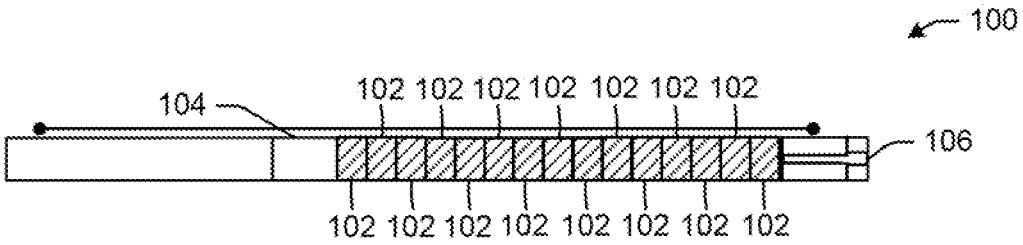

PRIOR ART

FIG. 1

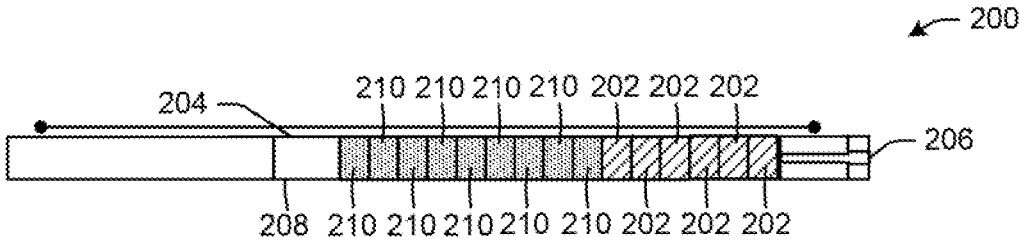

FIG. 2

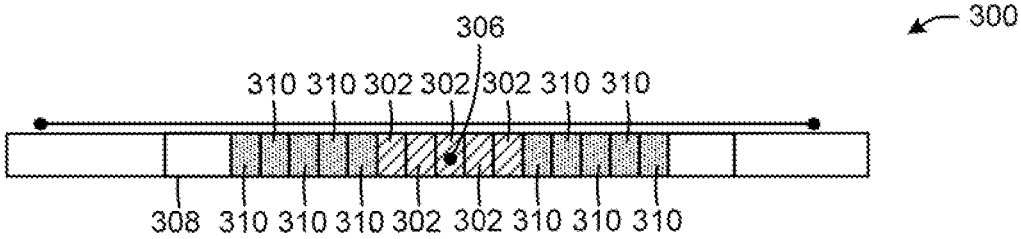

FIG. 3

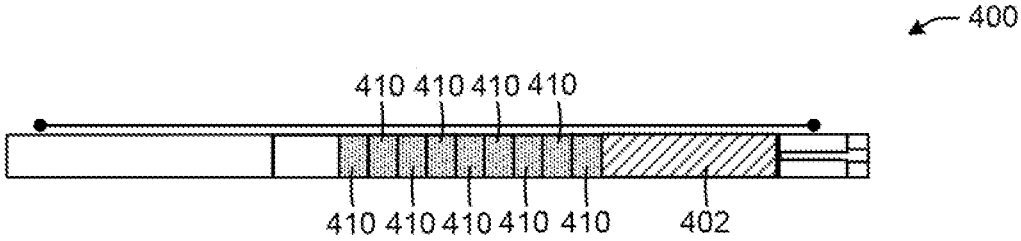

FIG. 4

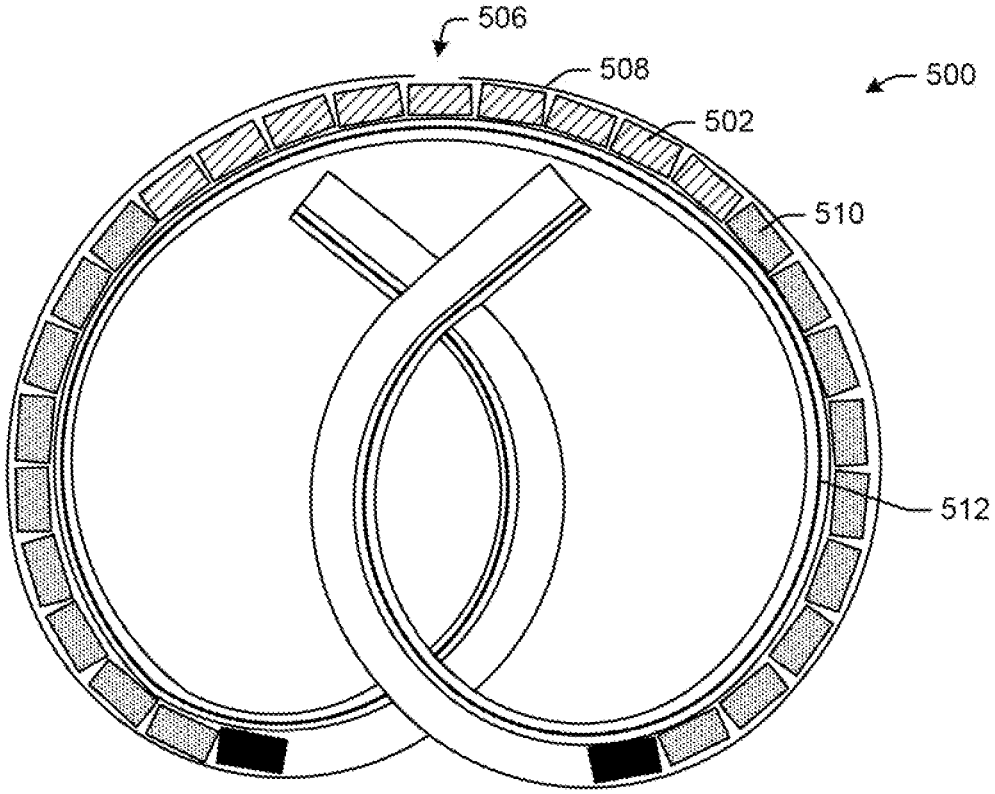

