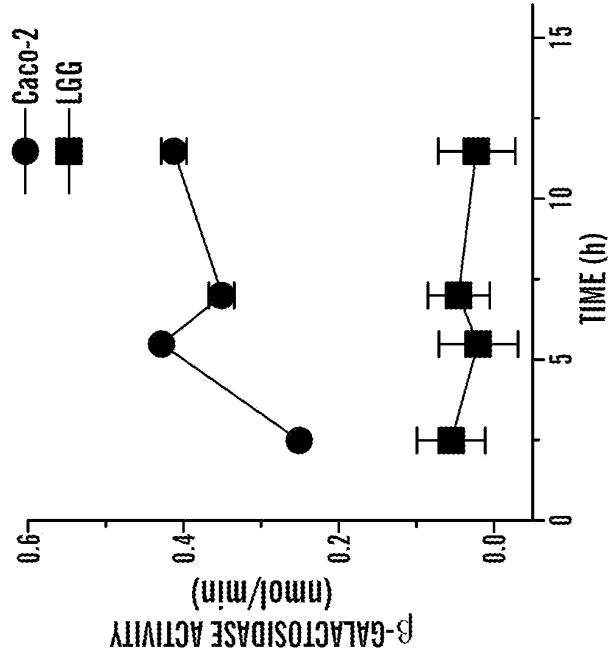
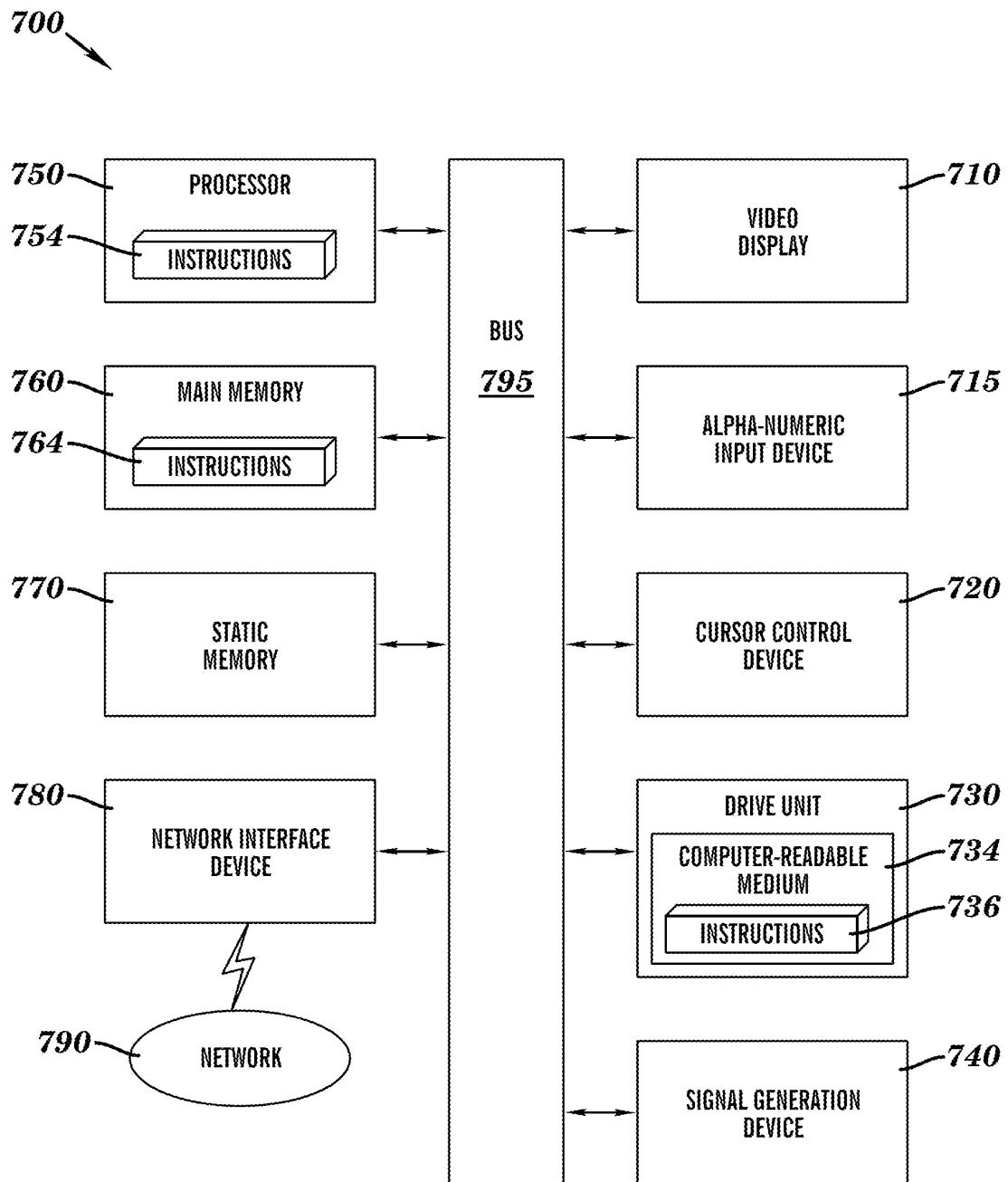
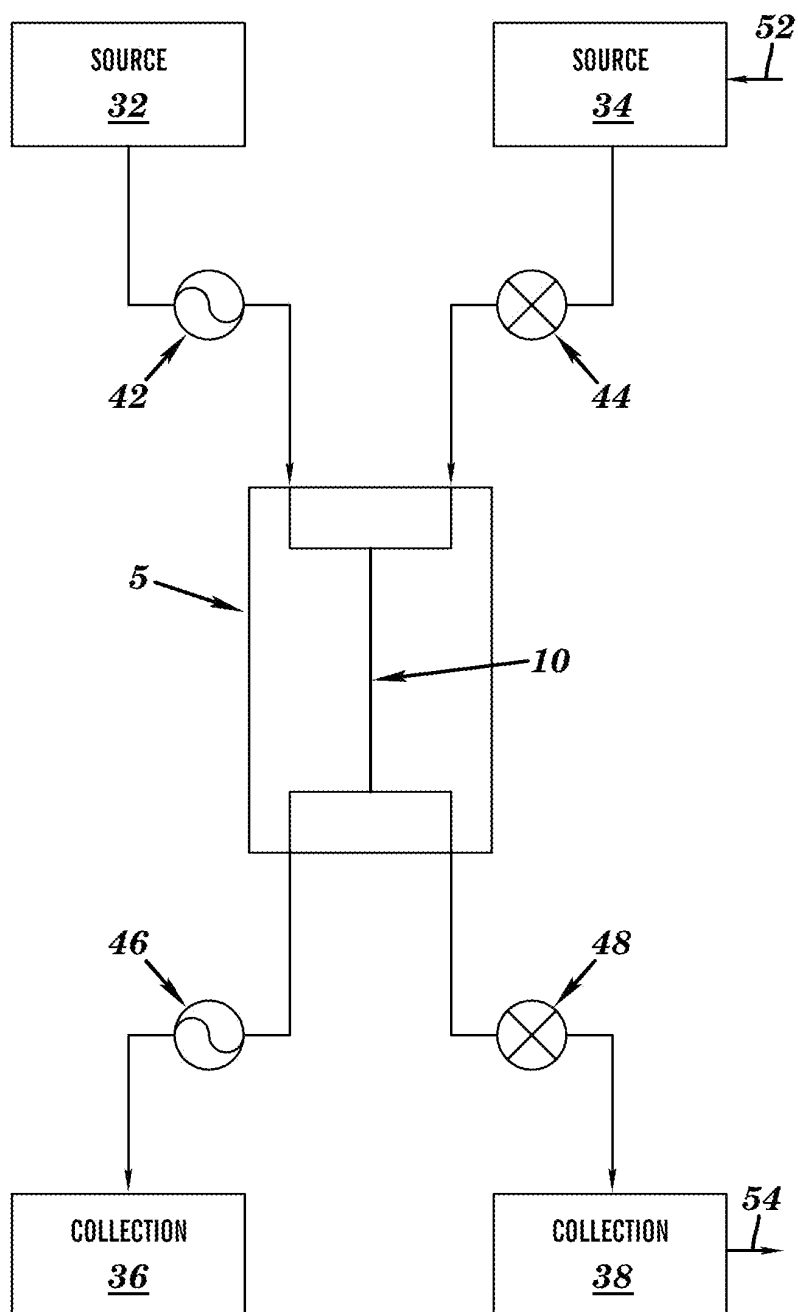
