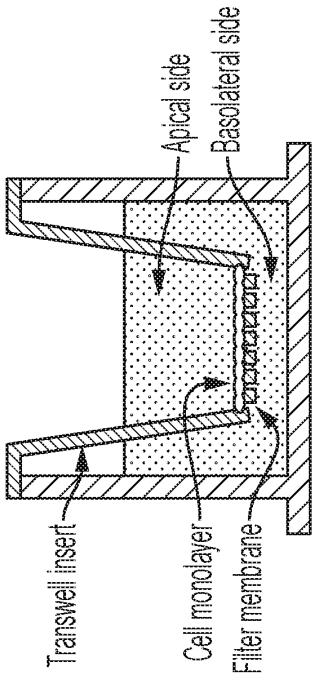

Apical side
Basolateral side
Transwell insert
Cell monolayer
Filter membrane

FIG. 1

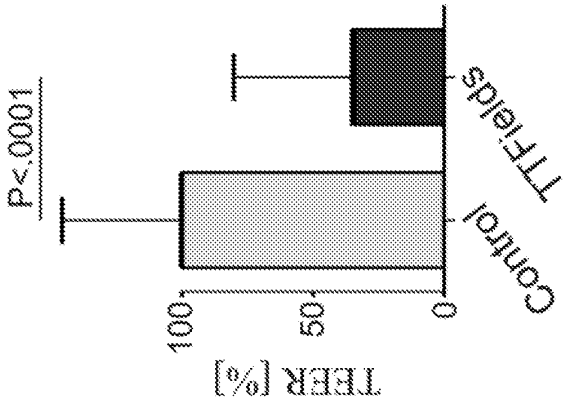

FITC-Dextran
(4 kDa) [%]
120
110
100
P=.0034
Control
TTFields

FIG. 2B

TEER [%]
100
50
0
P<.0001
Control
TTFields

FIG. 2A

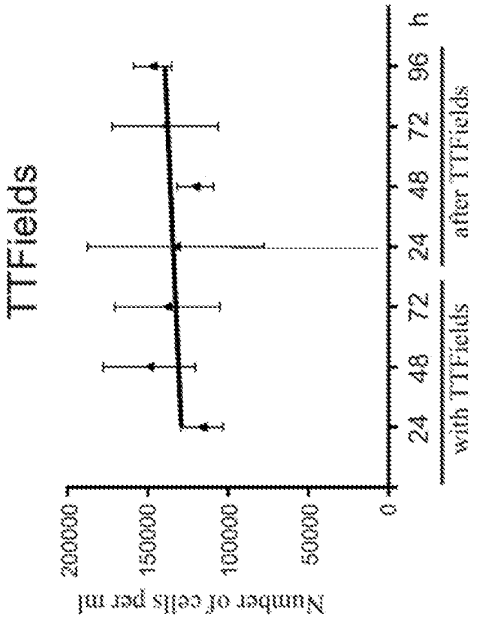

TTFields
Number of cells per ml
200000
150000
100000
50000
0
24
48
72
96
h
with TTFields
after TTFields

FIG. 3B

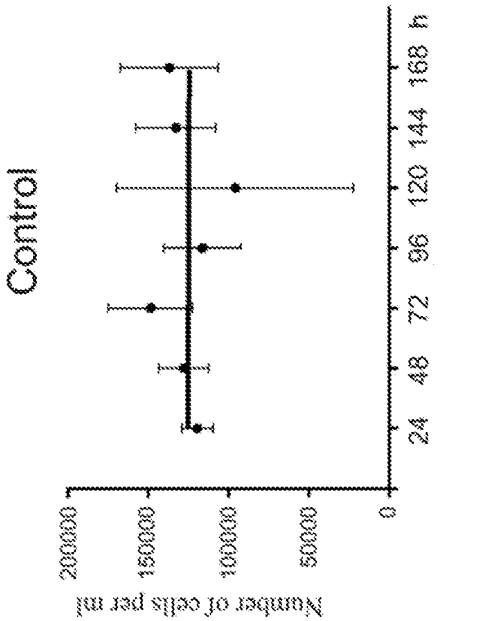

Control
Number of cells per ml
200000
150000
100000
50000
0
24
48
72
96
120
144
168
h

