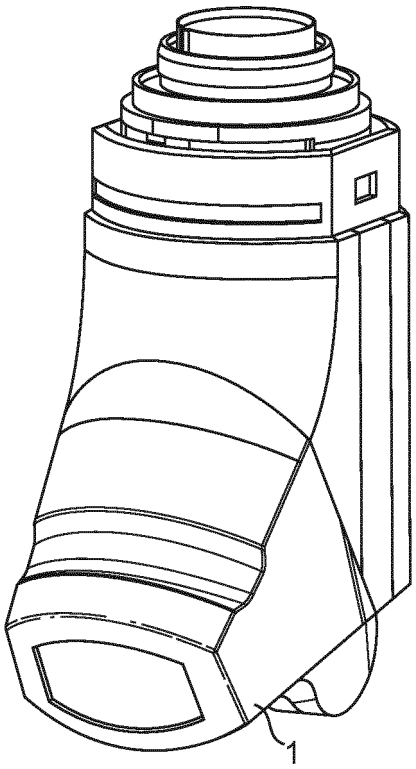


FIG. 1

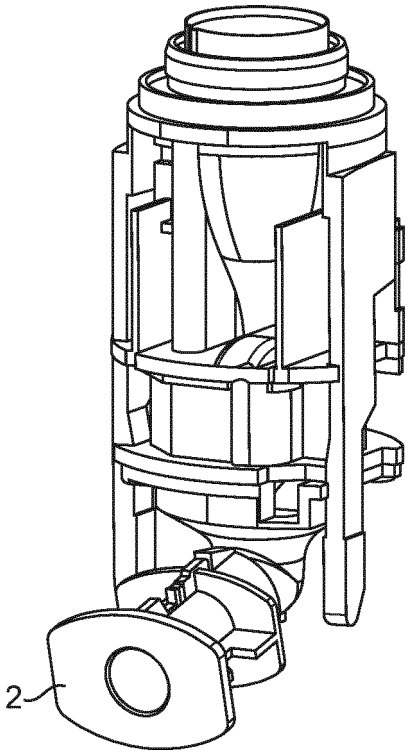


FIG. 2

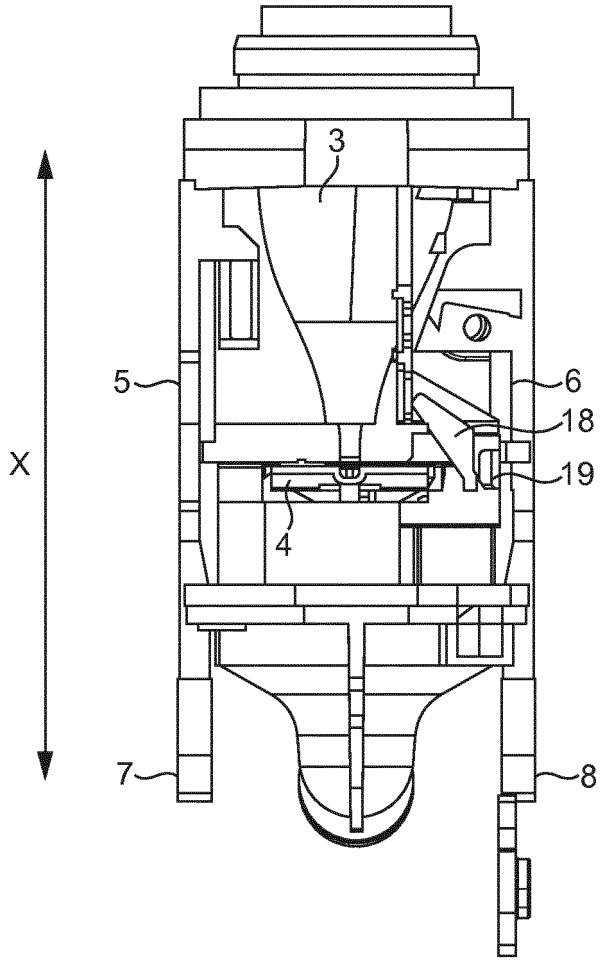


FIG. 3

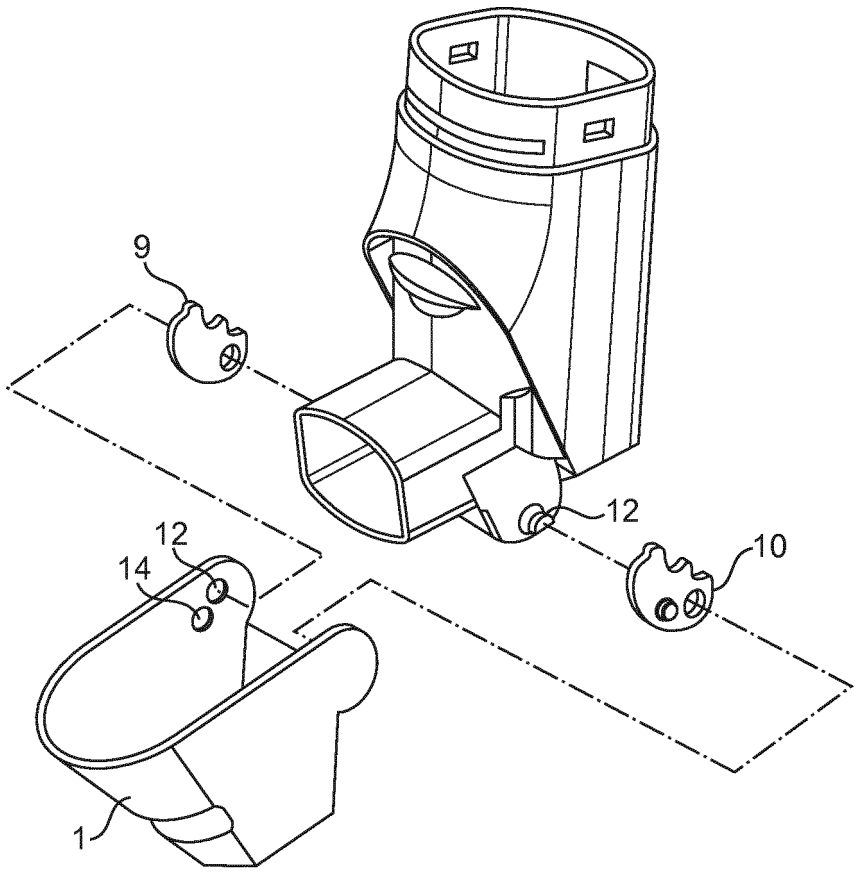


FIG. 4

