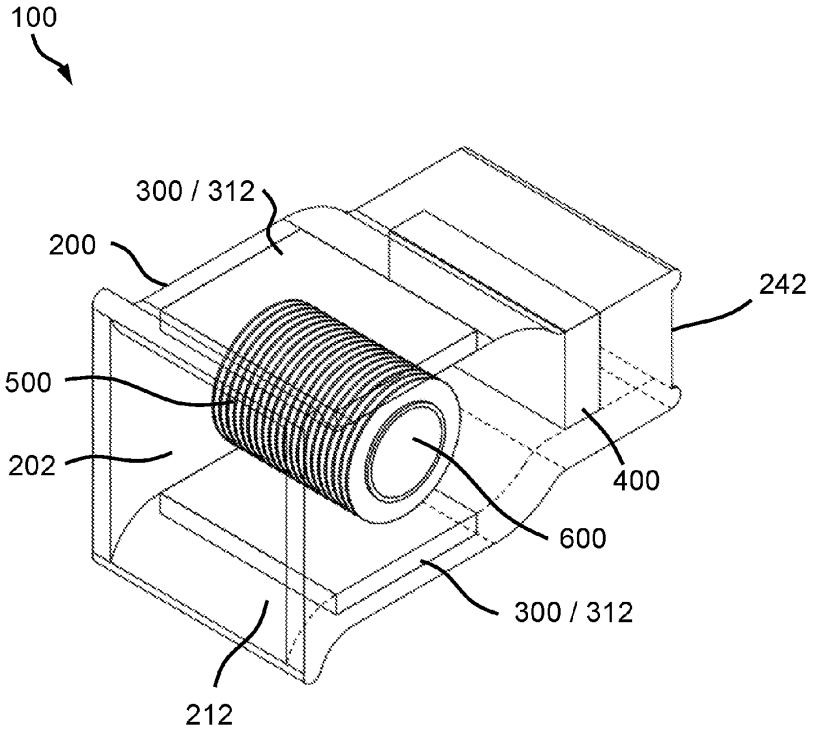


FIG. 1

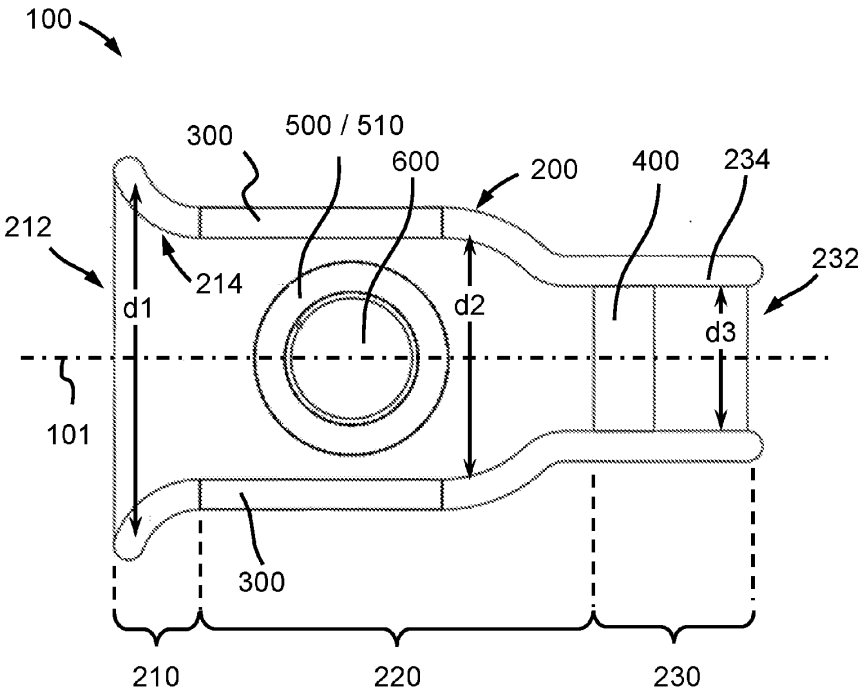

100
300
500 / 510
600
200
400
234
212
214
232
d1
d2
d3
101
300
210
220
230

FIG. 2

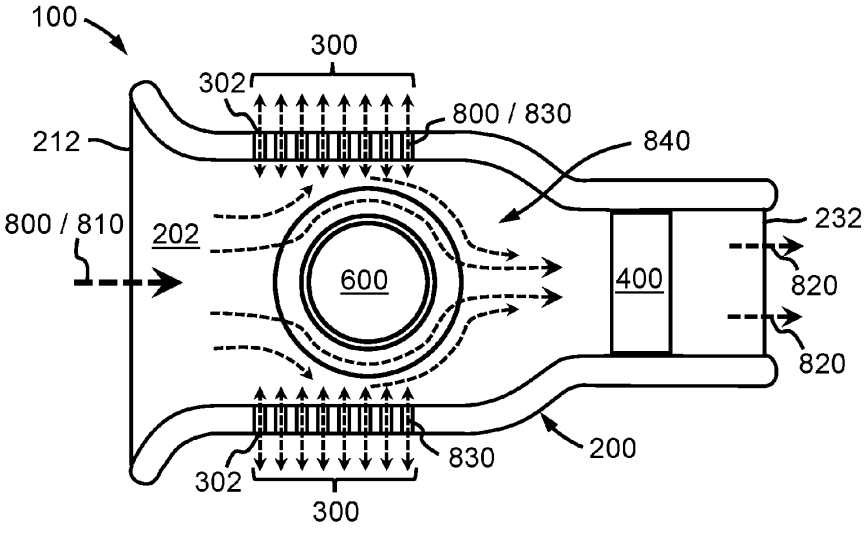

100
300
302
800 / 830
212
840
800 / 810
202
232
600
400
820
820
