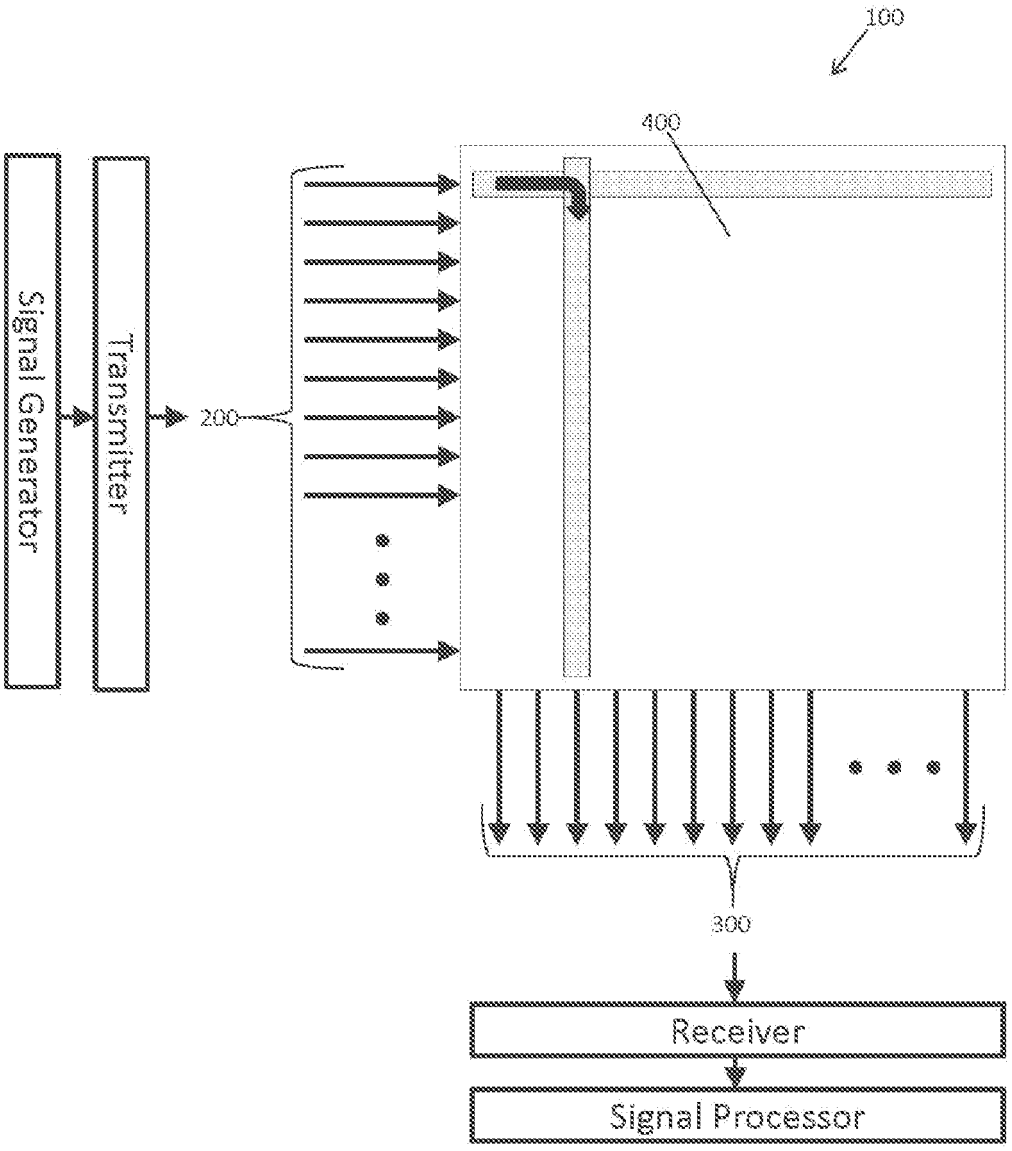
100
400
Signal Generator
Transmitter
200
300
Receiver
Signal Processor

FIG. 1

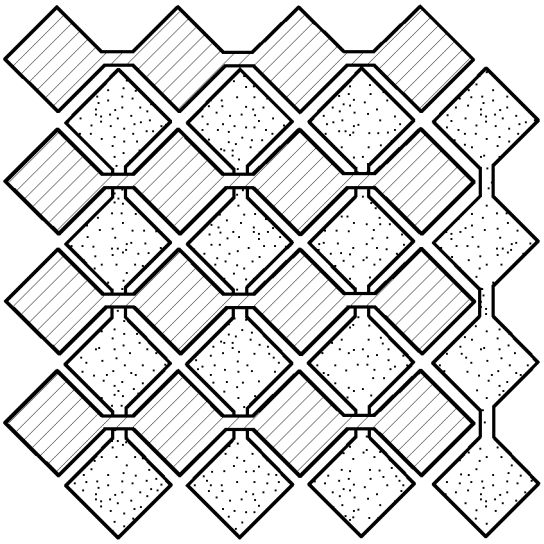

FIG. 2

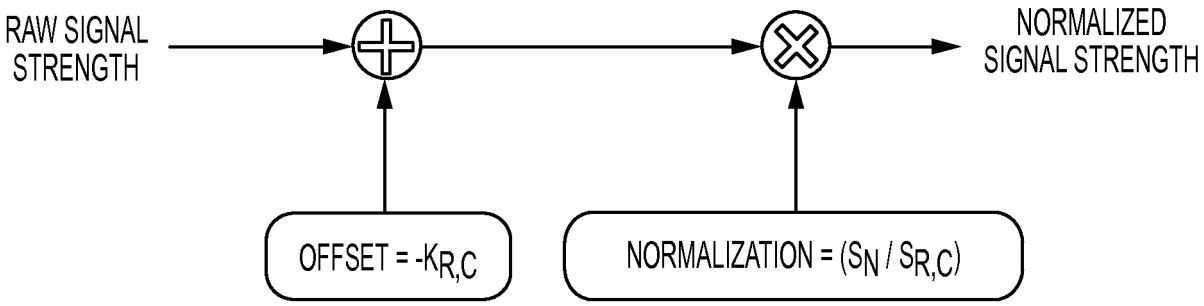
RAW SIGNAL STRENGTH
NORMALIZED SIGNAL STRENGTH
OFFSET = -$K_{R,C}$
NORMALIZATION = (S_N / $S_{R,C}$)