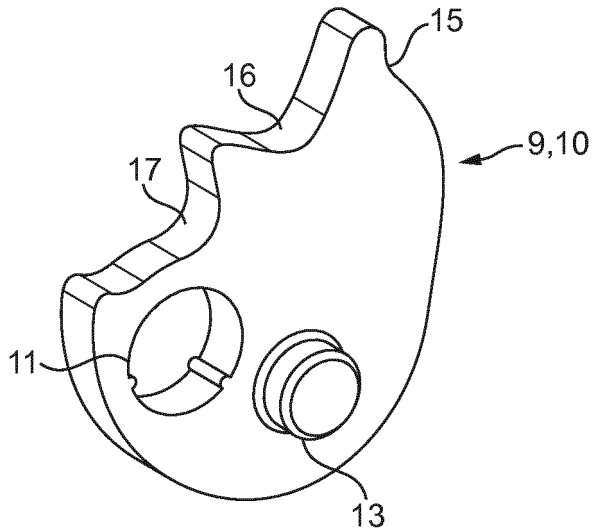


FIG. 5

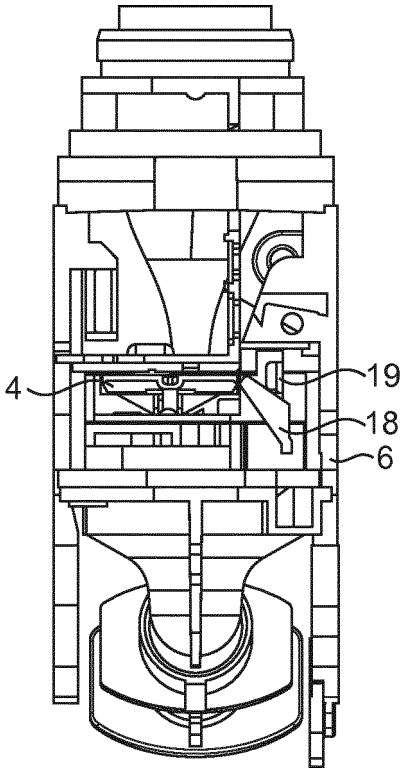


FIG. 6

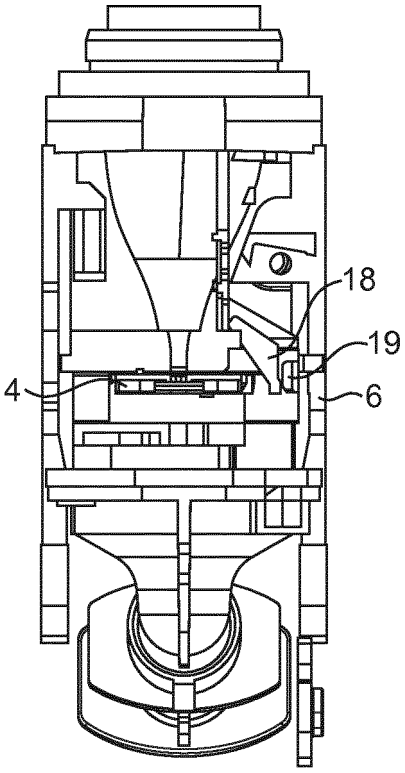


FIG. 8

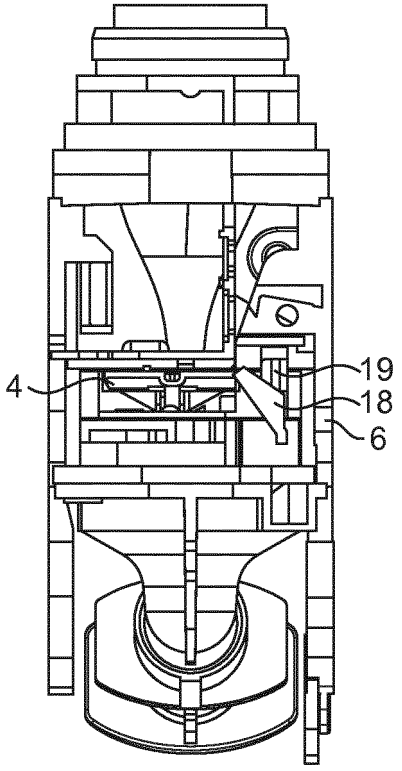
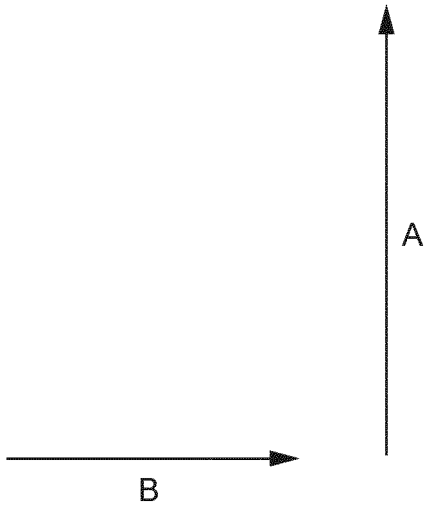