830
200
302
300

FIG. 3

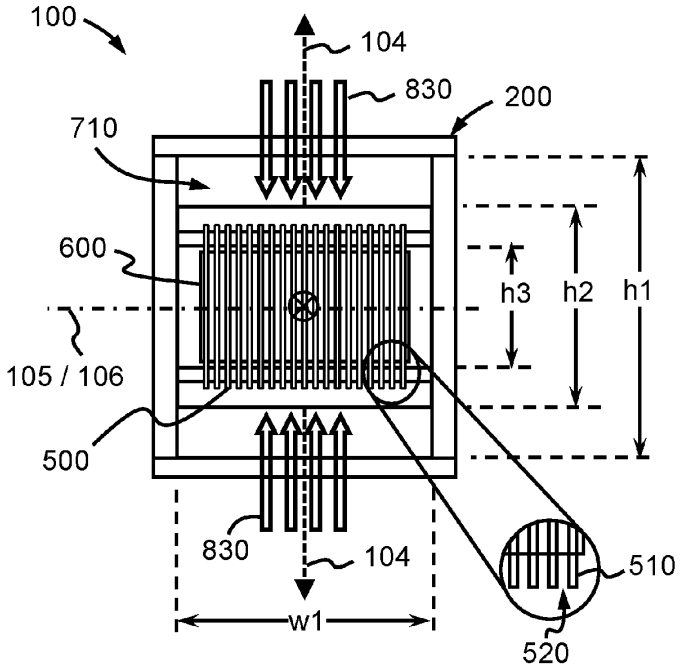

100
104
830
200
710
600
h3
h2
h1
105 / 106
500
830
104
510
w1
520

FIG. 4

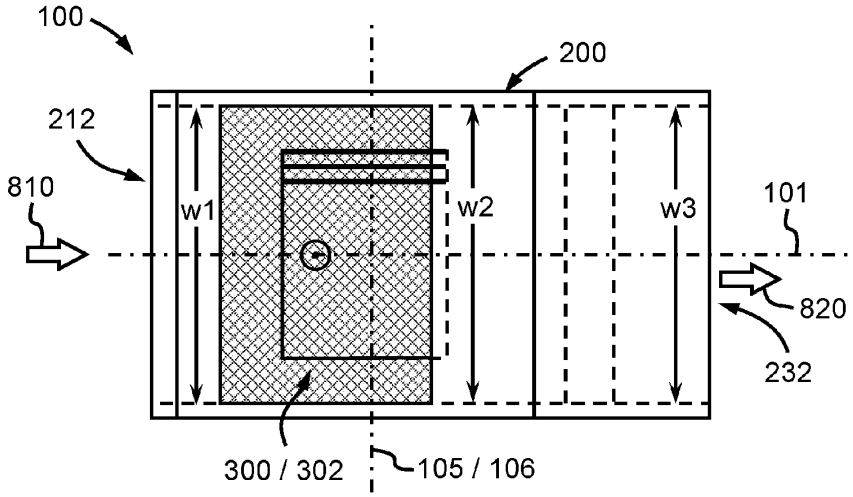

100
200
212
810
w1
w2
w3
101
820
232
300 / 302
105 / 106

FIG. 5

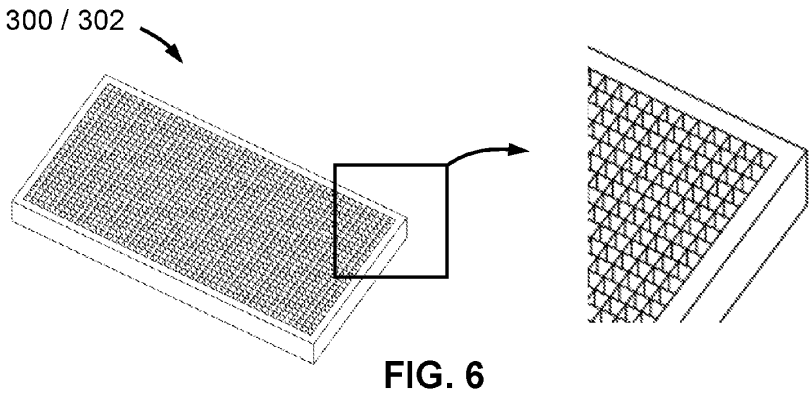