FIG. 5

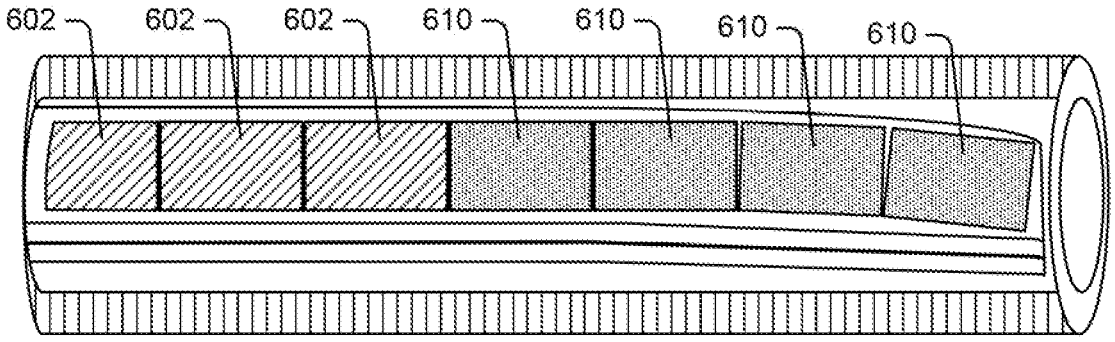

FIG. 6

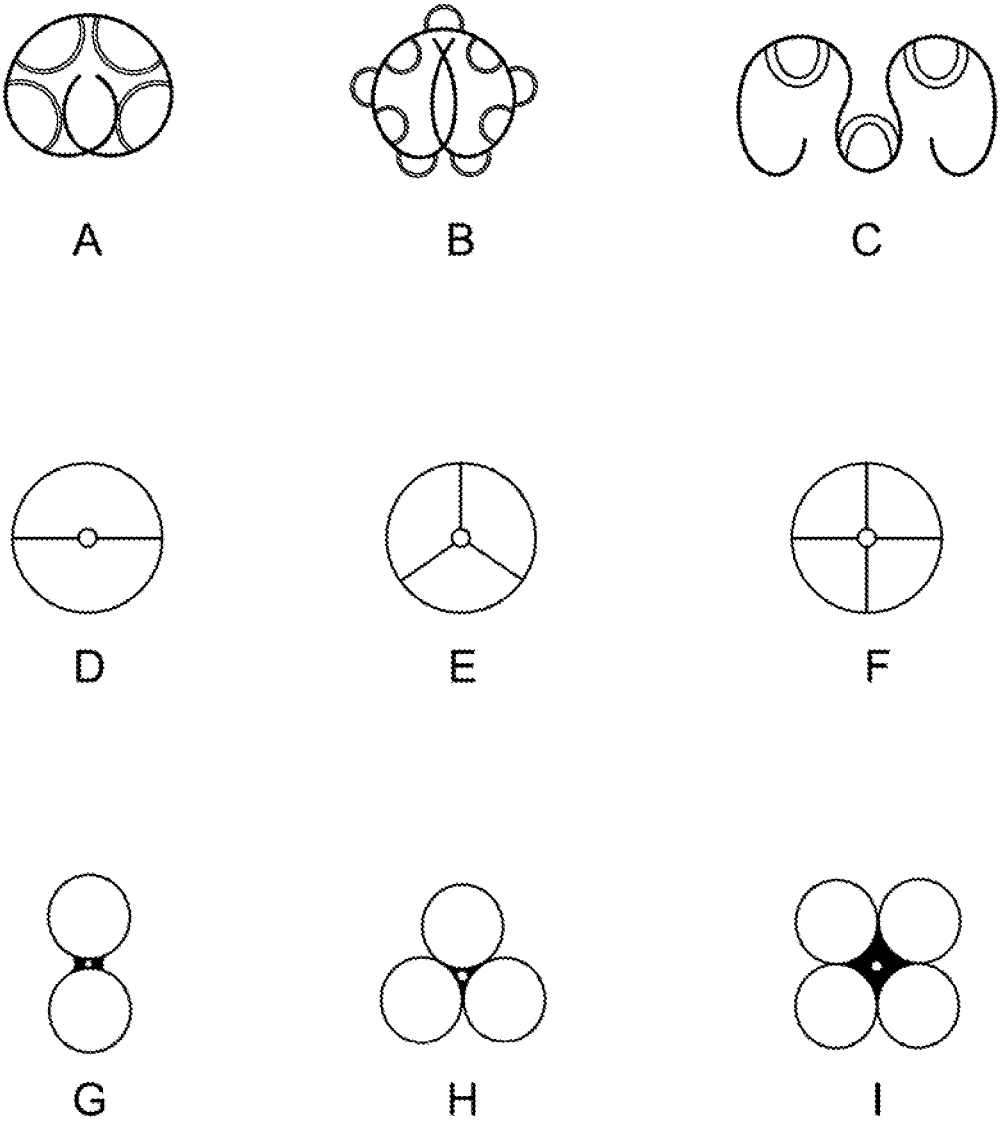

FIG. 7

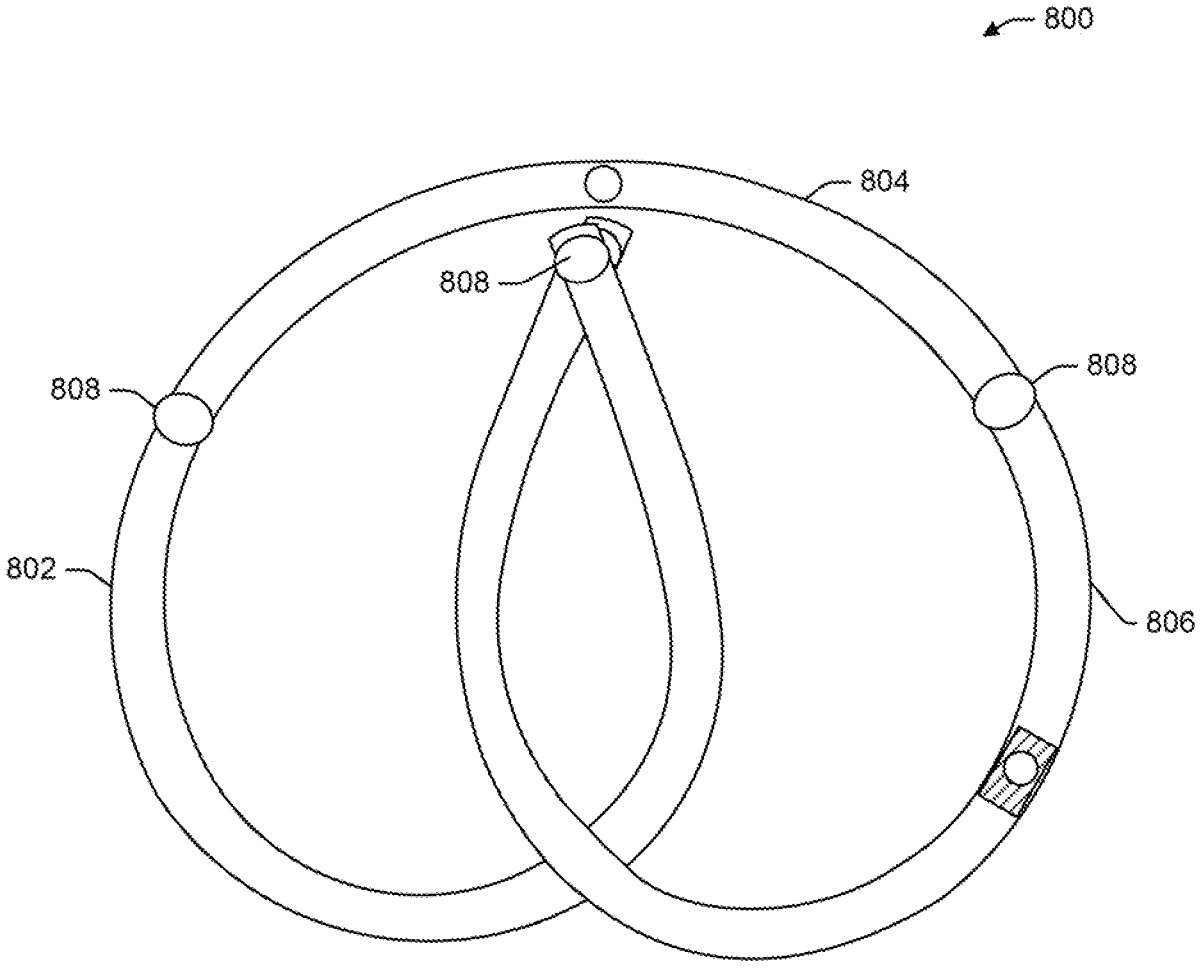

FIG. 8

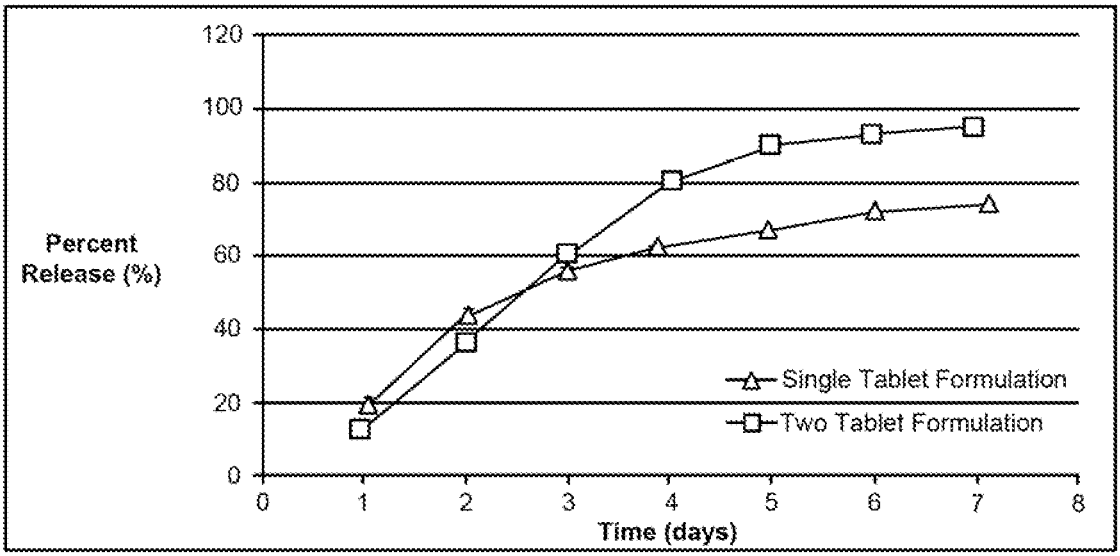
Percent Release (%)
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