FIG. 3A

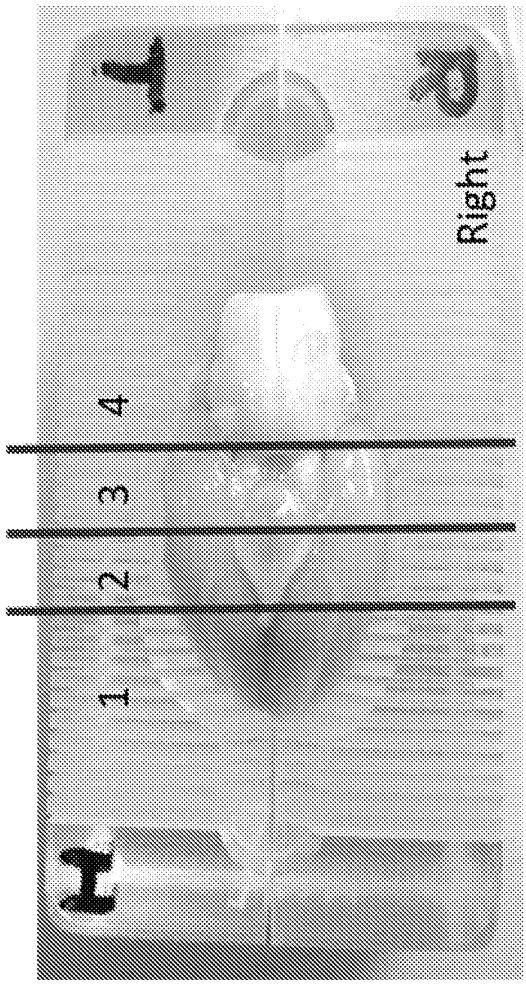


FIG. 4

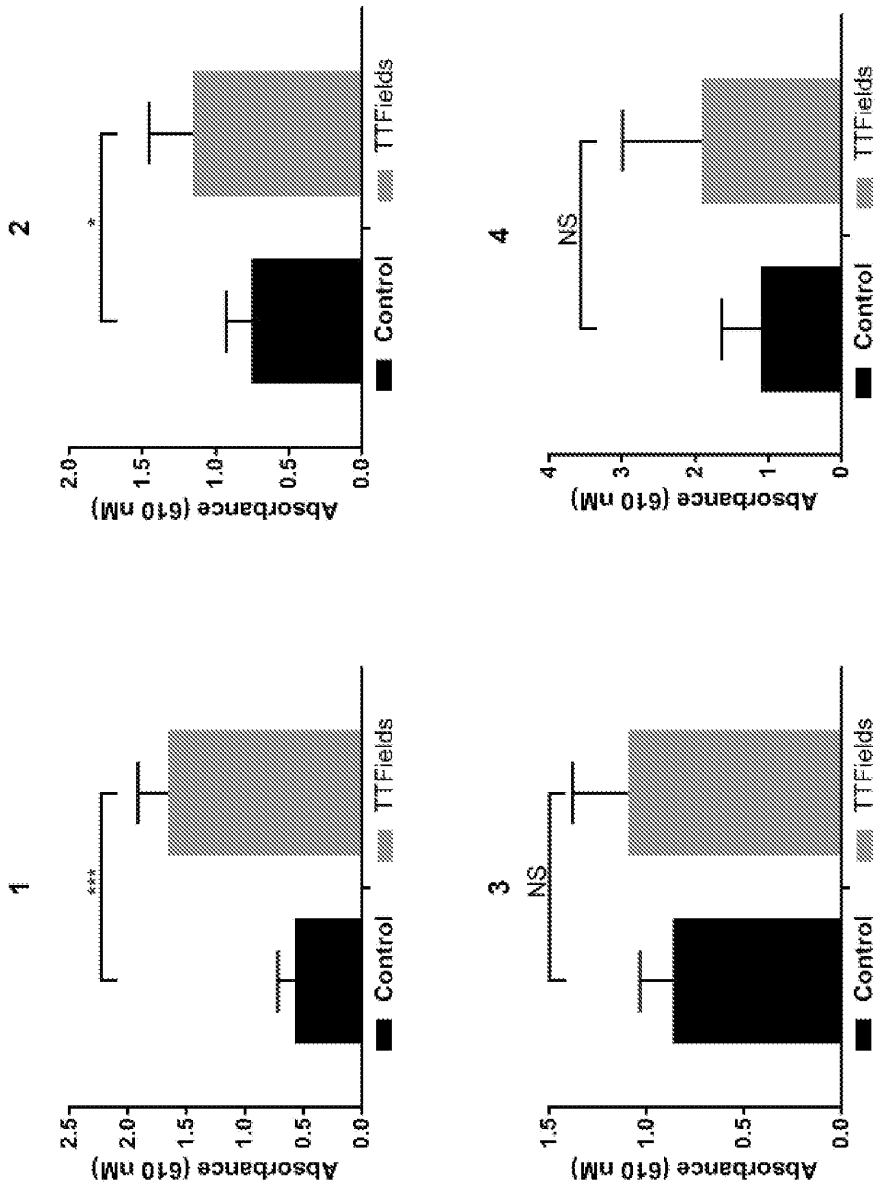

1
***
Absorbance (610 nM)
2.5
2.0
1.5
1.0
0.5
0.0
Control
TTFields
2
*
Absorbance (610 nM)
2.0
1.5
1.0
0.5
0.0
Control
TTFields
3
NS