FIG. 3

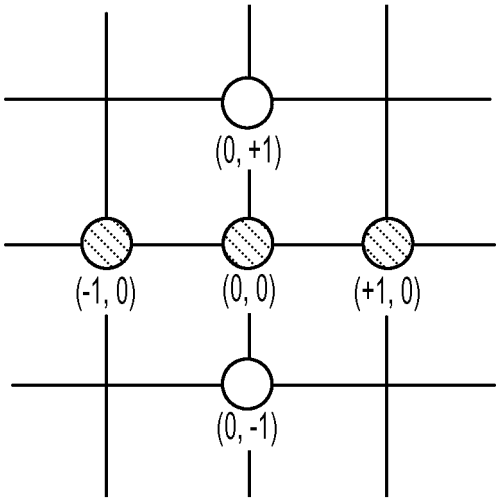
(0, +1)
(-1, 0)
(0, 0)
(+1, 0)
(0, -1)

FIG. 4

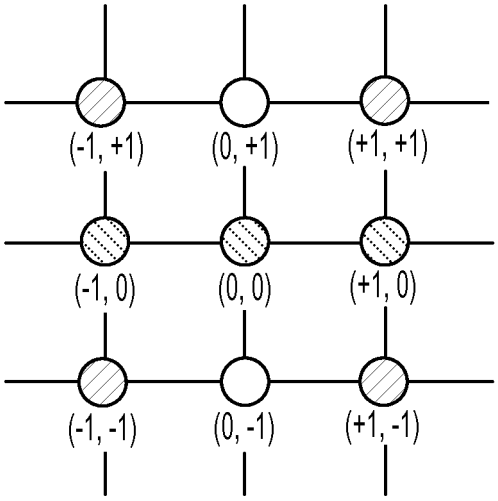

FIG. 5

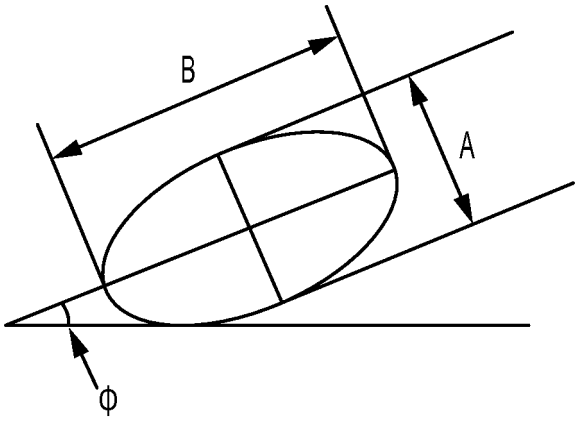

FIG. 6

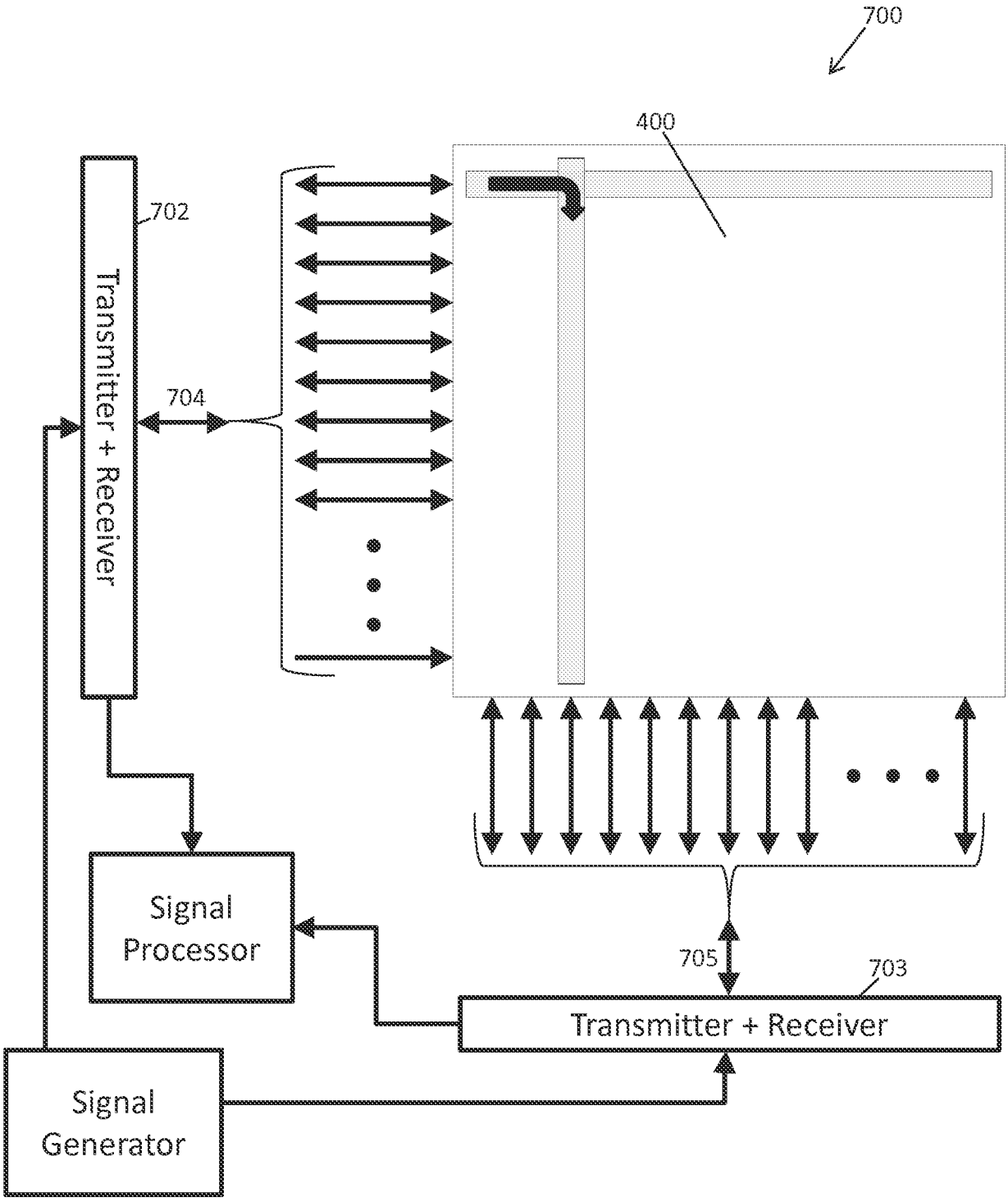
700
400
702
Transmitter + Receiver
704
Signal Processor
705
703
Transmitter + Receiver
Signal Generator