Time (days)
Single Tablet Formulation
Two Tablet Formulation

FIG. 9

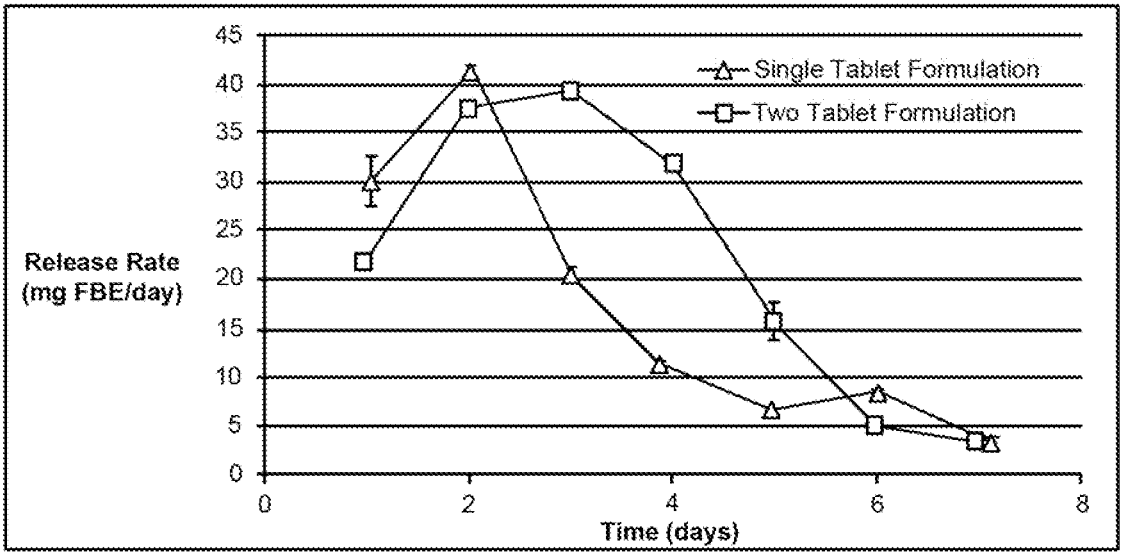
Release Rate (mg FBE/day)
45
40
35
30
25
20
15
10
5
0
0
2
4
6
8
Time (days)
Single Tablet Formulation
Two Tablet Formulation