FIG. 7



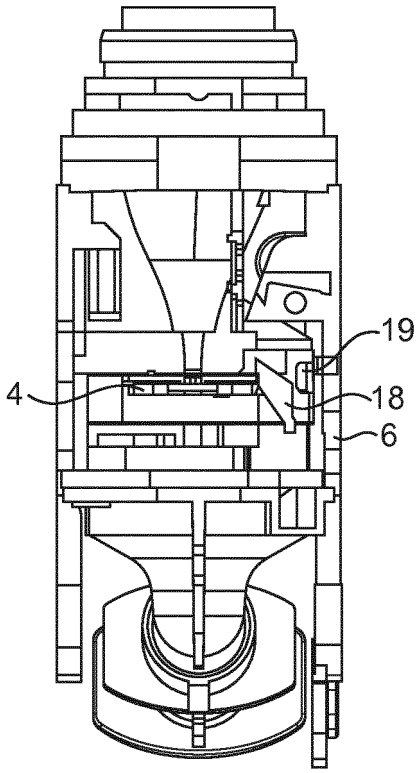


FIG. 9

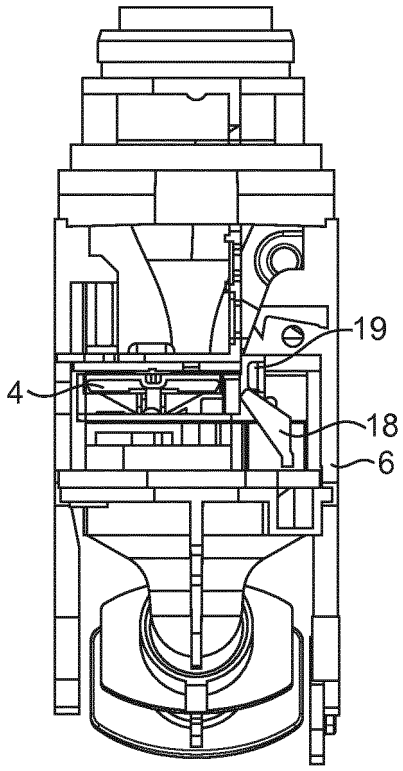


FIG. 11

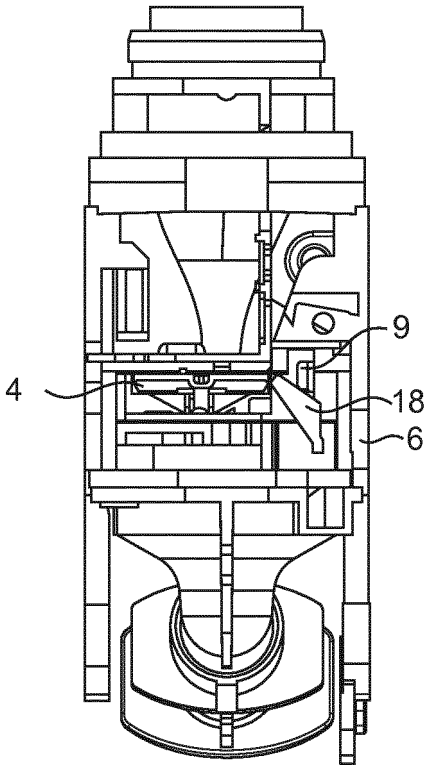
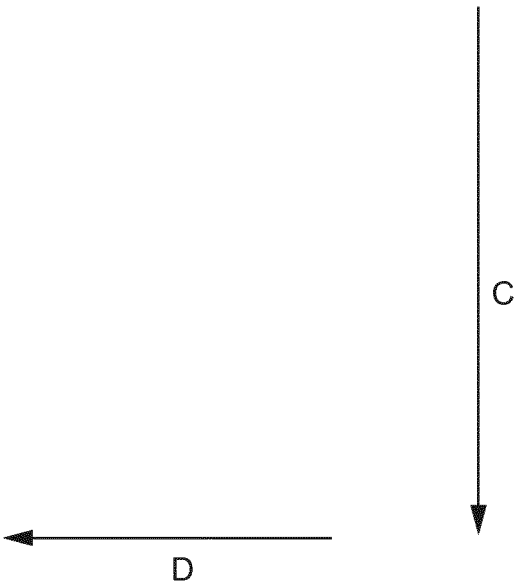