FIG. 7

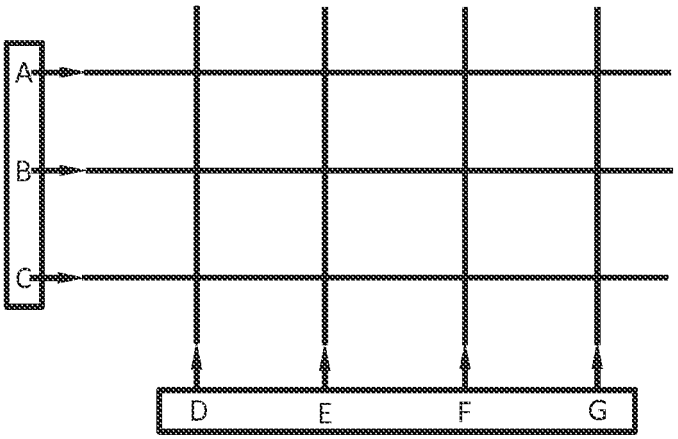

FIG. 8

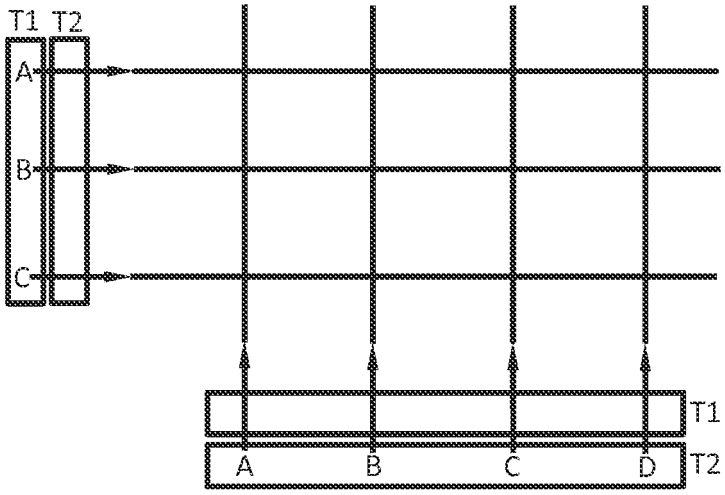

FIG. 9

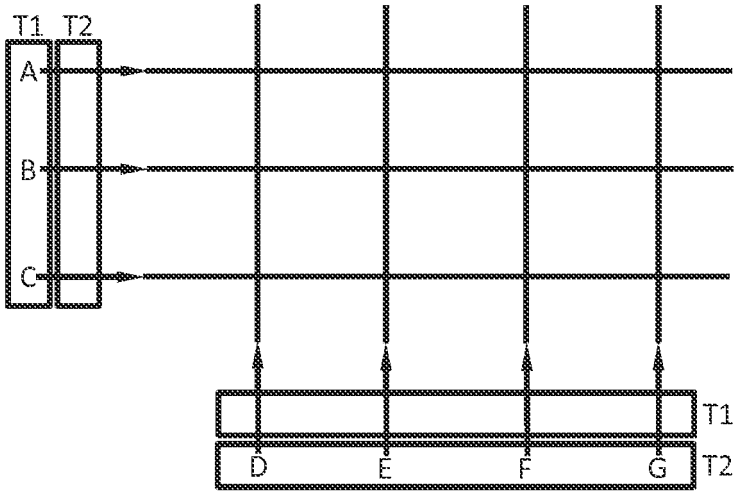

FIG. 10

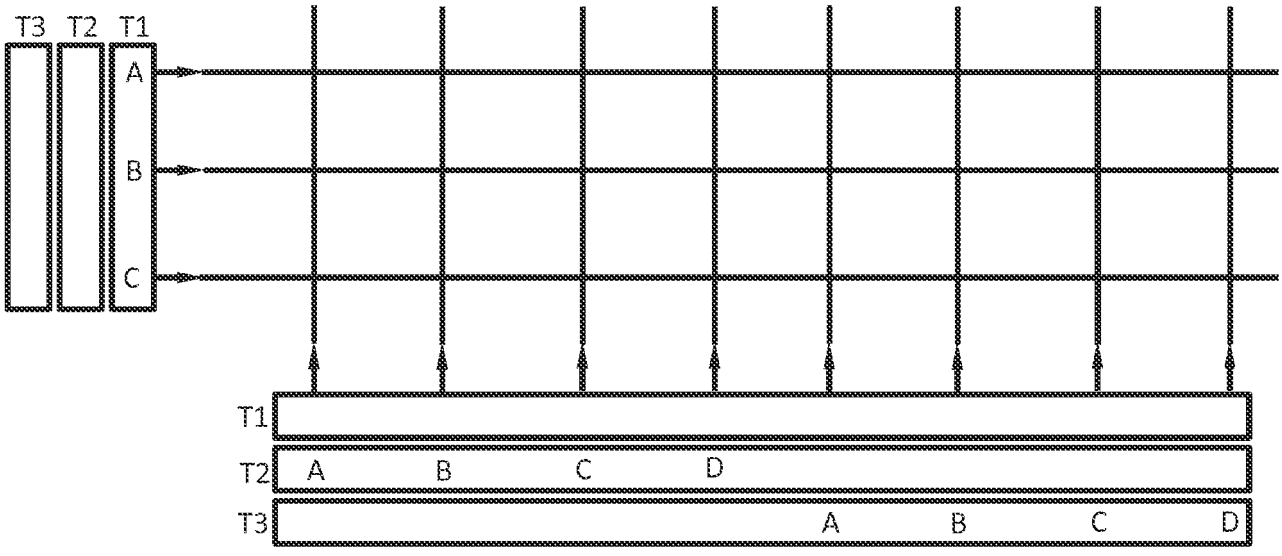

