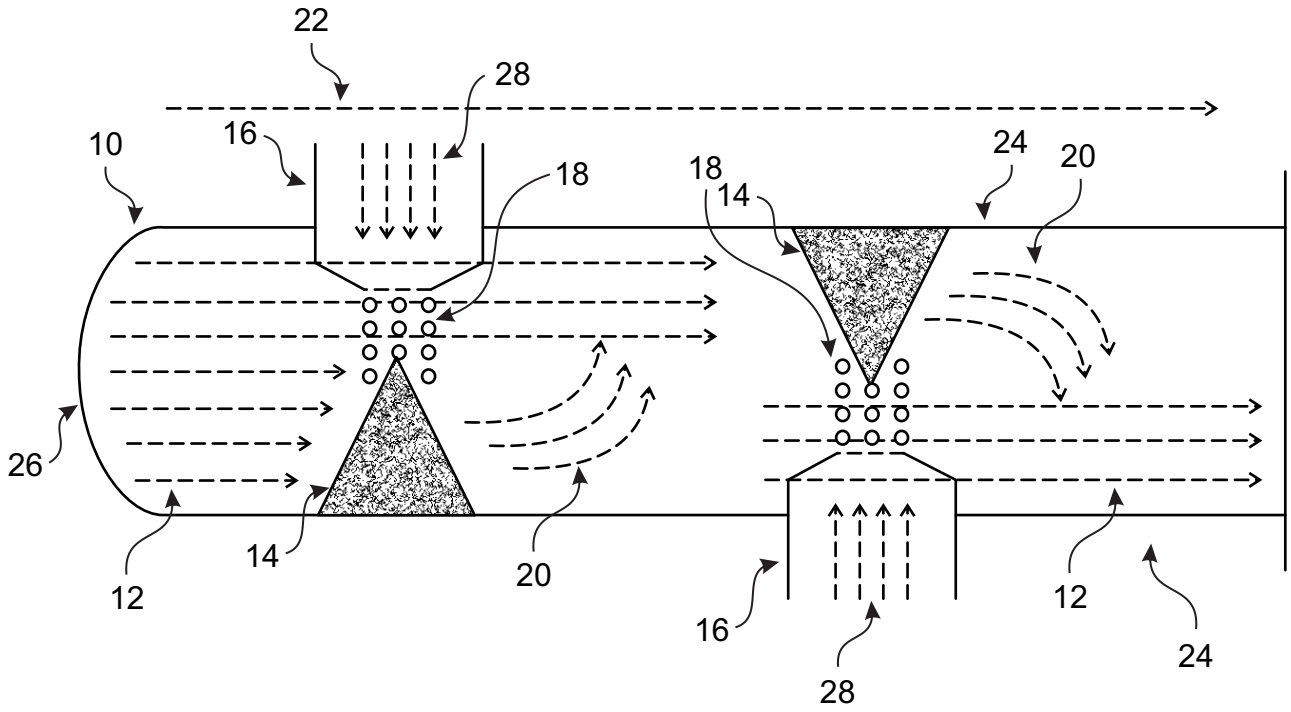

22
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FIG. 1

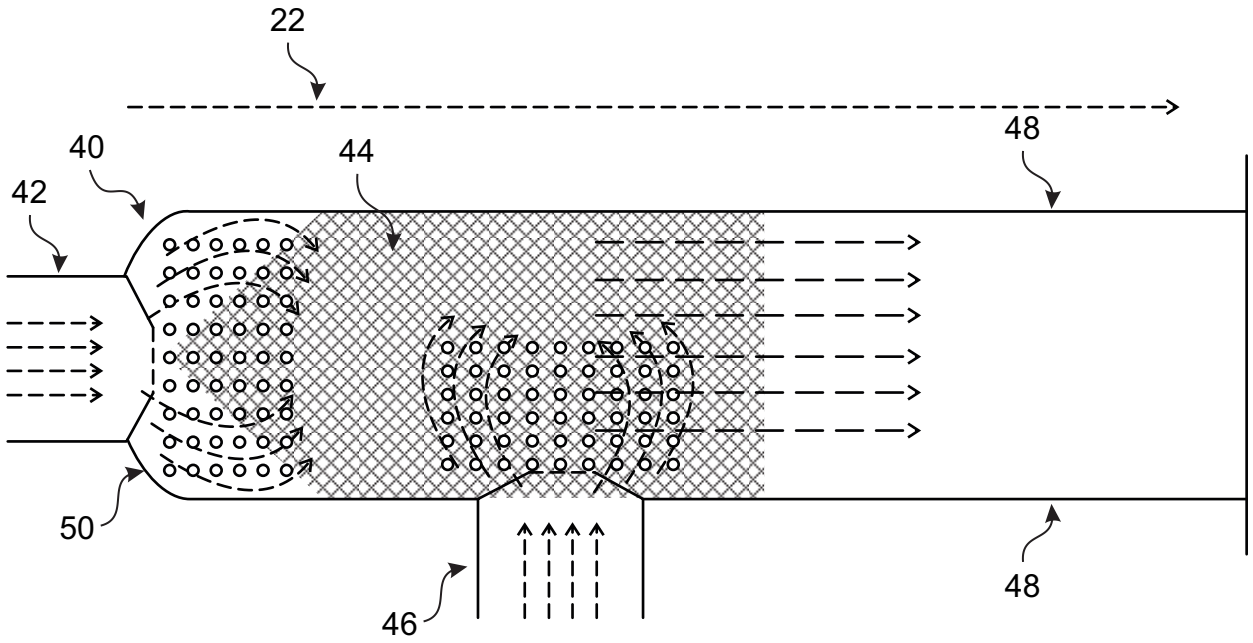

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46
48

FIG. 2