FIG. 10

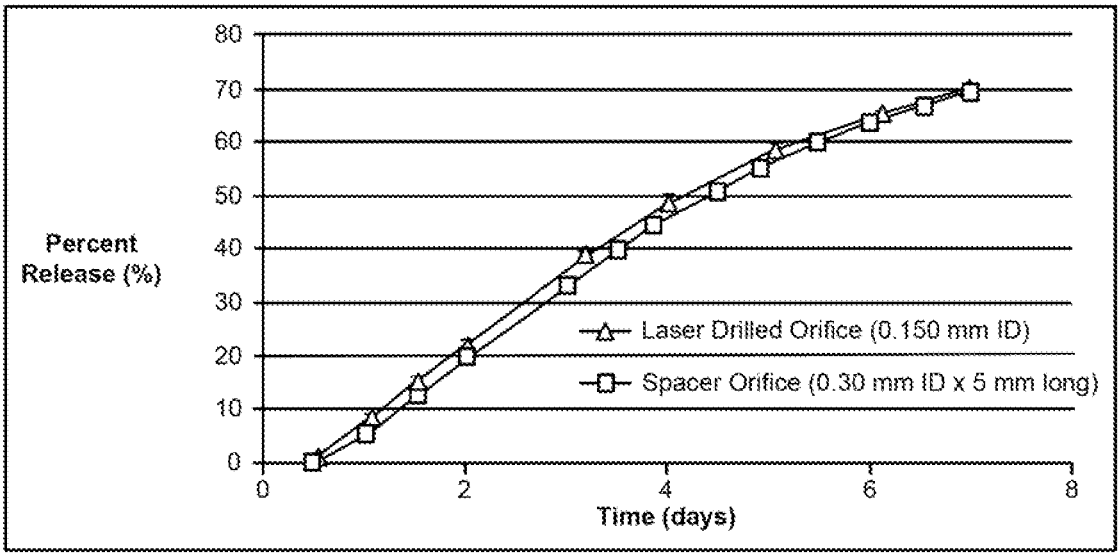
Percent Release (%)
80
70
60
50
40
30
20
10
0
0
2
4
6
8
Time (days)
Laser Drilled Orifice (0.150 mm ID)
Spacer Orifice (0.30 mm ID x 5 mm long)

FIG. 11

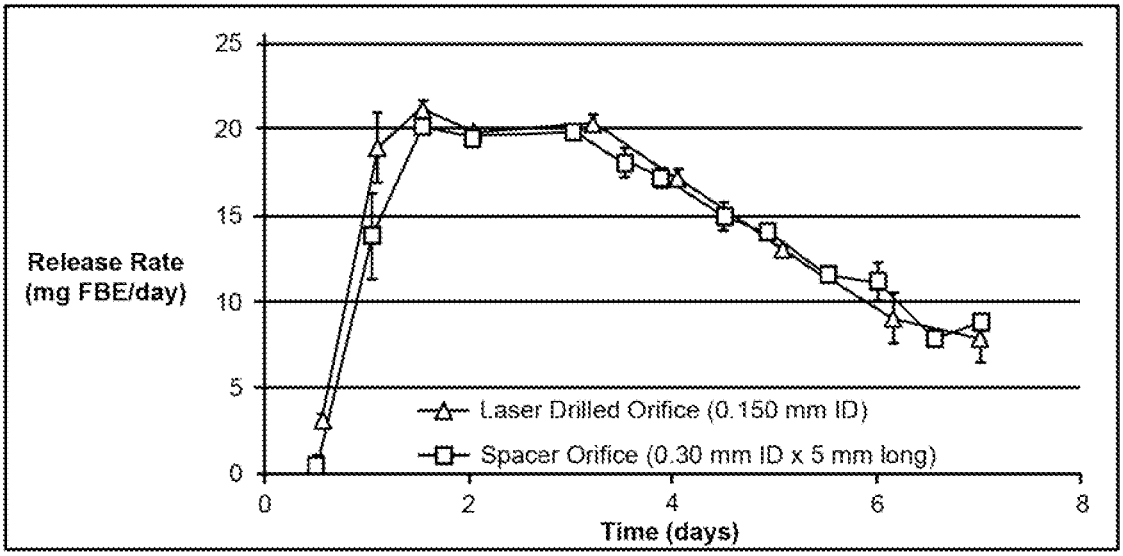
Release Rate (mg FBE/day)
25
20
15
10
5
0
0
2
4
6
8
Time (days)
Laser Drilled Orifice (0.150 mm ID)
Spacer Orifice (0.30 mm ID x 5 mm long)