FIG. 10



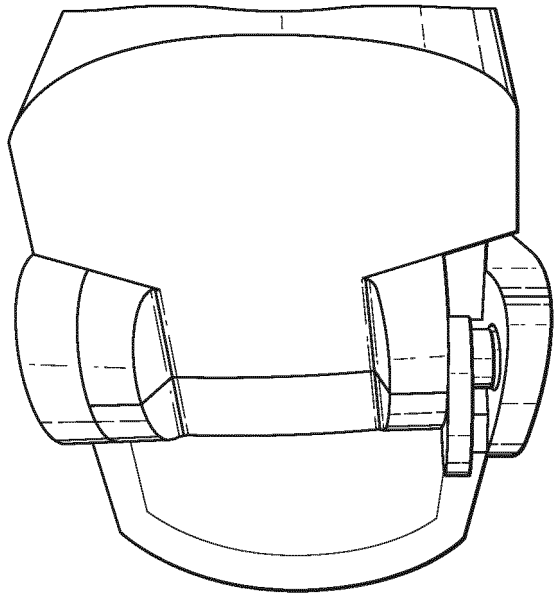


FIG. 12

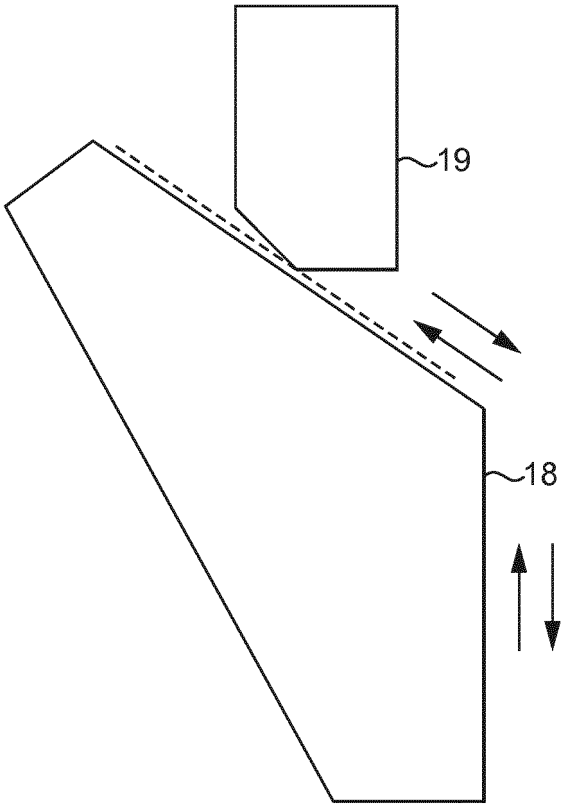


FIG. 13

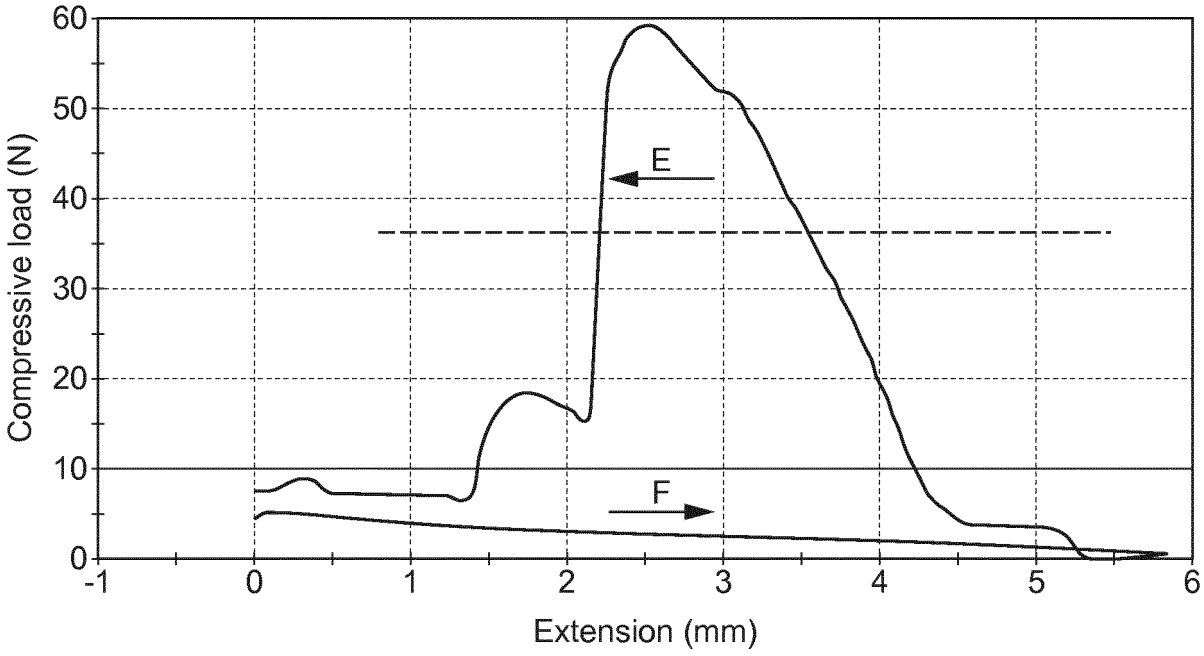

60
50
40
30
20
10
0
Compressive load (N)
E
F
-1
0
1
2
3
4
5
6
Extension (mm)