FIG. 11

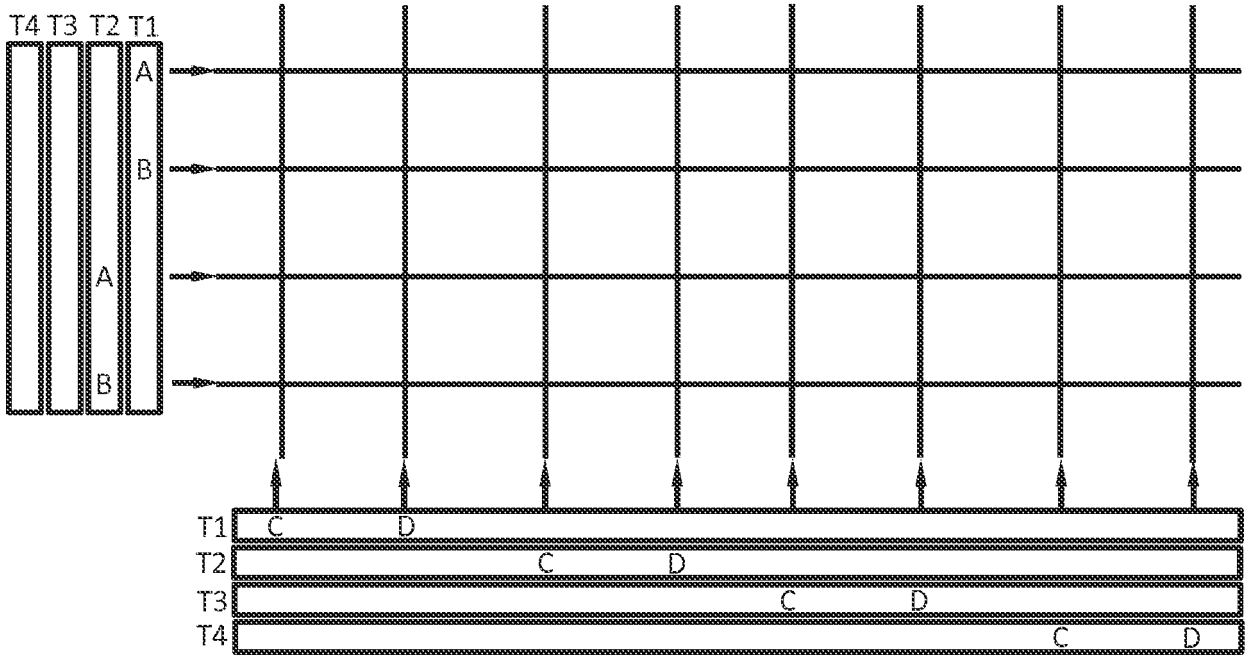

FIG. 12A

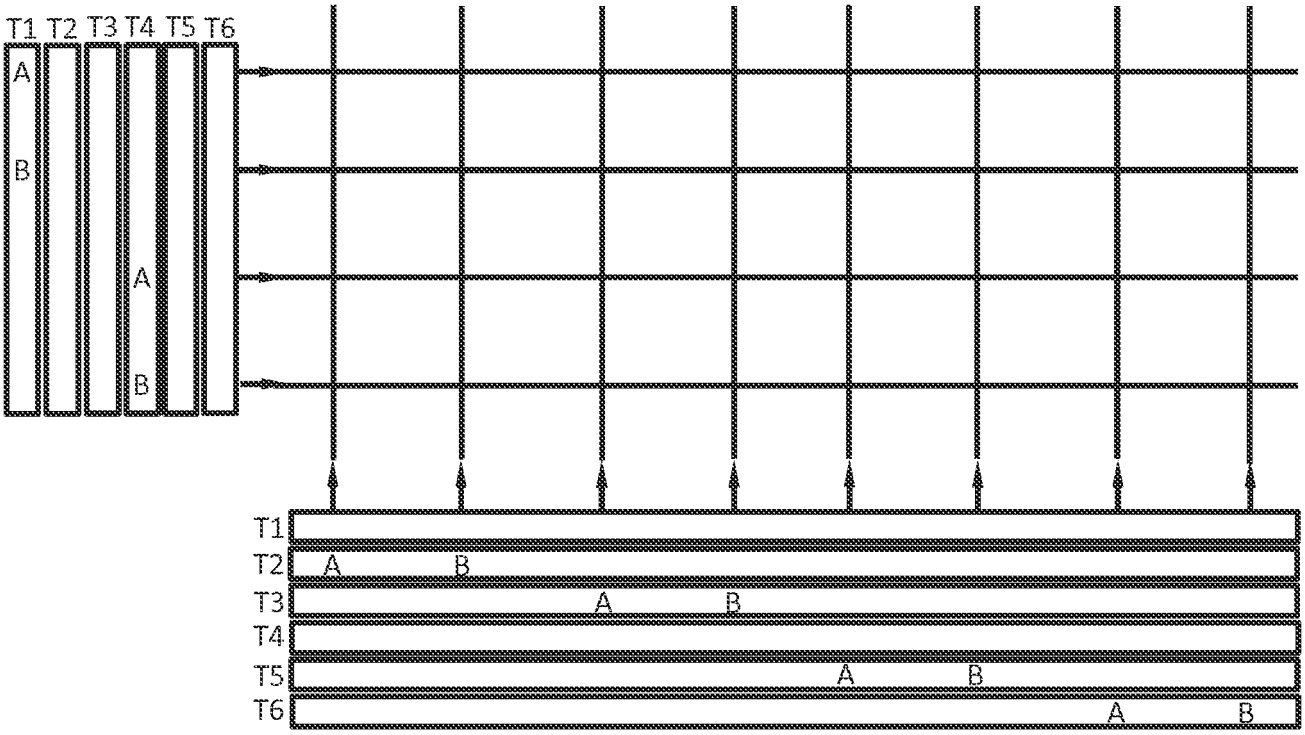

FIG. 12B

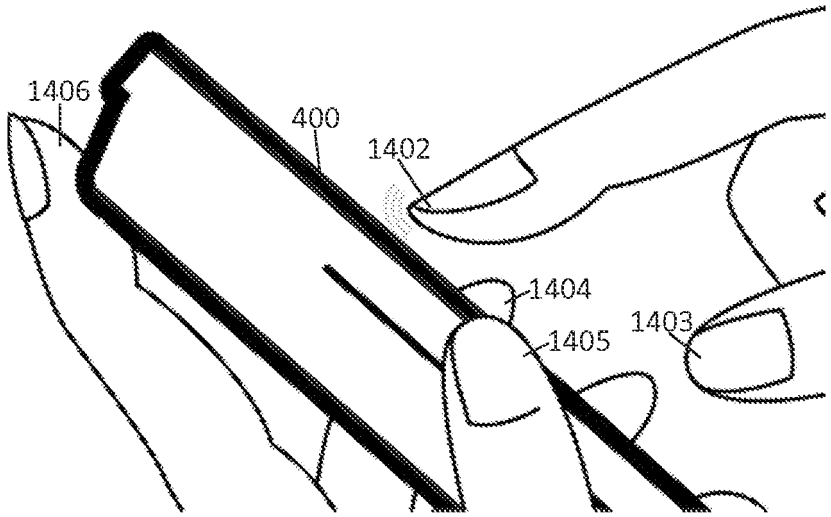
1406
400