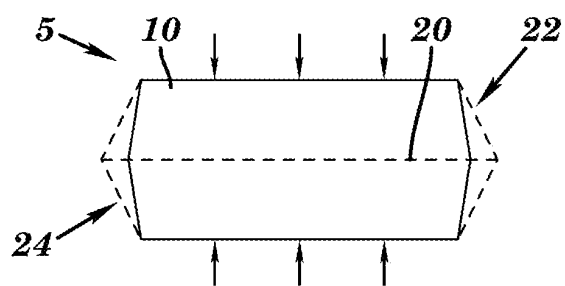
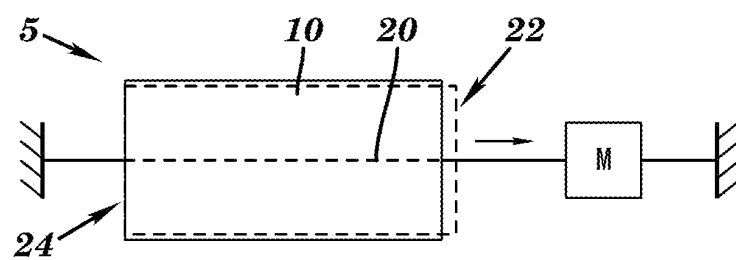
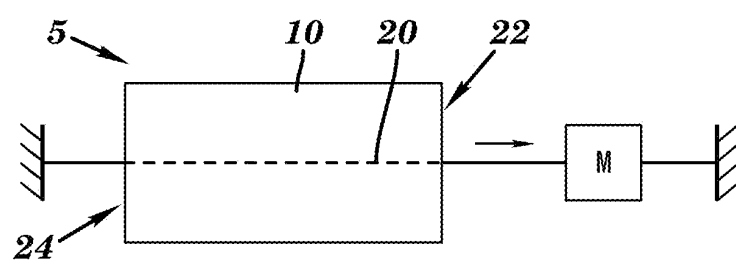
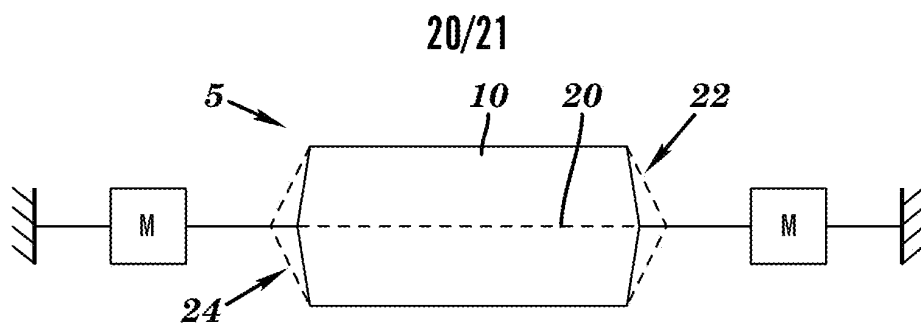


FIG. 19

**FIG. 20**