FIG. 14

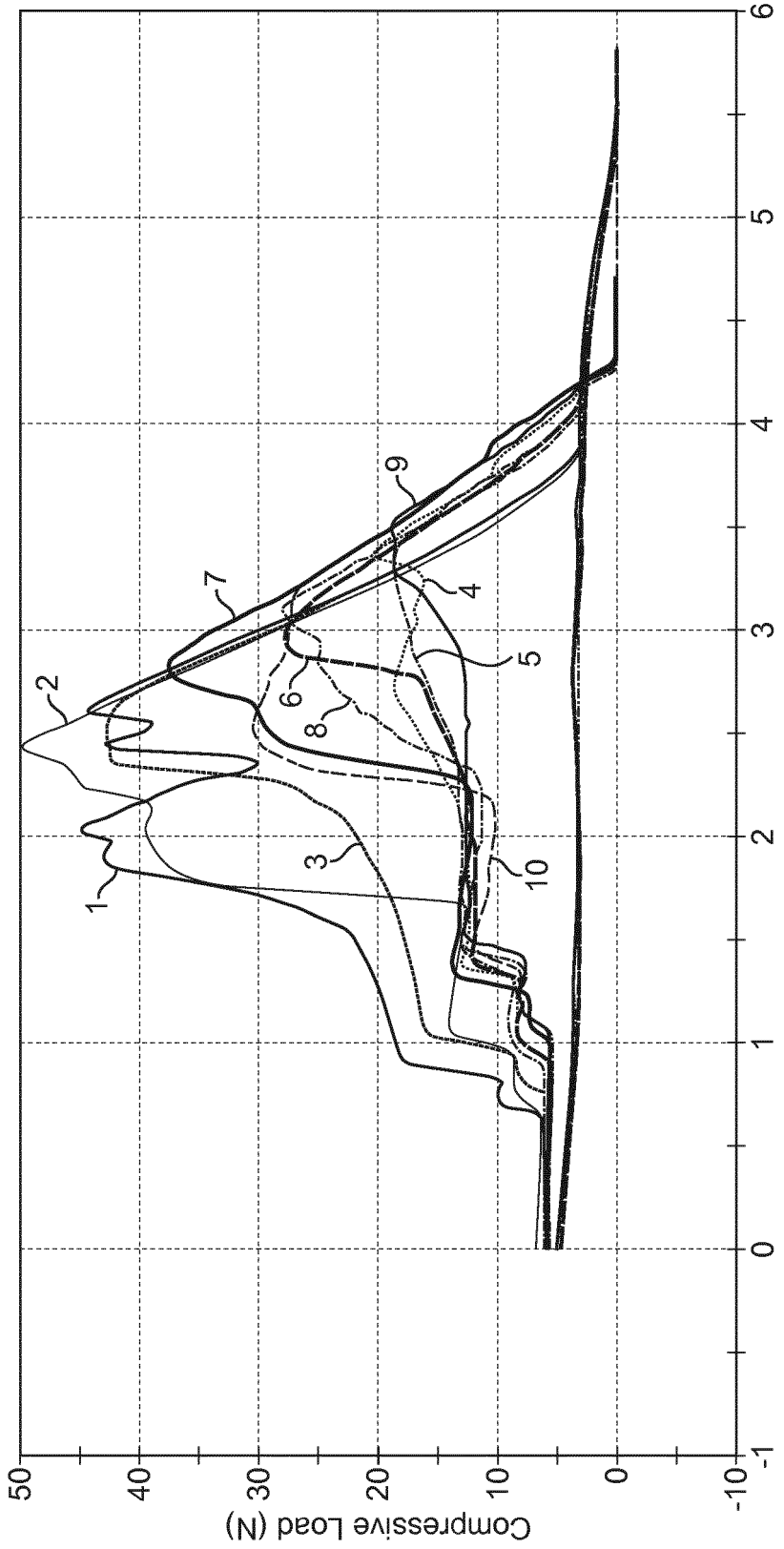

Compressive Load (N)
50
40
30
20
10
0
-10
-1
0
1
2
3
4
5
6
Extension (mm)
1
2
3
4
5
6
7
8
9
10