1402
1404
1405
1403

FIG. 13

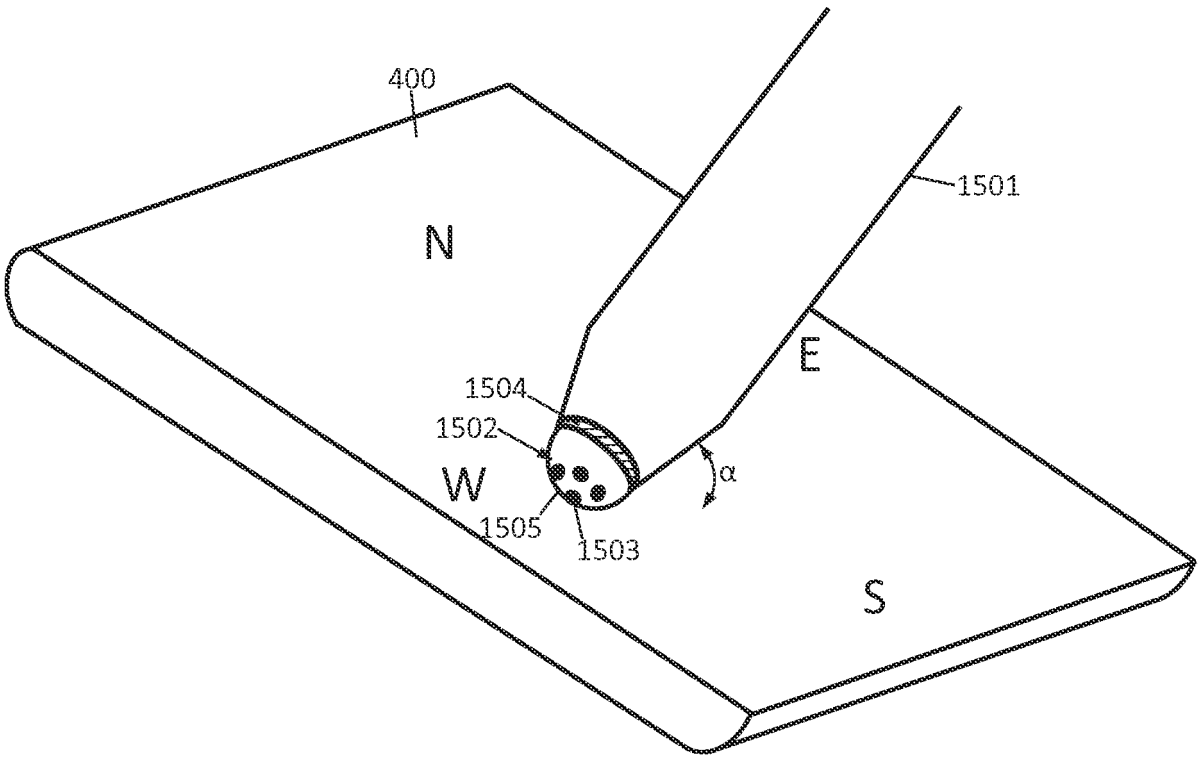
400
N
1501
E
1504
1502
W
α
1505
1503
S

FIG. 14

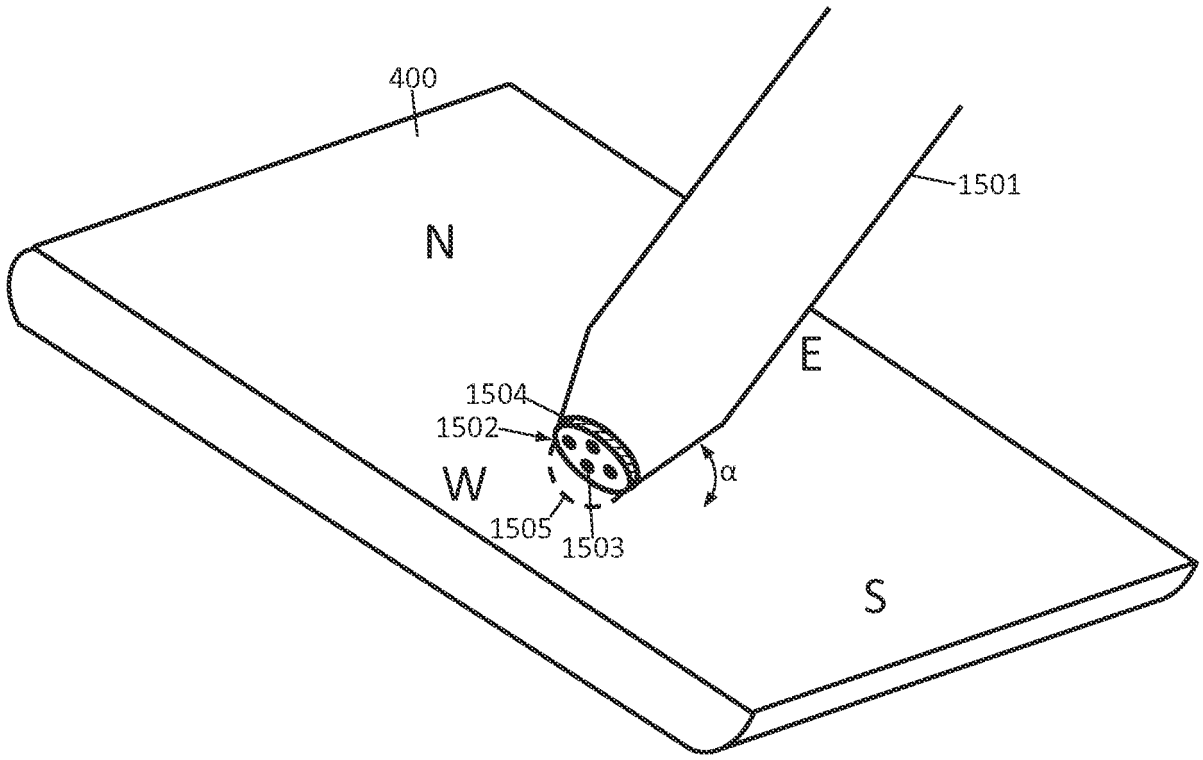

FIG. 15