FIG. 6

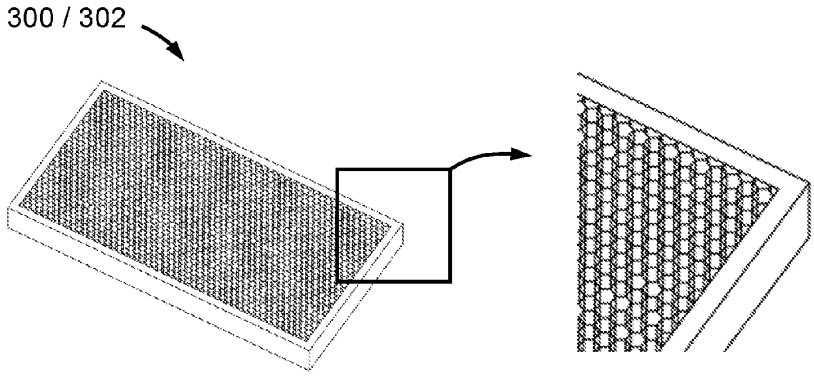


FIG. 7

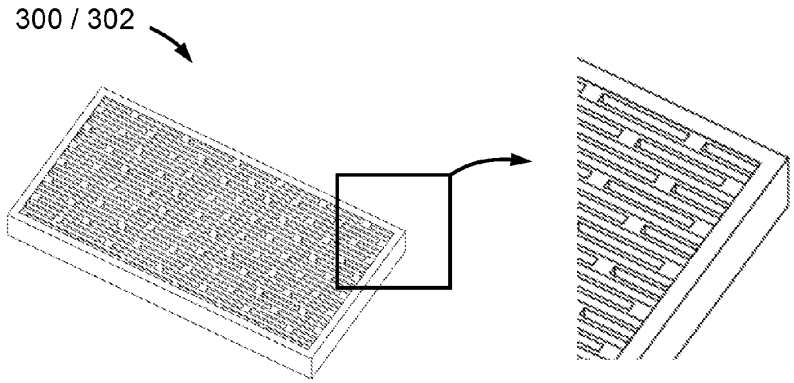


FIG. 8

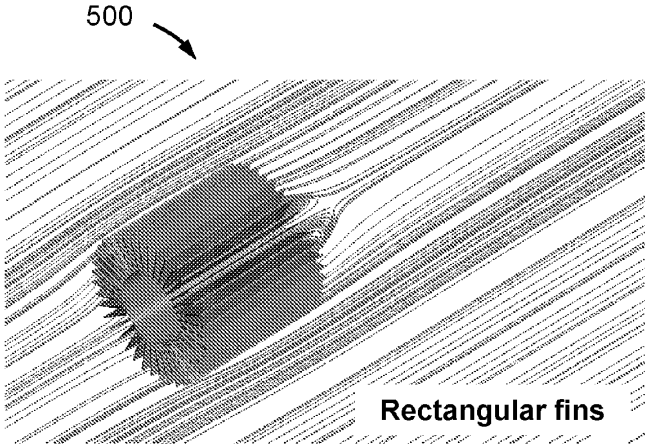


FIG. 9

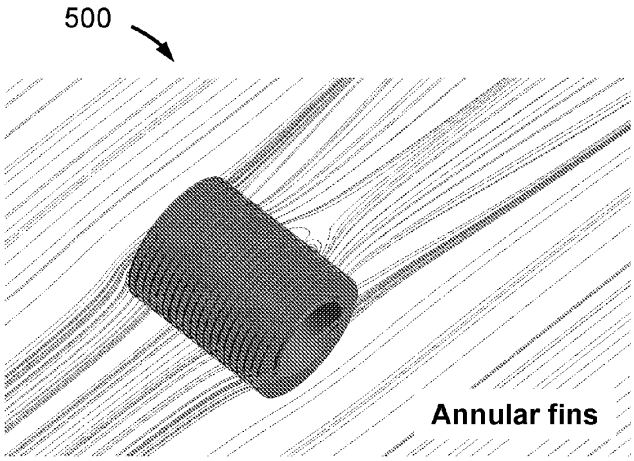


FIG. 10

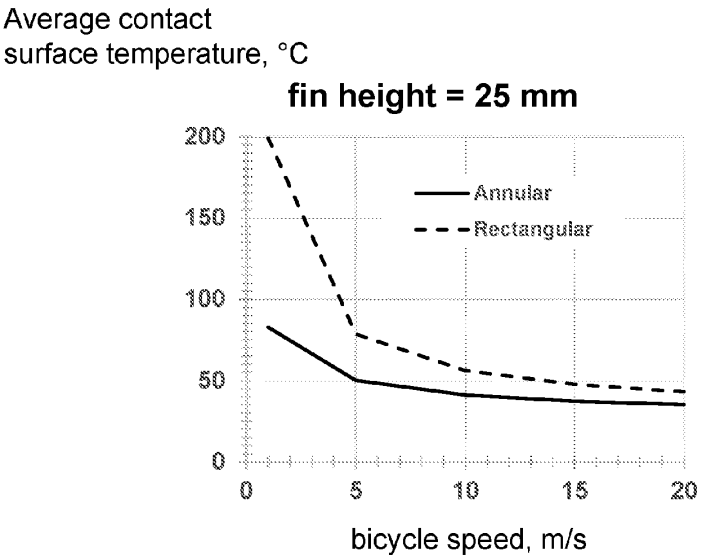

Average contact