FIG. 15

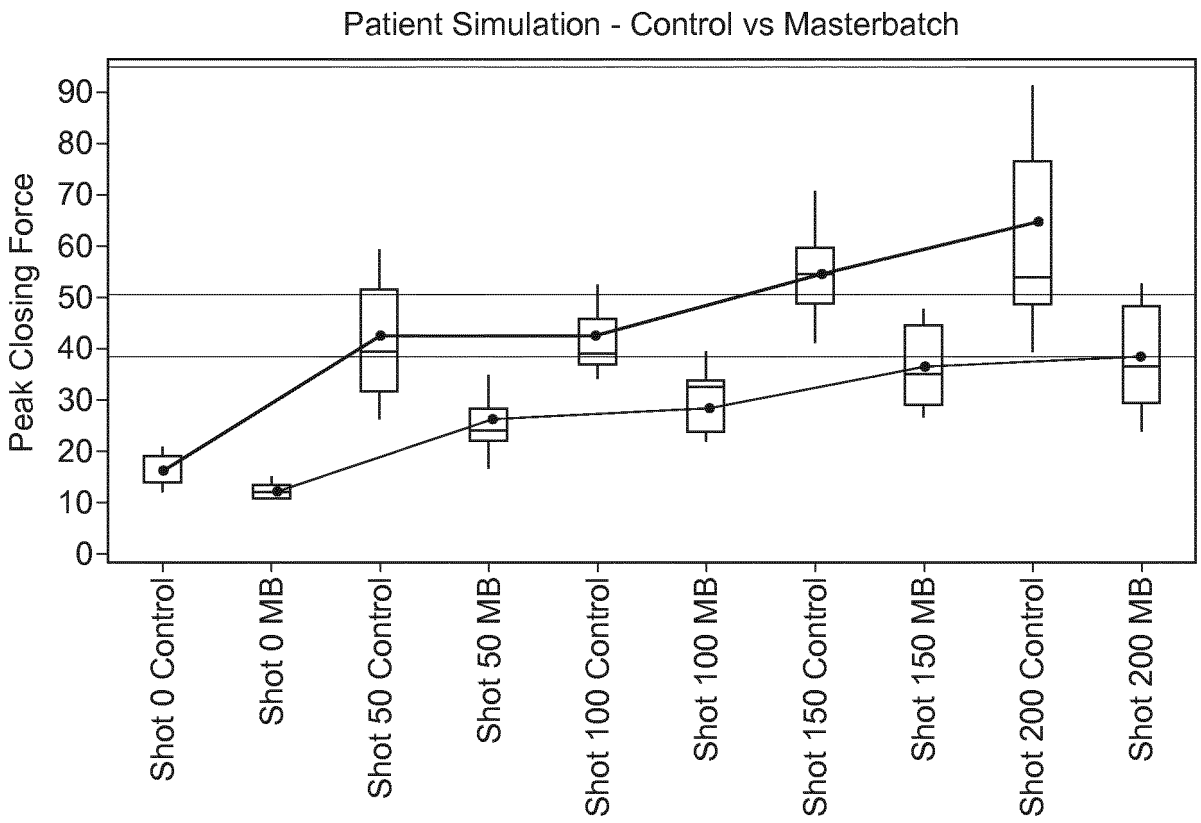

Patient Simulation - Control vs Masterbatch
Peak Closing Force
0
10
20
30
40
50
60
70
80
90
Shot 0 Control
Shot 0 MB
Shot 50 Control
Shot 50 MB
Shot 100 Control
Shot 100 MB
Shot 150 Control
Shot 150 MB
Shot 200 Control
Shot 200 MB