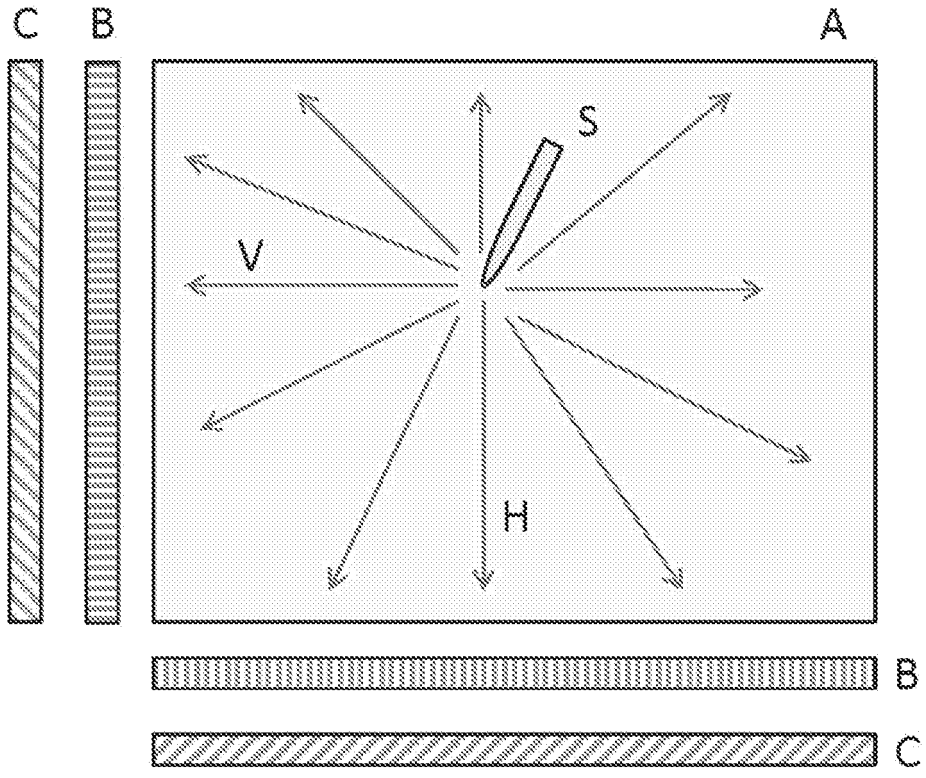

FIG. 16

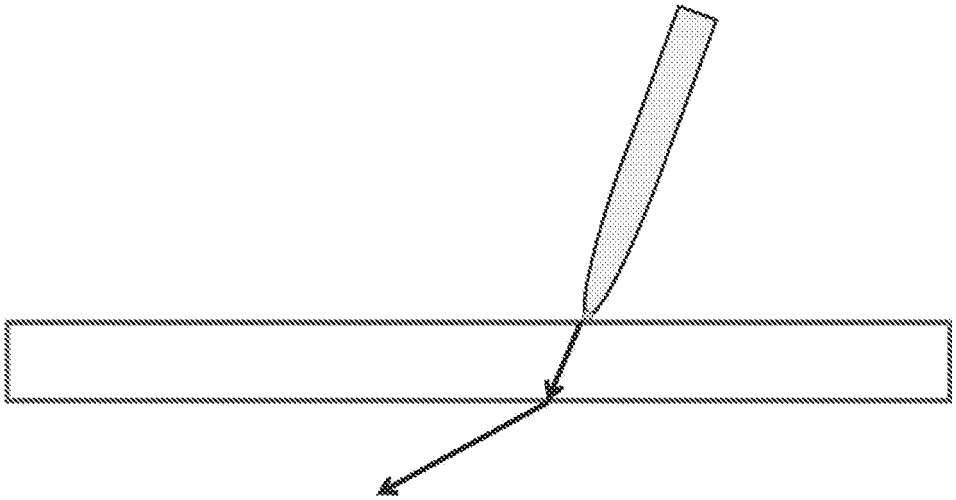

FIG. 17

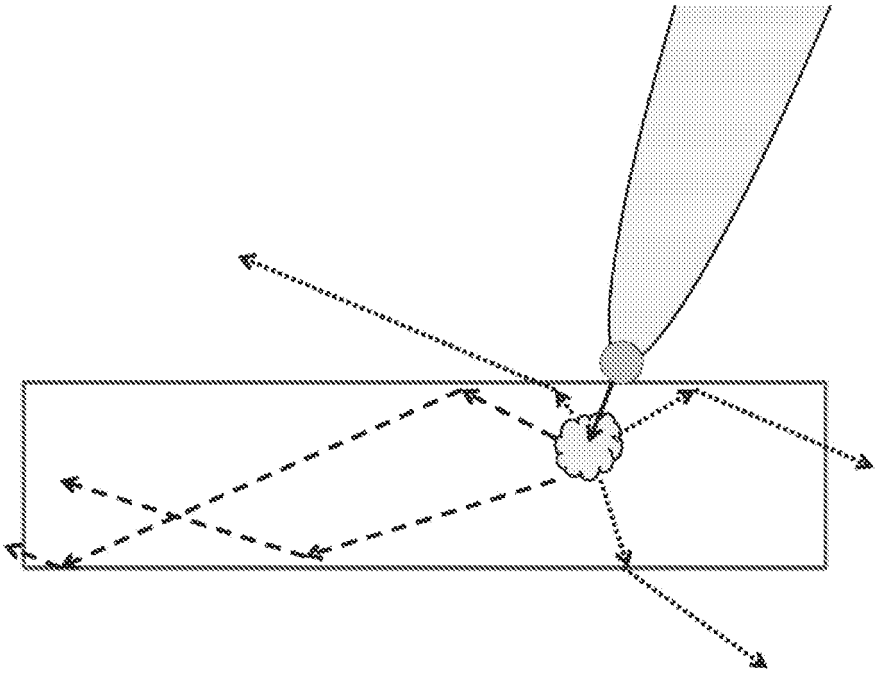

FIG. 18

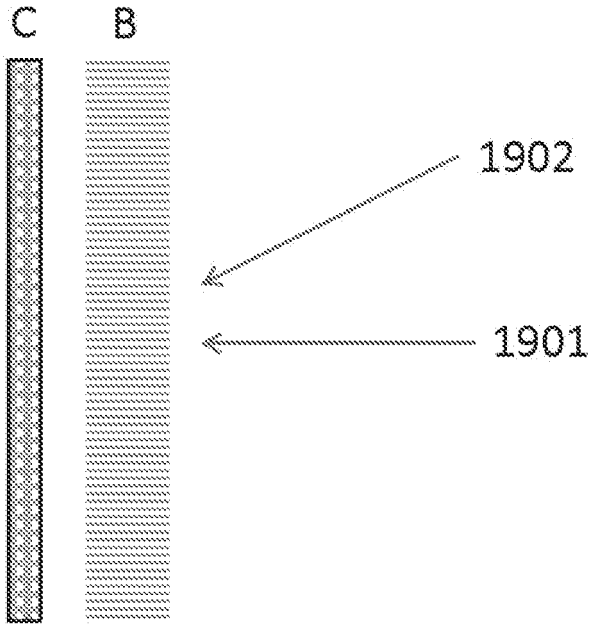