FIG. 12

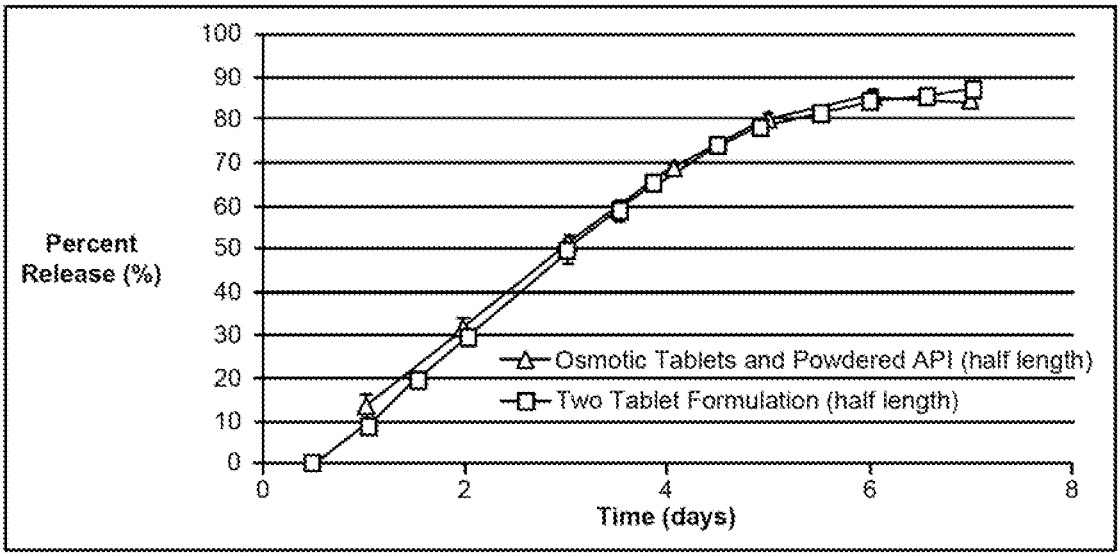
Percent Release (%)
100
90
80
70
60
50
40
30
20
10
0
0
2
4
6
8
Time (days)
Osmotic Tablets and Powdered API (half length)
Two Tablet Formulation (half length)

FIG. 13

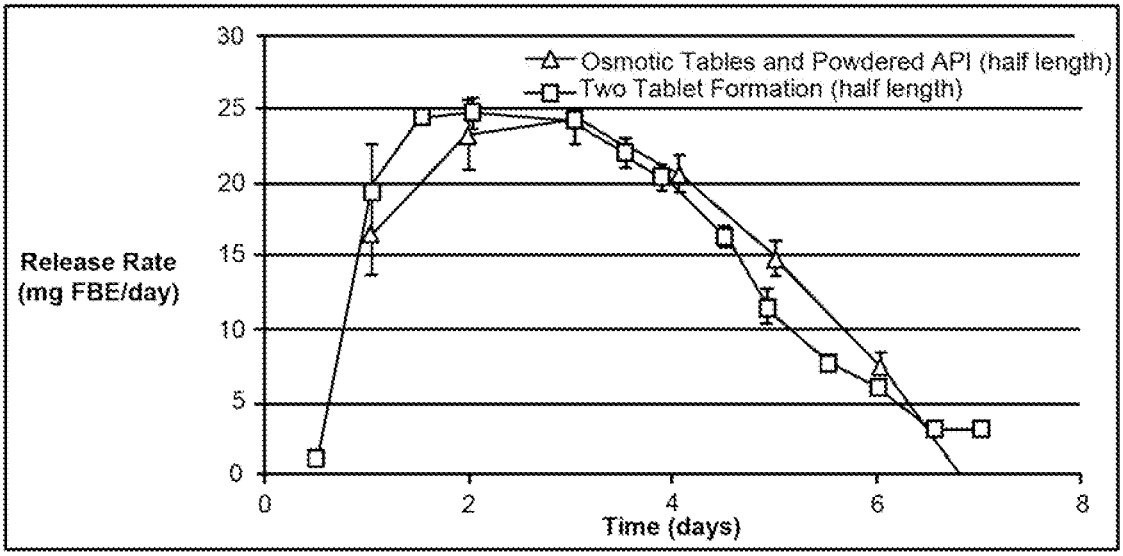
Release Rate (mg FBE/day)
30
25
20
15
10
5
0
0
2
4
6
8
Time (days)
Osmotic Tables and Powdered API (half length)
Two Tablet Formation (half length)