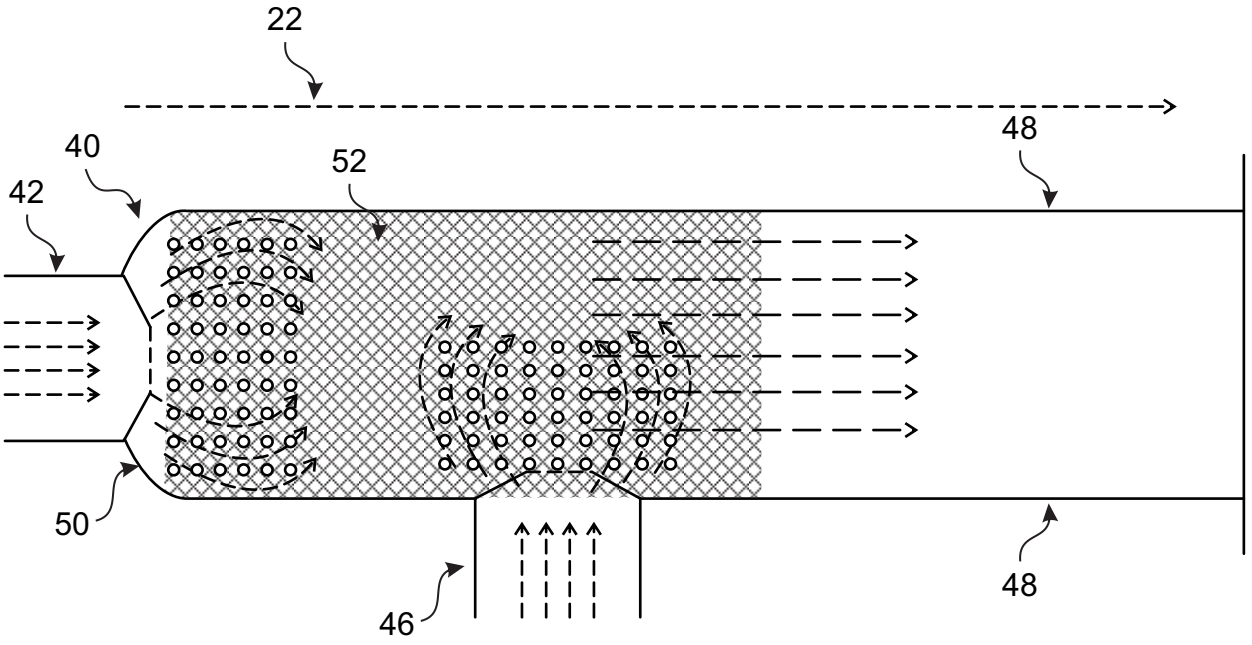


FIG. 3

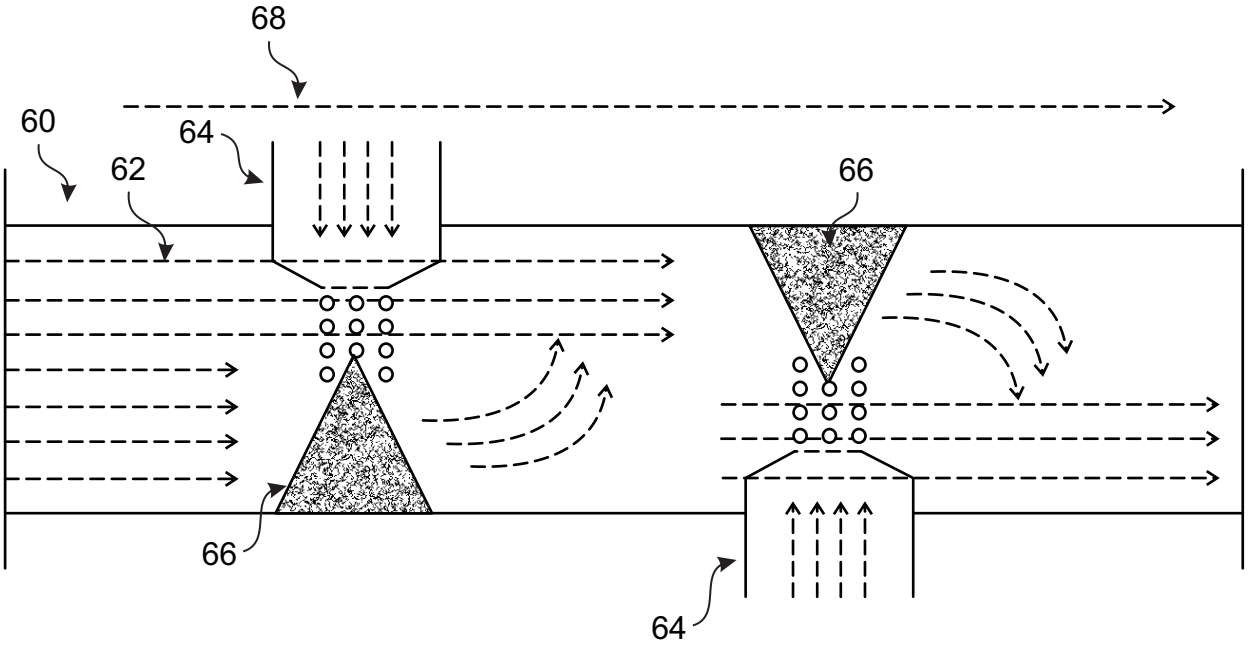


FIG. 4

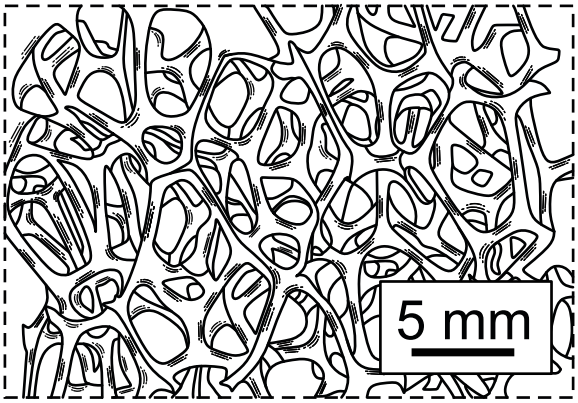


FIG. 5

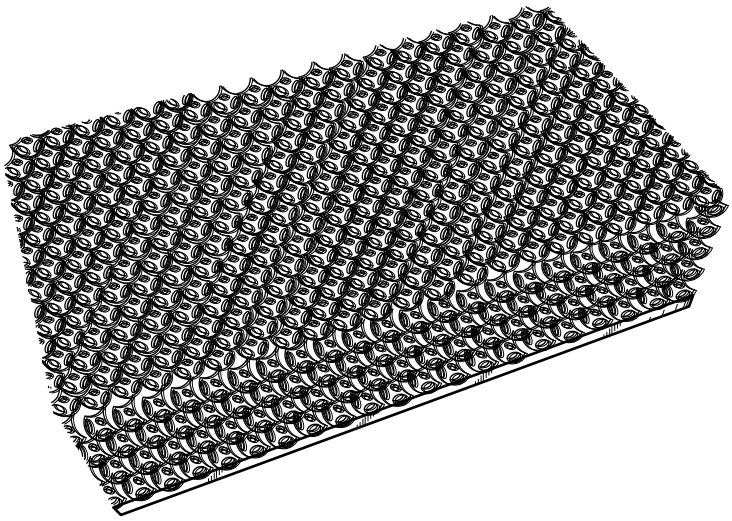


FIG. 6