FIG. 16

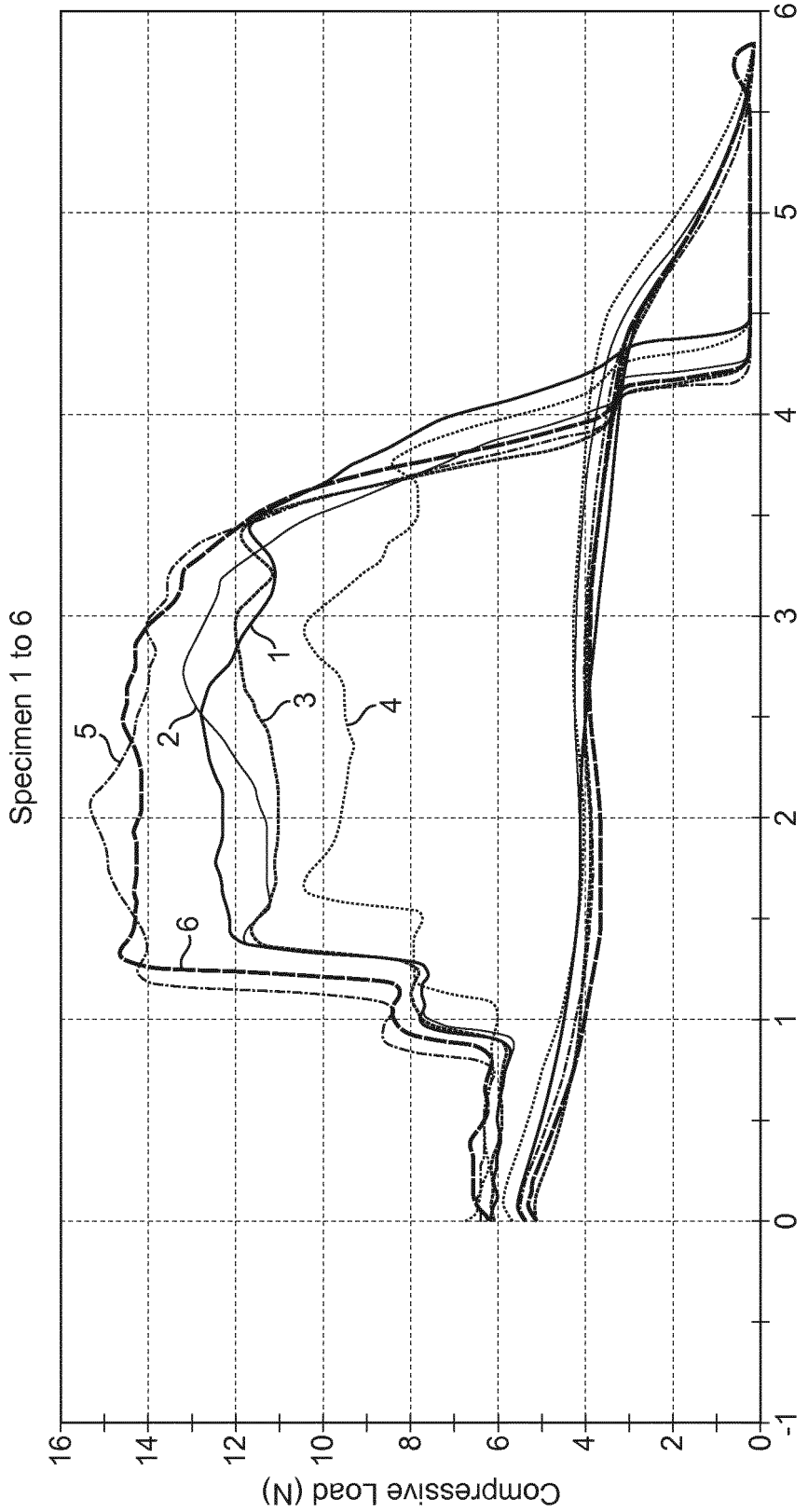

Compressive Load (N)
16
14
12
10
8
6
4
2
0
-1
0
1
2
3
4
5
6
Extension (mm)
Specimen 1 to 6
1
2
3
4
5
6