FIG. 14

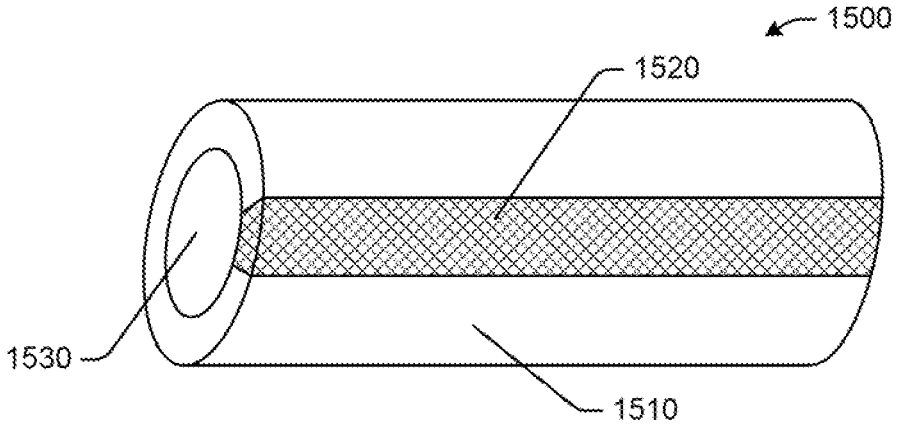

FIG. 15A

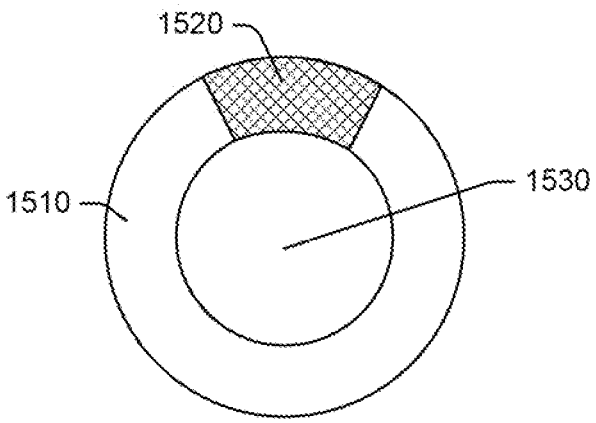

FIG. 15B

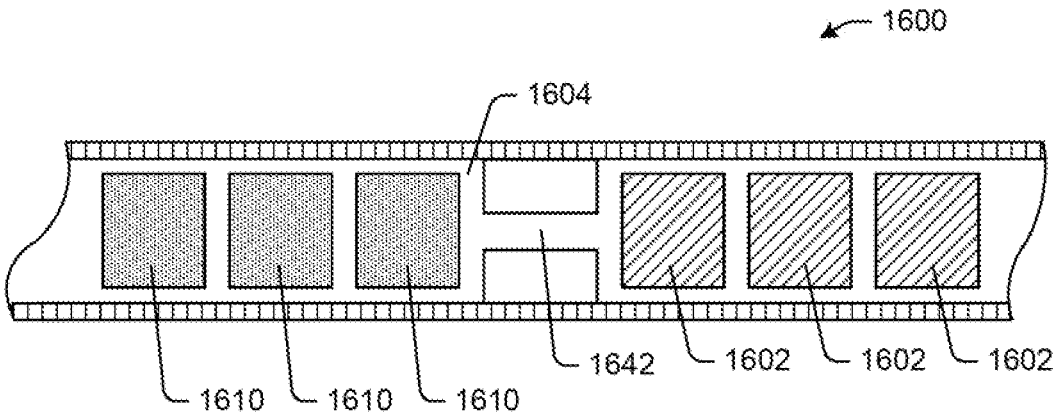

FIG. 16

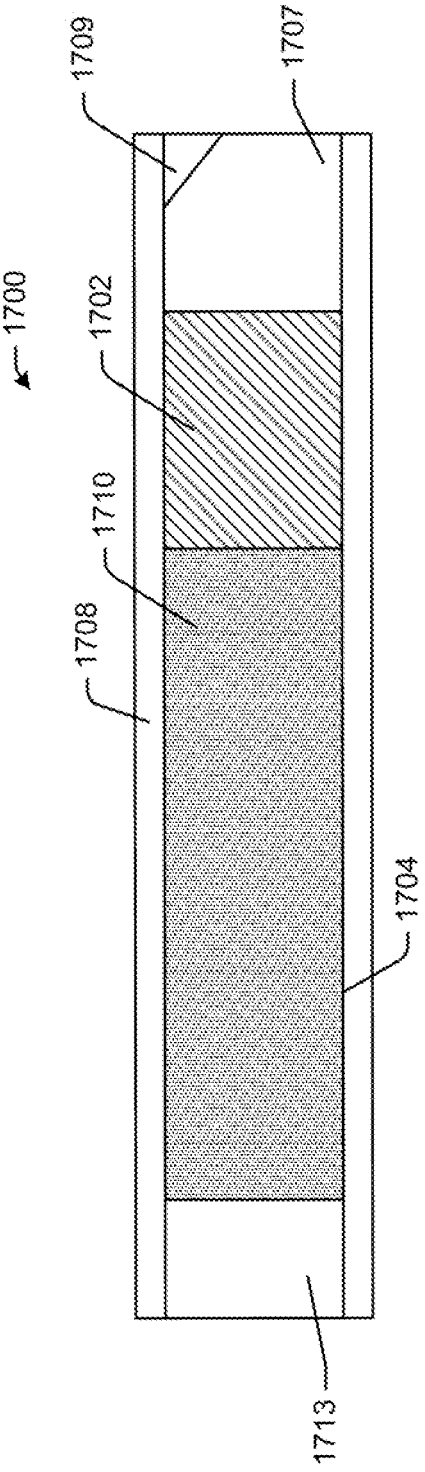
1700
1709
1707
1702
1710
1708
1704
1713

FIG. 17

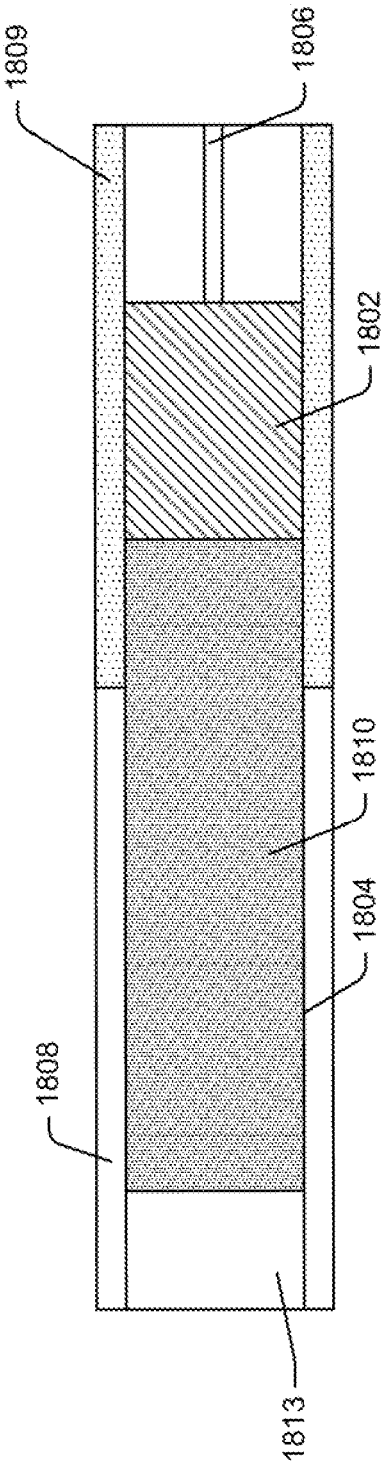
1809
1806
1802
1810
1804
1808
1813

FIG. 18

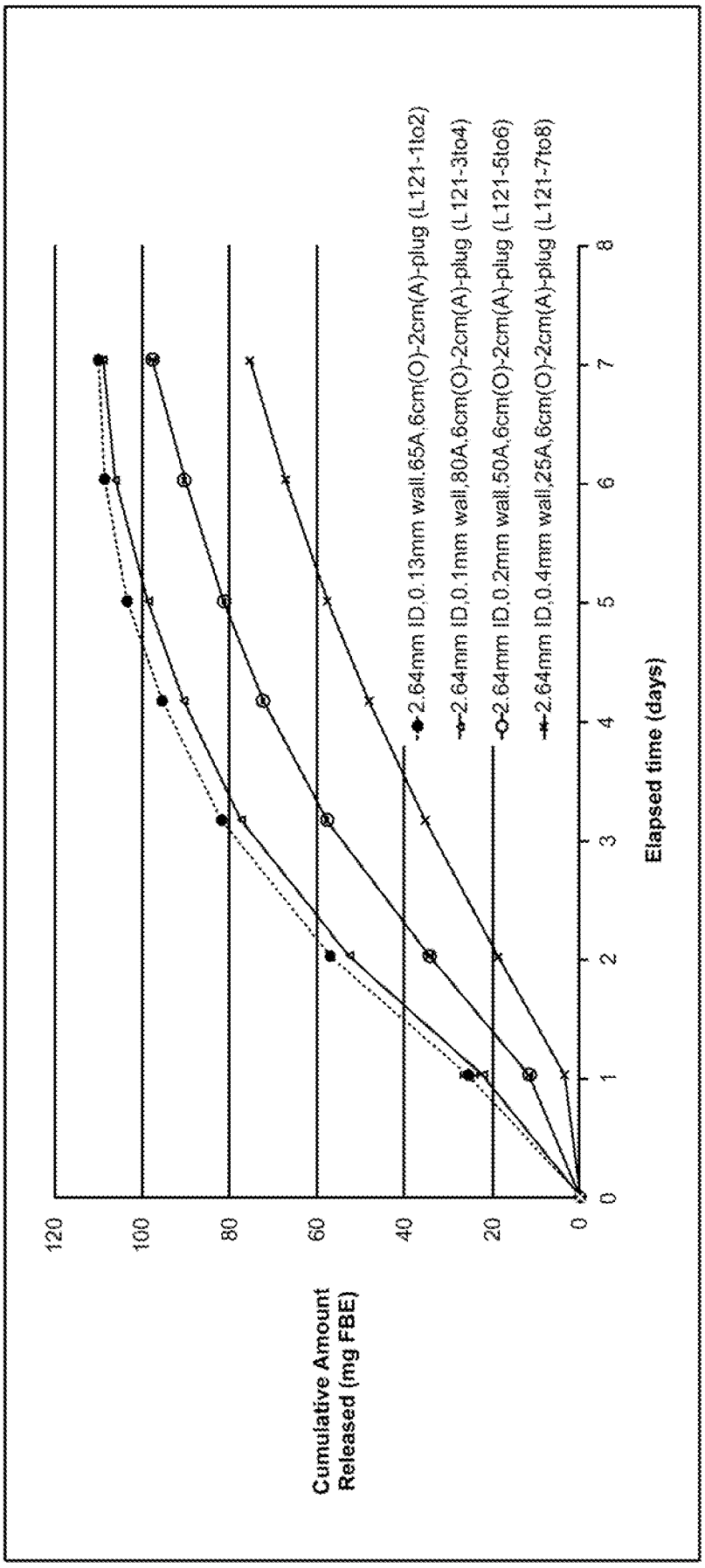
Cumulative Amount Released (mg FBE)
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
Elapsed time (days)
2.64mm ID,0.13mm wall,65A,6cm(O)-2cm(A)-plug (L121-1to2)