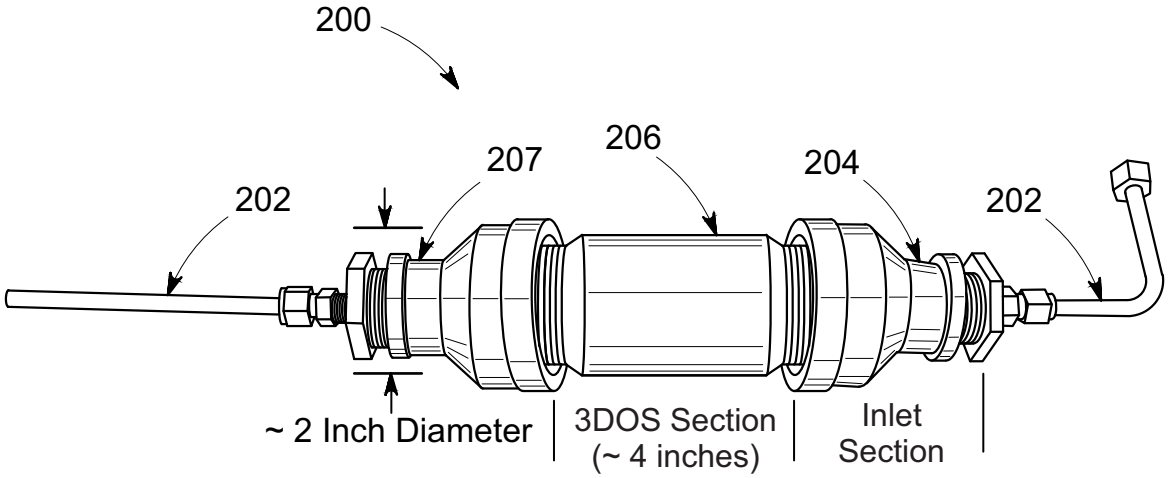


FIG. 7

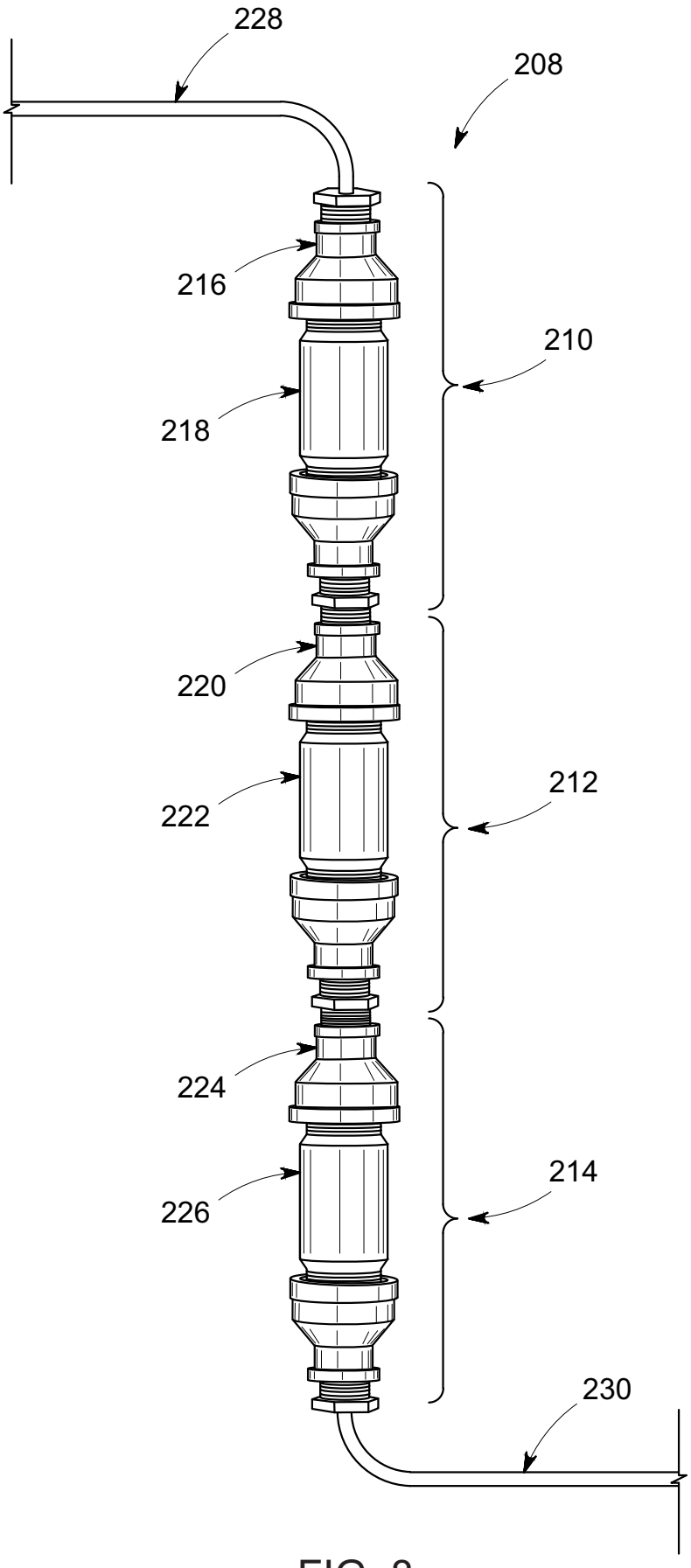


FIG. 8

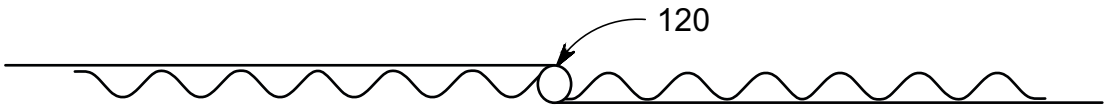


FIG. 9

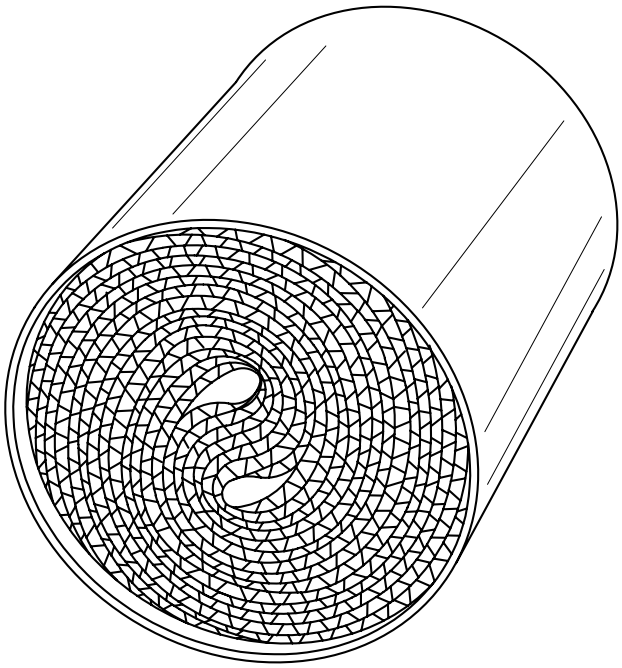


FIG. 10

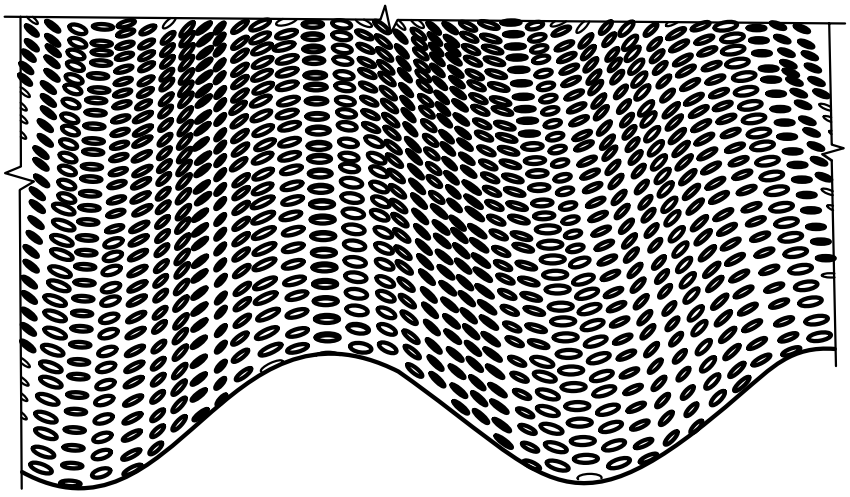