FIG. 19

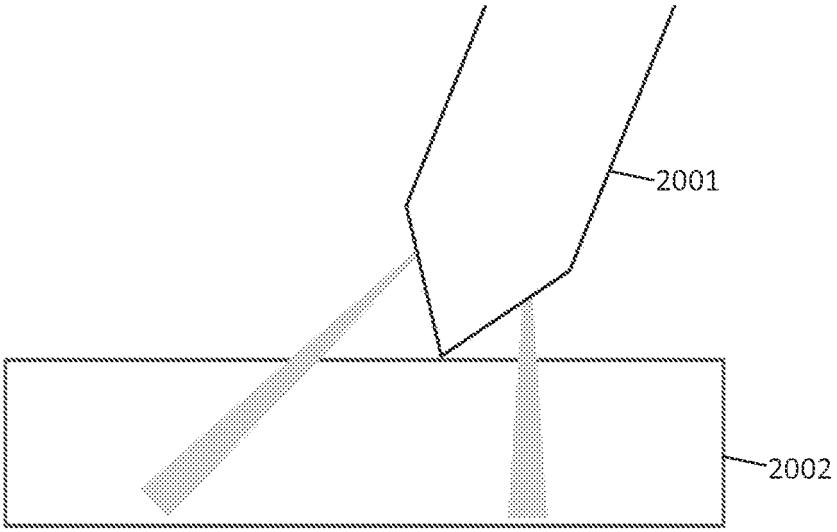

FIG. 20

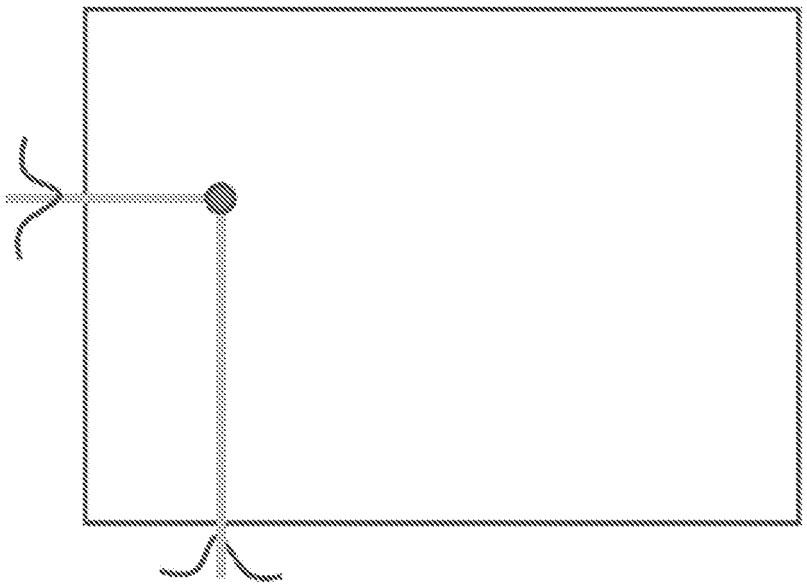

FIG. 21

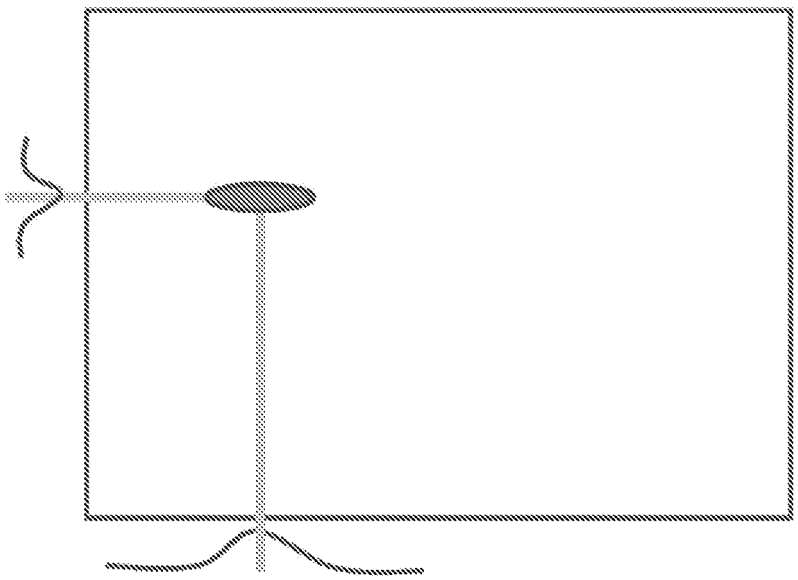

FIG. 22

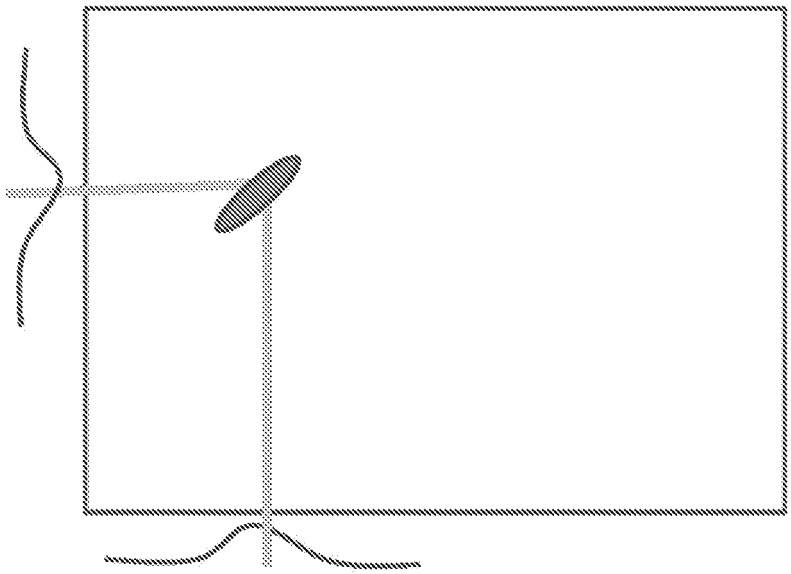