2.64mm ID,0.1mm wall,80A,6cm(O)-2cm(A)-plug (L121-3to4)
2.64mm ID,0.2mm wall,50A,6cm(O)-2cm(A)-plug (L121-5to6)
2.64mm ID,0.4mm wall,25A,6cm(O)-2cm(A)-plug (L121-7to8)

FIG. 19

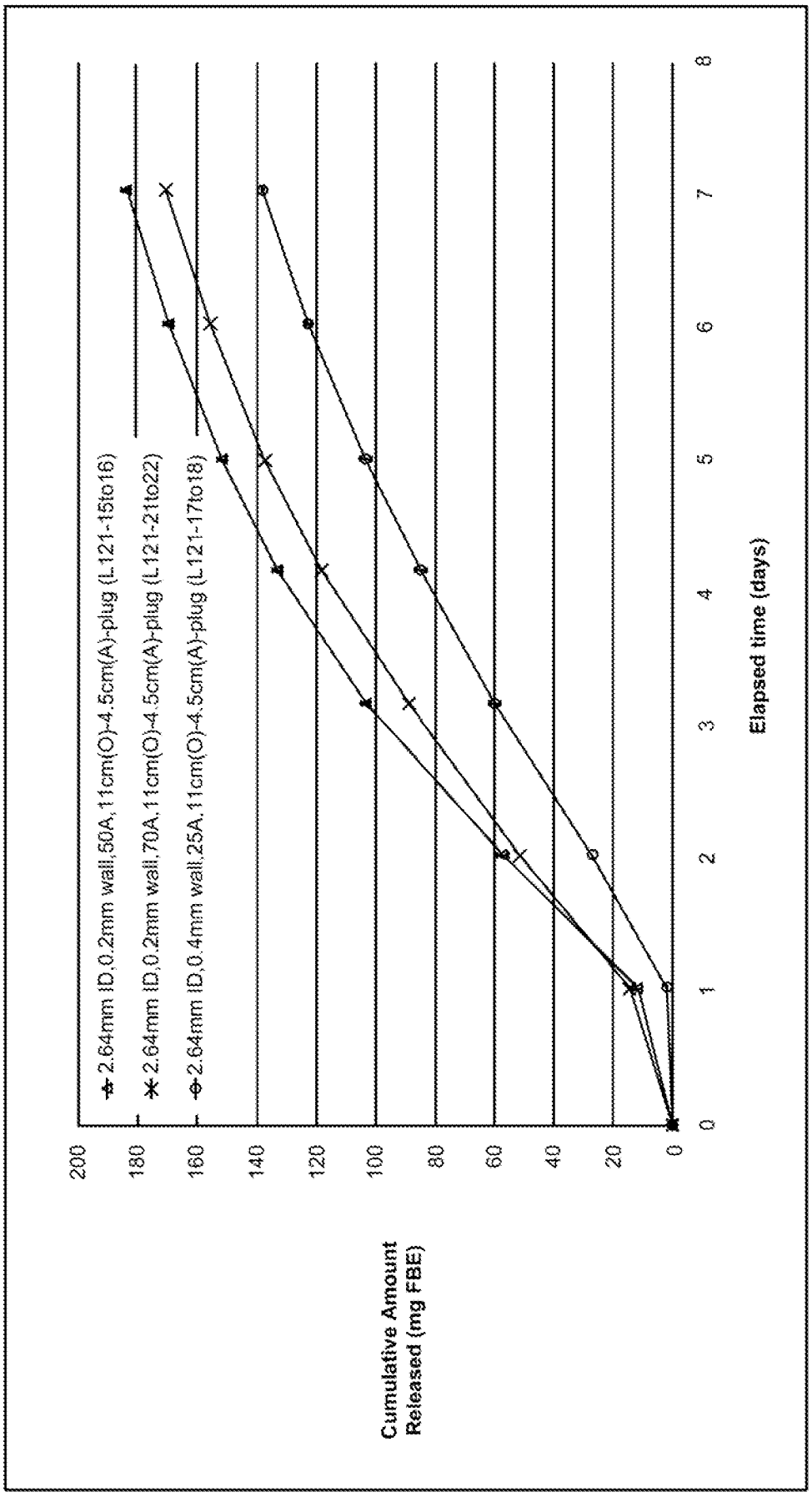
2.64mm ID,0.2mm wall,50A,11cm(O)-4.5cm(A)-plug (L121-15to16)
2.64mm ID,0.2mm wall,70A,11cm(O)-4.5cm(A)-plug (L121-21to22)
2.64mm ID,0.4mm wall,25A,11cm(O)-4.5cm(A)-plug (L121-17to18)
Cumulative Amount Released (mg FBE)
Elapsed time (days)
0
20
40
60
80
100
120
140
160
180
200
0
1
2
3
4
5
6
7
8