FIG. 11

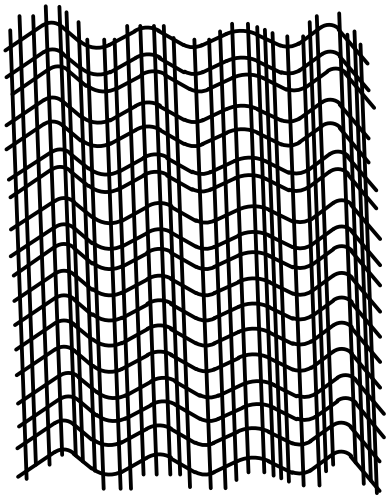


FIG. 12

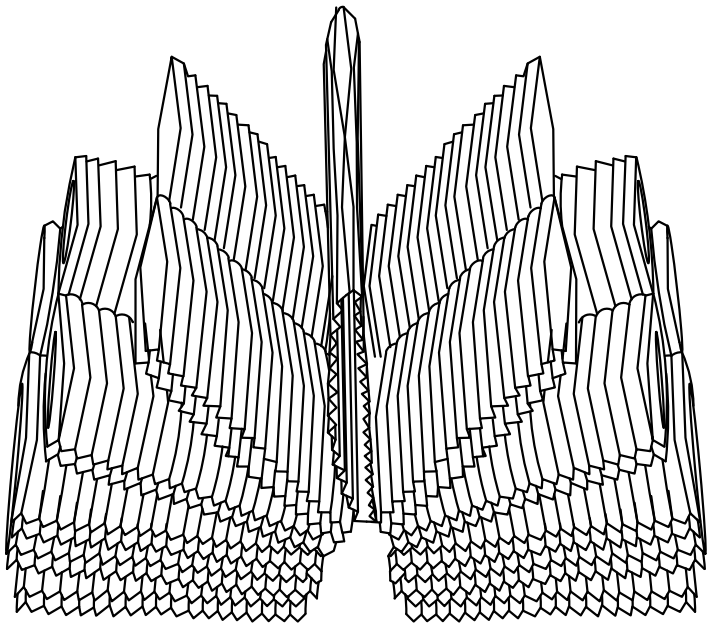


FIG. 13

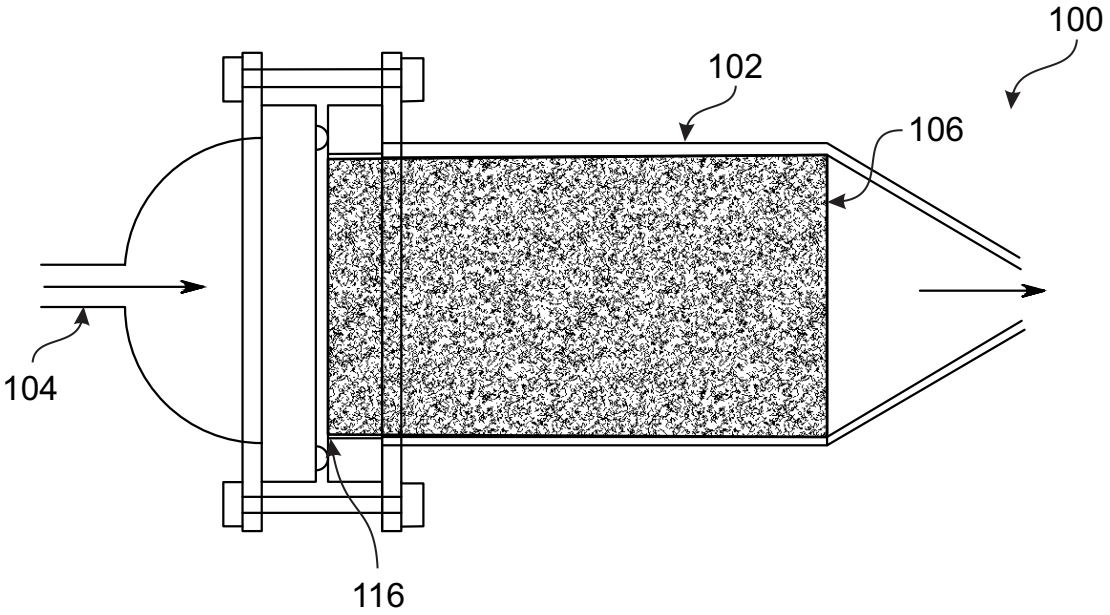


FIG. 14

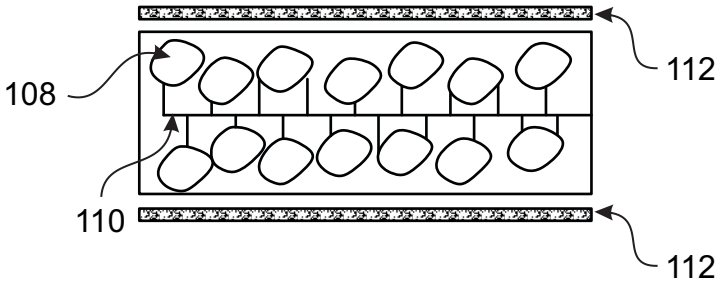


FIG. 15