surface temperature, °C
fin height = 25 mm
200
150
100
50
0
0
5
10
15
20
Annular
Rectangular
bicycle speed, m/s

FIG. 11

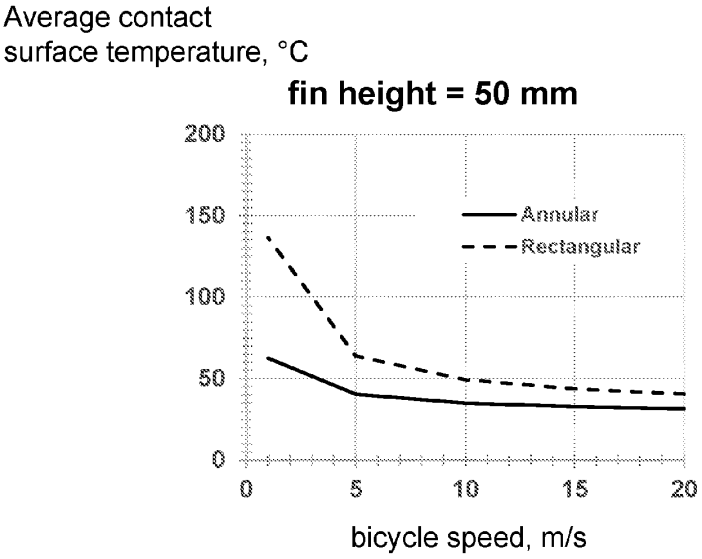

Average contact
surface temperature, °C
fin height = 50 mm
200
150
100
50
0
0
5
10
15
20
Annular
Rectangular
bicycle speed, m/s