FIG. 20

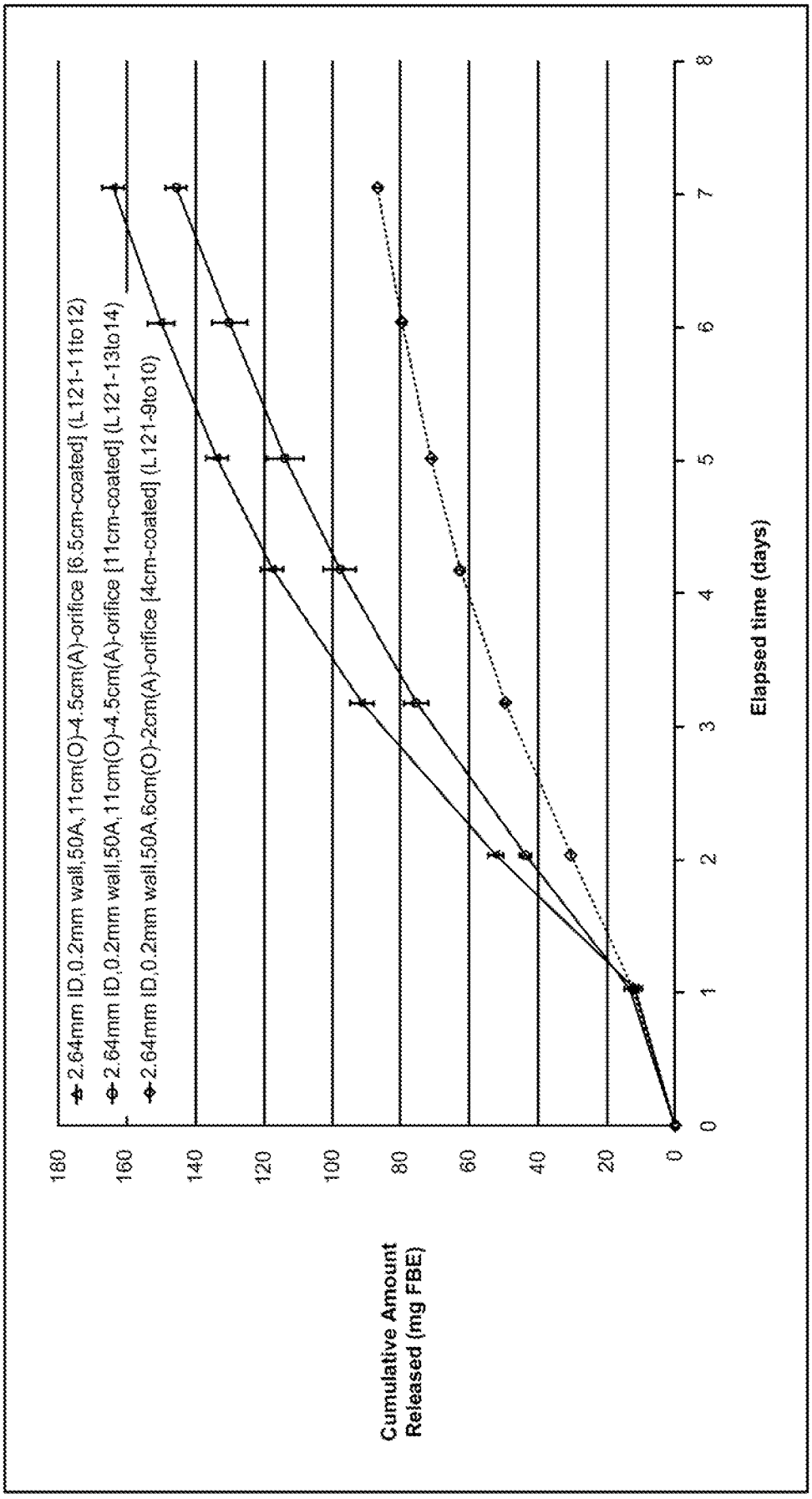
2.64mm ID,0.2mm wall,50A,11cm(O)-4.5cm(A)-orifice [6.5cm-coated] (L121-11to12)
2.64mm ID,0.2mm wall,50A,11cm(O)-4.5cm(A)-orifice [11cm-coated] (L121-13to14)
2.64mm ID,0.2mm wall,50A,6cm(O)-2cm(A)-orifice [4cm-coated] (L121-9to10)
Cumulative Amount Released (mg FBE)
Elapsed time (days)
0
20
40
60
80
100
120
140
160
180
0
1
2
3
4
5
6
7
8

FIG. 21