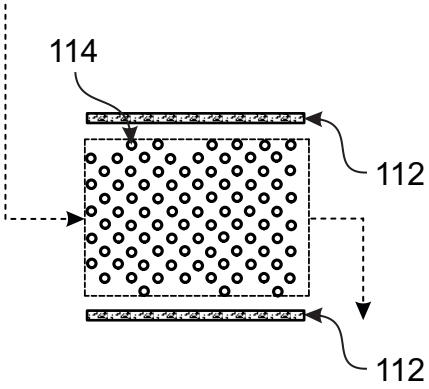


FIG. 16

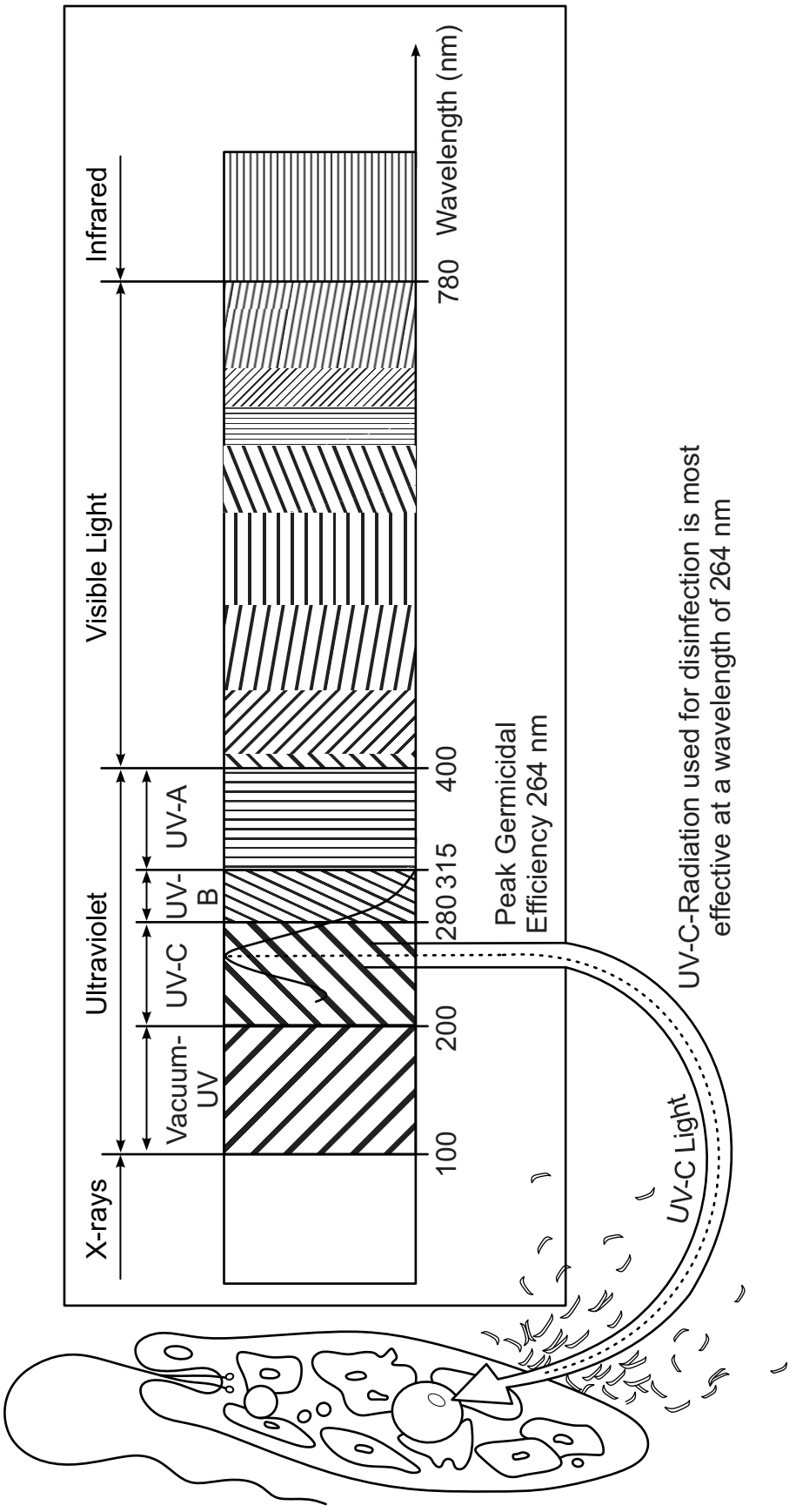

Infrared
Visible Light
Ultraviolet
X-rays
Vacuum-UV
UV-C
UV-B
UV-A
100
200
280 315
400
780 Wavelength (nm)