Absorbance (610 nM)
1.5
1.0
0.5
0.0
Control
TTFields
4
NS
Absorbance (610 nM)
4
3
2
1
0
Control
TTFields

FIG. 5

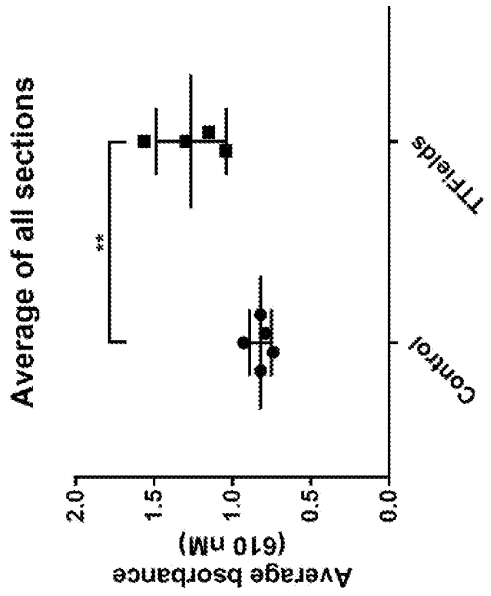

Average of all sections
**
Average bsorbance
(610 nM)
2.0
1.5
1.0
0.5
0.0
Control
TTFields