FIG. 12

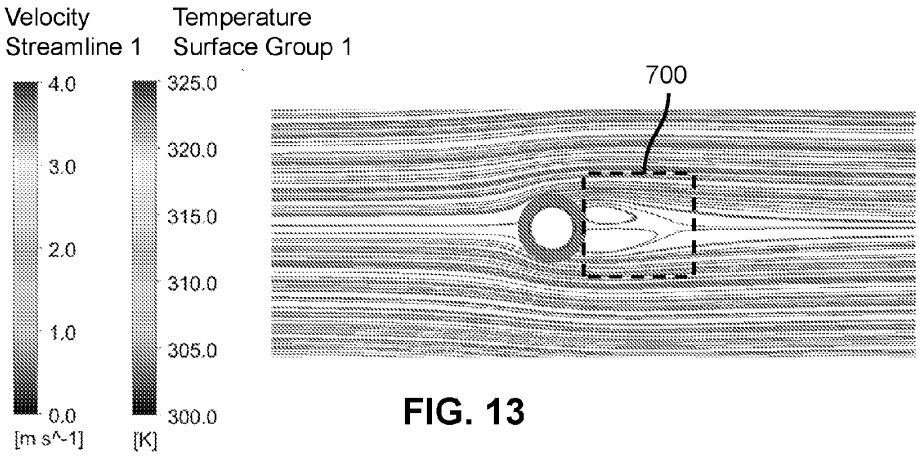


FIG. 13

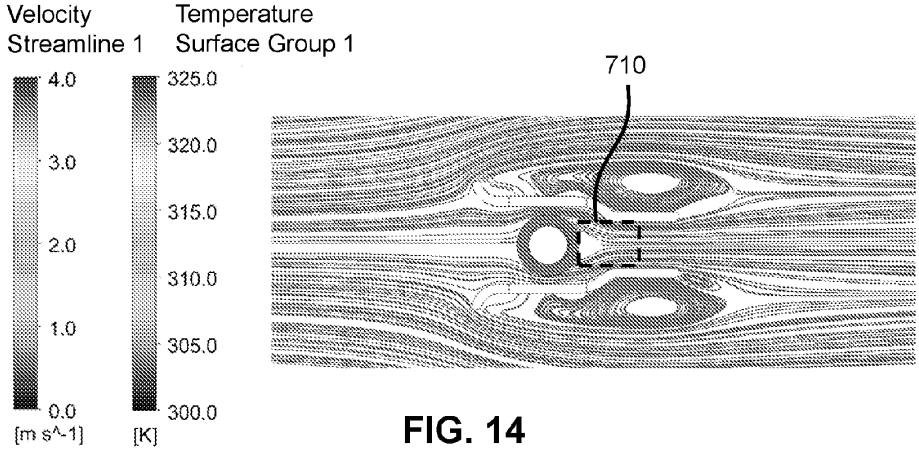


FIG. 14

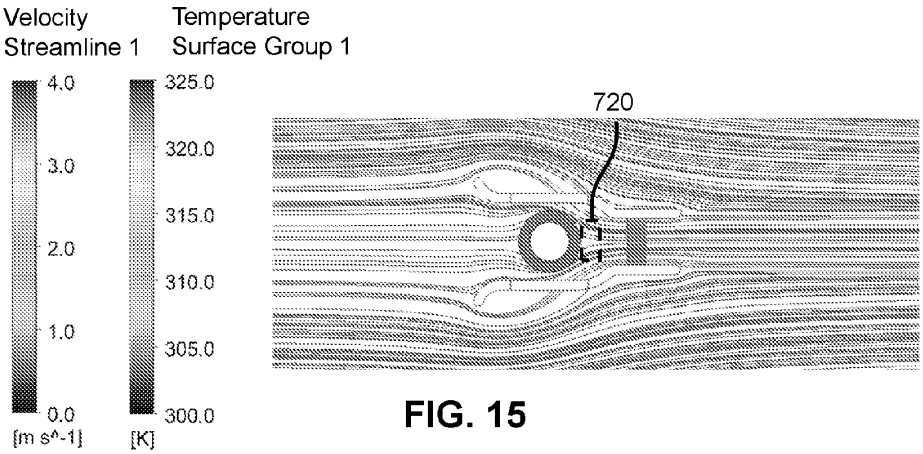


FIG. 15