Peak Germicidal Efficiency 264 nm
UV-C-Radiation used for disinfection is most effective at a wavelength of 264 nm
UV-C Light

FIG. 17

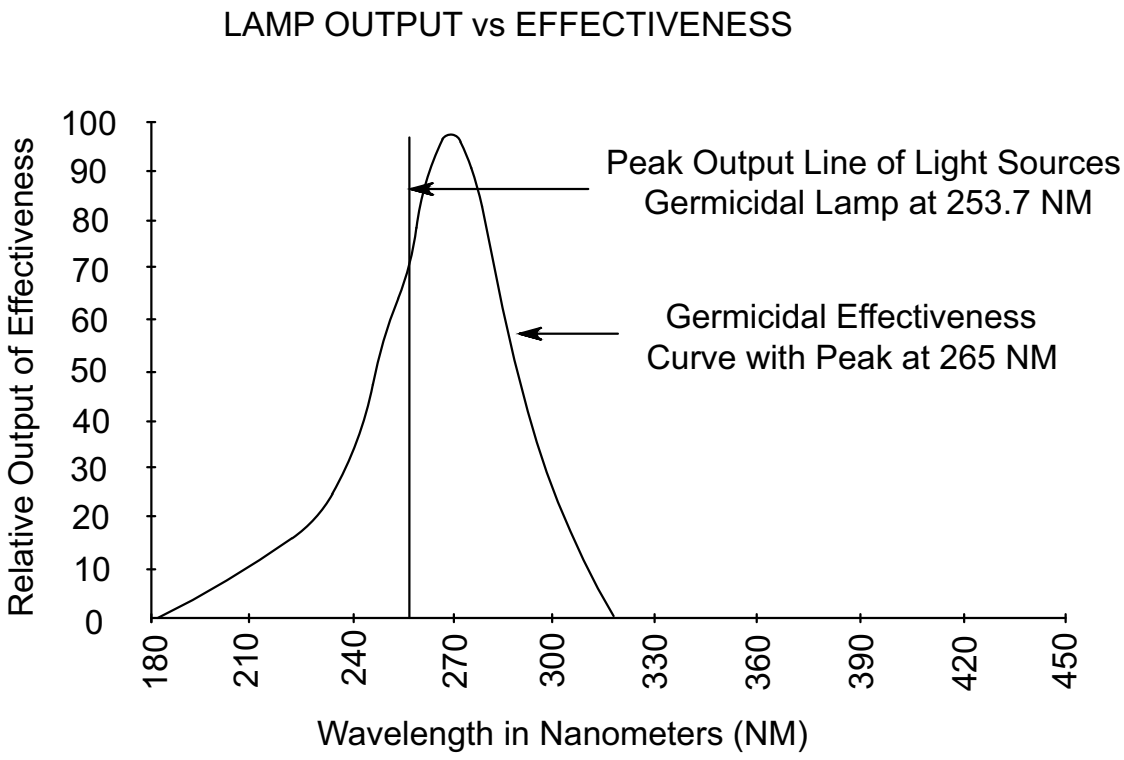

LAMP OUTPUT vs EFFECTIVENESS
Relative Output of Effectiveness
100
90
80
70
60
50
40
30
20
10
0
180
210
240
270
300
330
360
390
420
450
Wavelength in Nanometers (NM)
Peak Output Line of Light Sources
Germicidal Lamp at 253.7 NM
Germicidal Effectiveness
Curve with Peak at 265 NM