FIG. 6

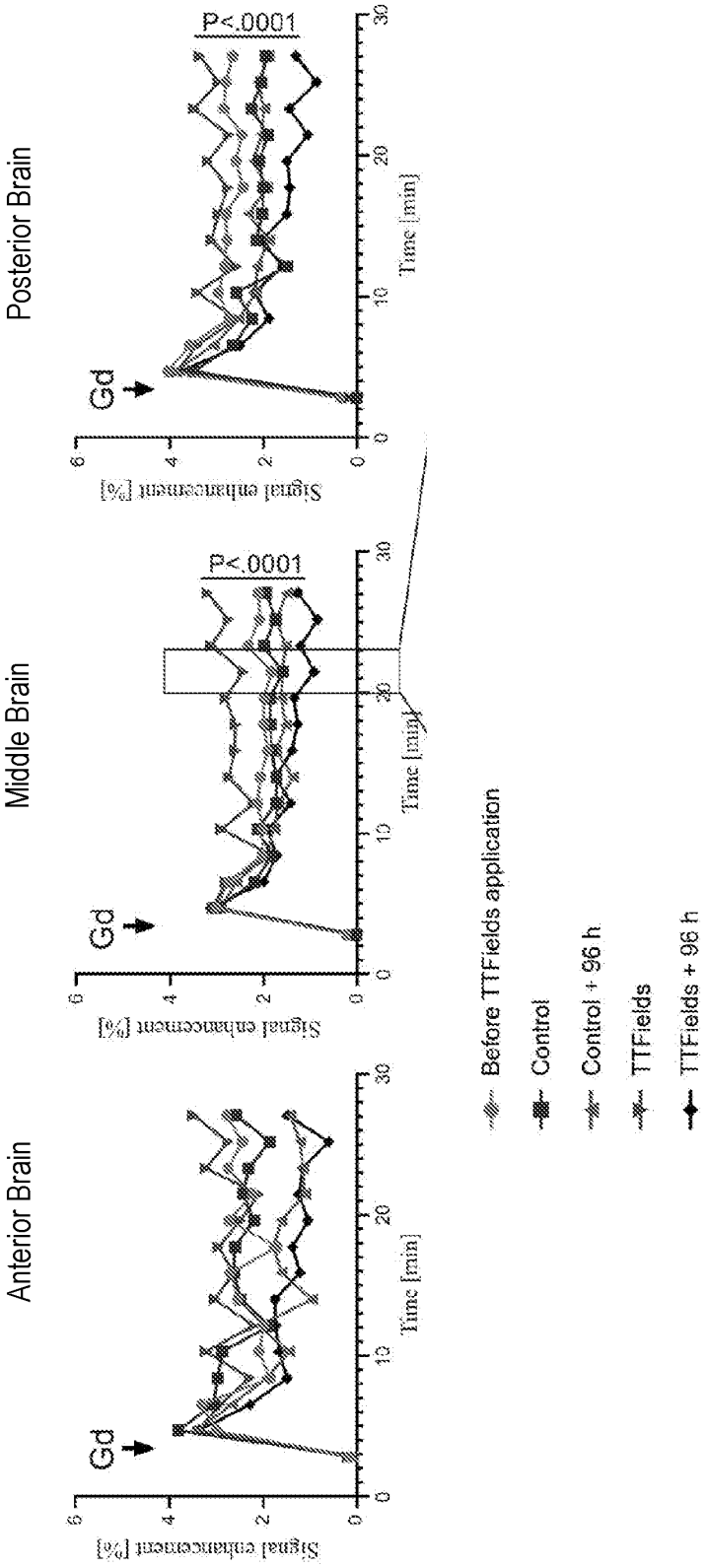

Anterior Brain
Middle Brain
Posterior Brain
Gd
P<.0001
Signal enhancement [%]
Time [min]
Before TTFields application
Control
Control + 96 h
TTFields
TTFields + 96 h

FIG. 7

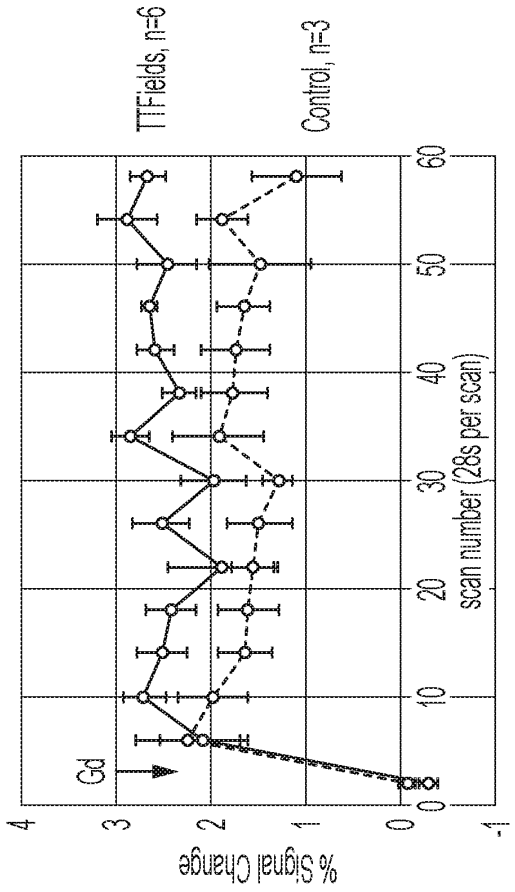

TTFields, n=6
Control, n=3
Gd
% Signal Change
scan number (28s per scan)
4
3
2
1
0
-1
0
10
20
30
40
50
60