FIG. 17

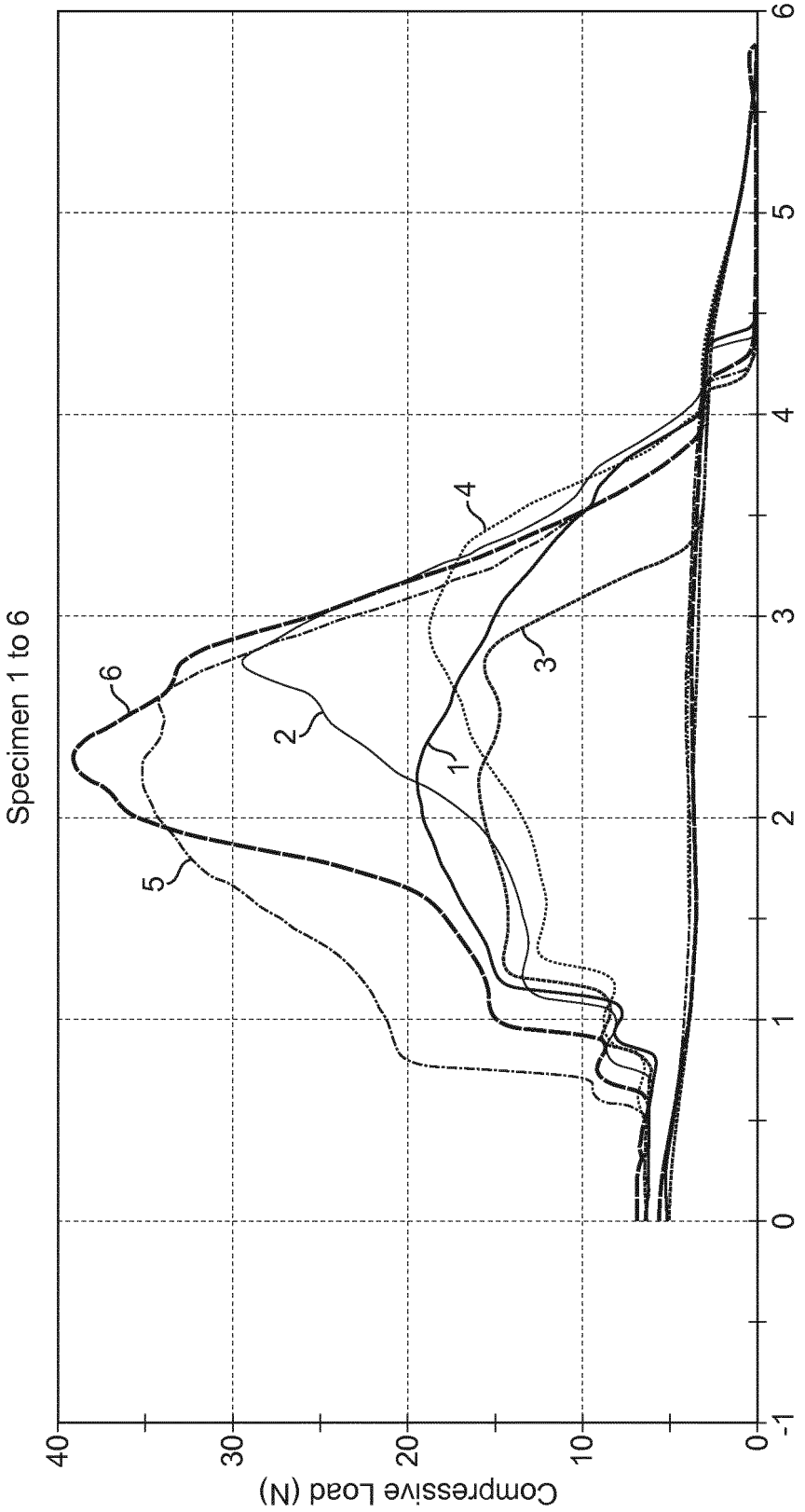

Specimen 1 to 6
Compressive Load (N)
Extension (mm)
0
10
20
30
40
-1
0
1
2
3
4
5
6
1
2
3
4
5
6

FIG. 18

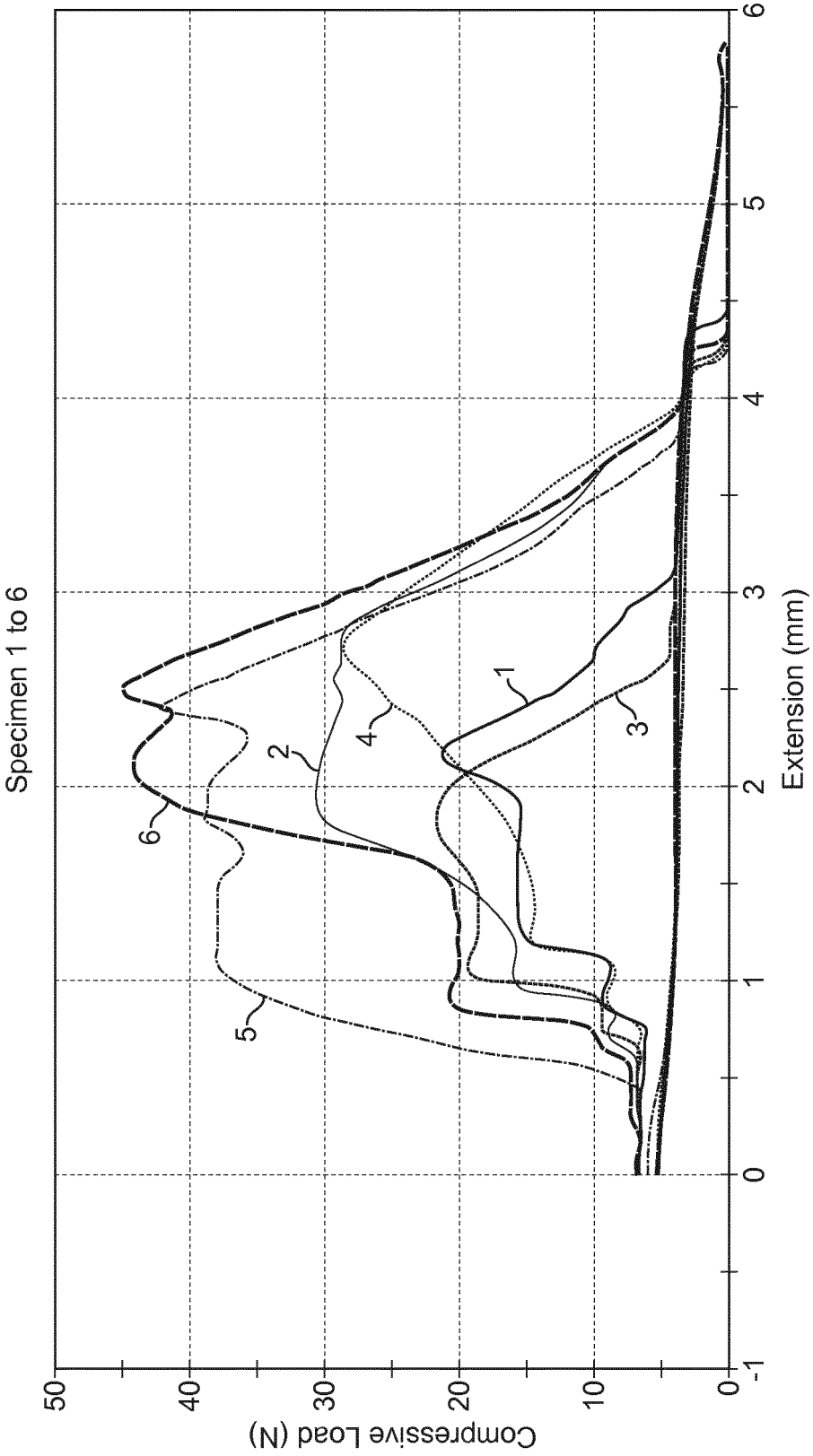

Specimen 1 to 6
Compressive Load (N)
Extension (mm)
50
40
30
20
10
0
-1
0
1
2
3
4
5
6
1
2
3
4
5
6

FIG. 19