FIG. 18

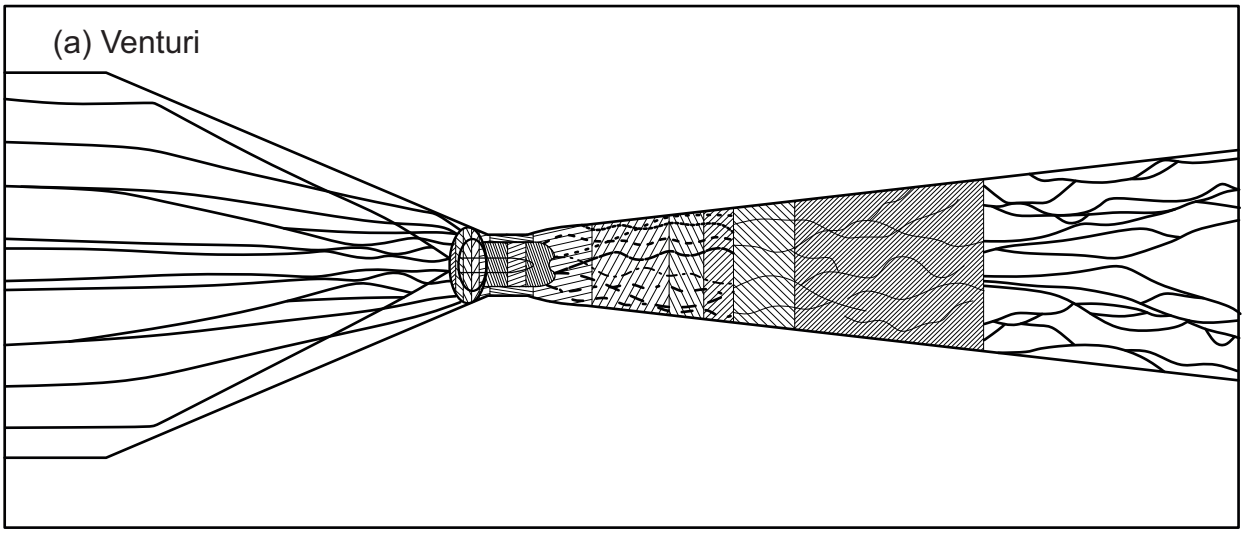


FIG. 19

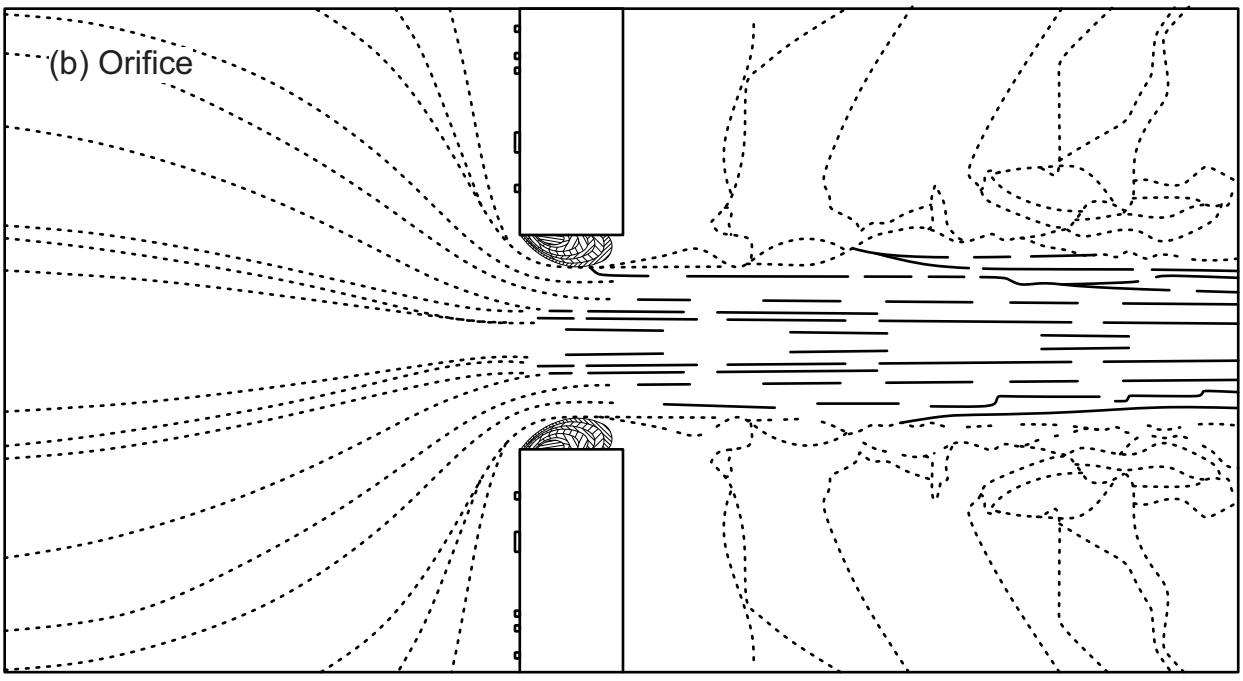


FIG. 20