FIG. 8

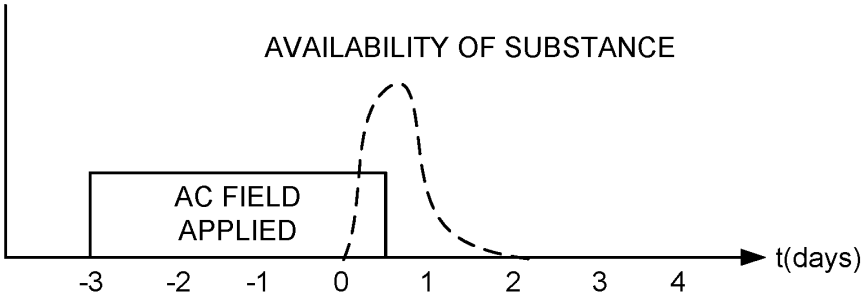


FIG. 9

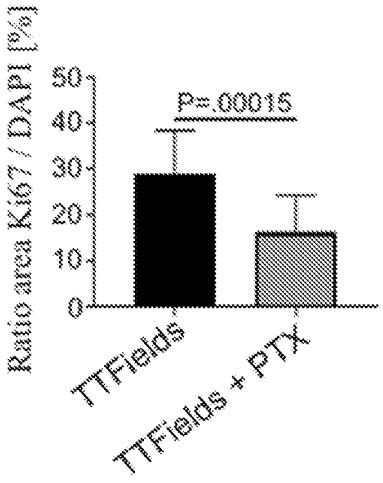


FIG. 10

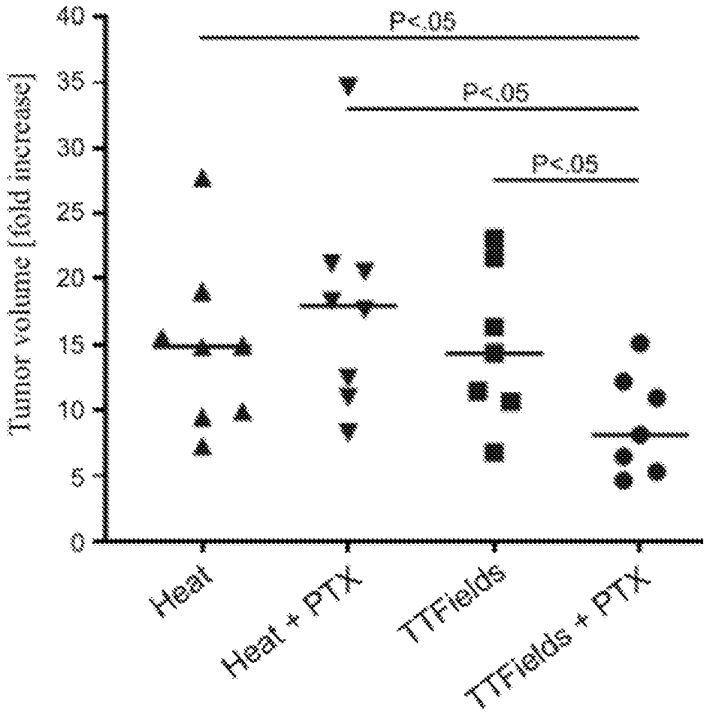


FIG. 11

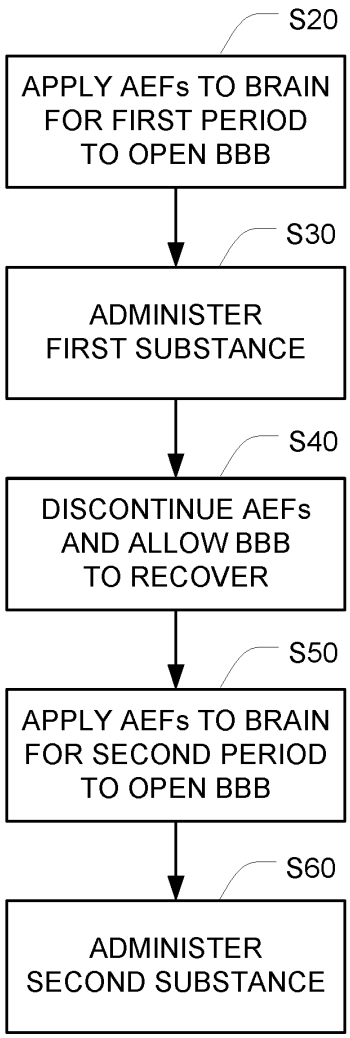

S20
APPLY AEFs TO BRAIN FOR FIRST PERIOD TO OPEN BBB
S30
ADMINISTER FIRST SUBSTANCE
S40
DISCONTINUE AEFs AND ALLOW BBB TO RECOVER
S50
APPLY AEFs TO BRAIN FOR SECOND PERIOD TO OPEN BBB
S60
ADMINISTER SECOND SUBSTANCE