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**FIG. 21**



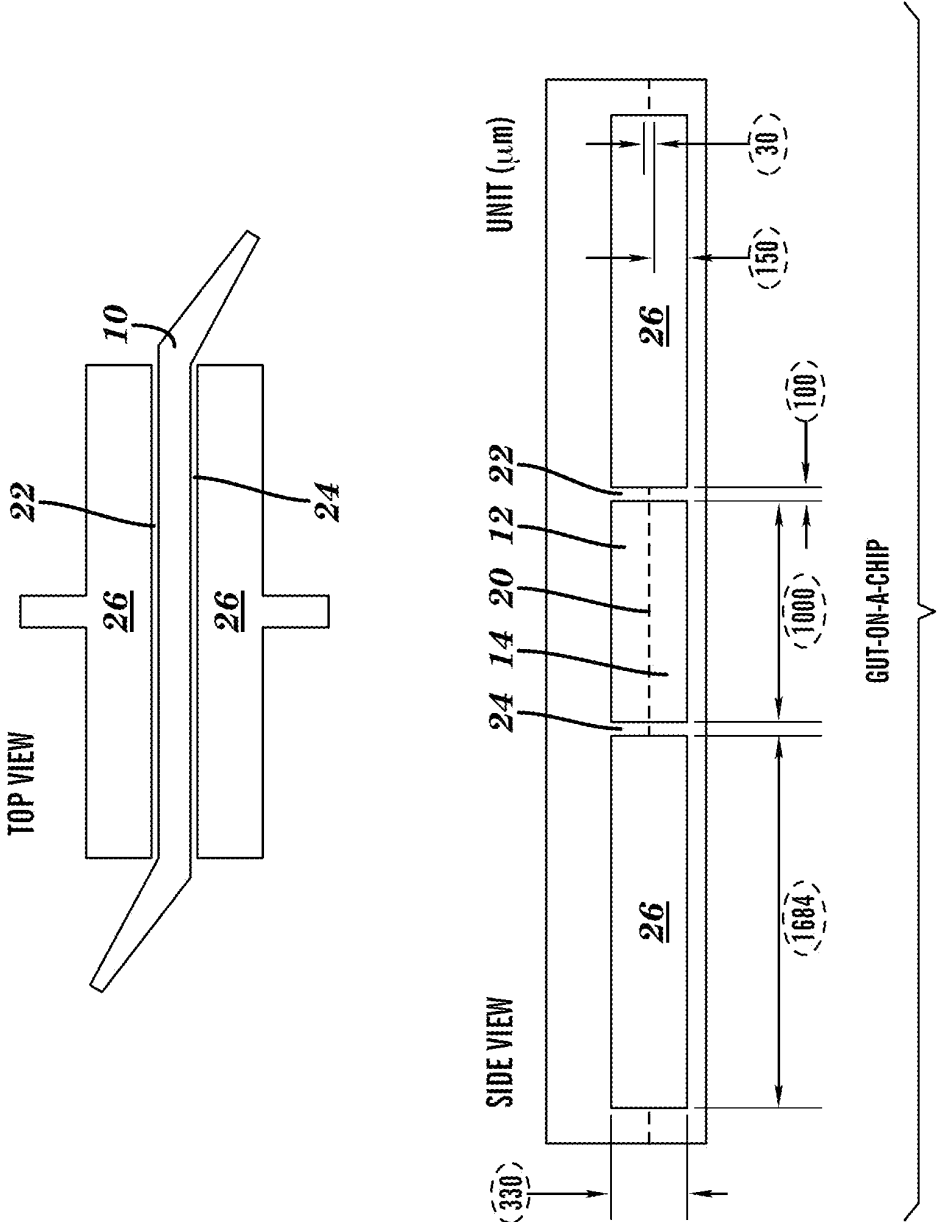


FIG. 23