FIG. 12

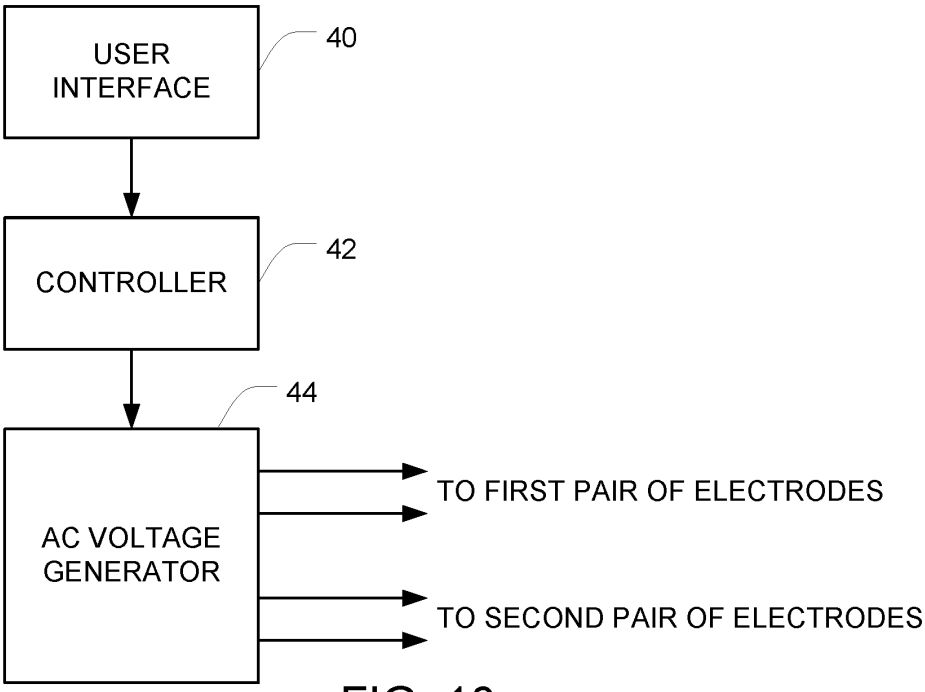

USER INTERFACE
40
CONTROLLER
42
44
AC VOLTAGE GENERATOR
TO FIRST PAIR OF ELECTRODES
TO SECOND PAIR OF ELECTRODES

FIG. 13

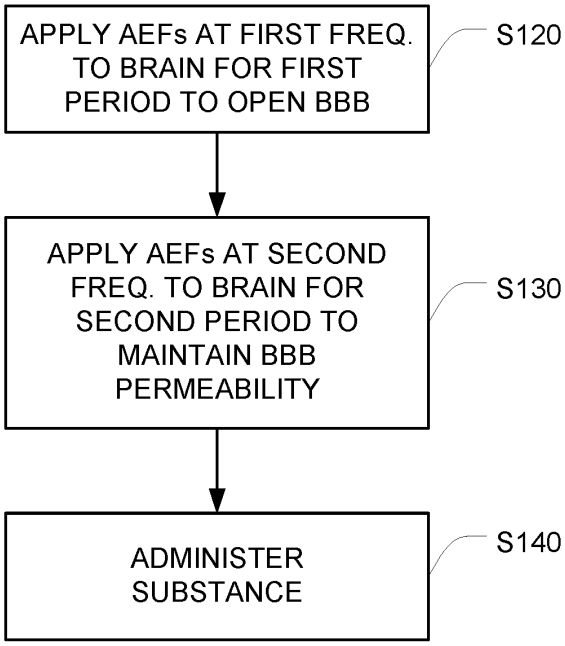

APPLY AEFs AT FIRST FREQ. TO BRAIN FOR FIRST PERIOD TO OPEN BBB
S120
APPLY AEFs AT SECOND FREQ. TO BRAIN FOR SECOND PERIOD TO MAINTAIN BBB PERMEABILITY
S130
ADMINISTER SUBSTANCE
S140

FIG. 14