FIG. 23

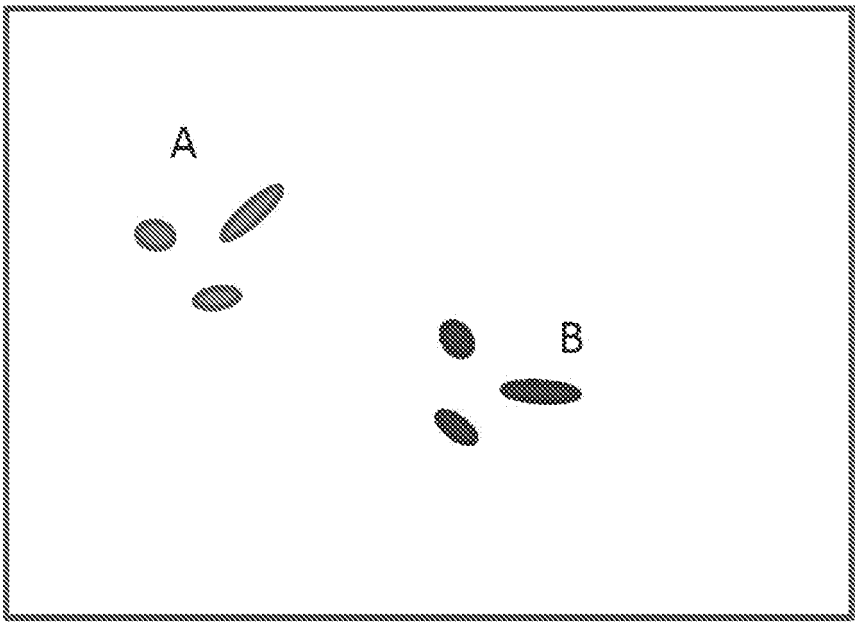

FIG. 24

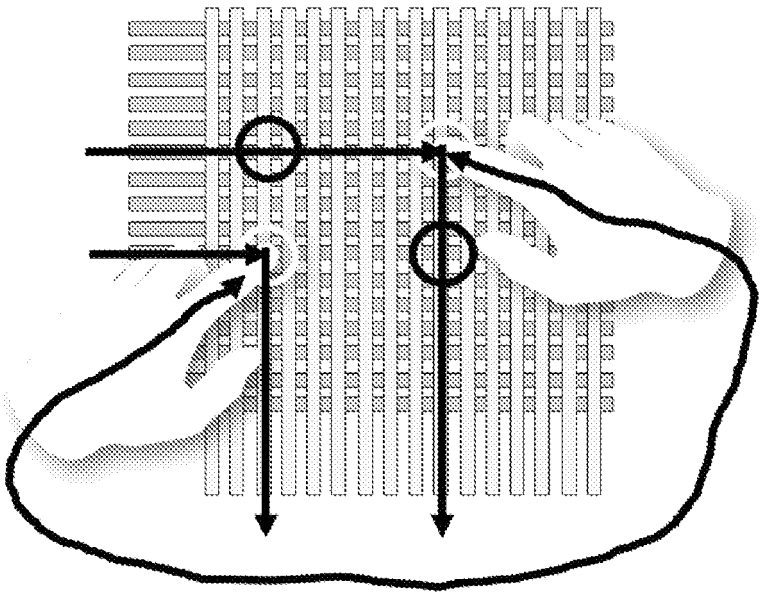

FIG. 25

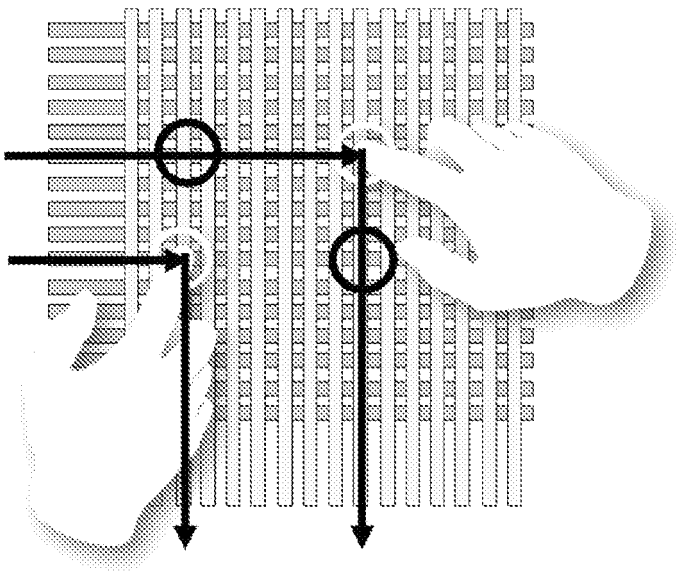

FIG. 26

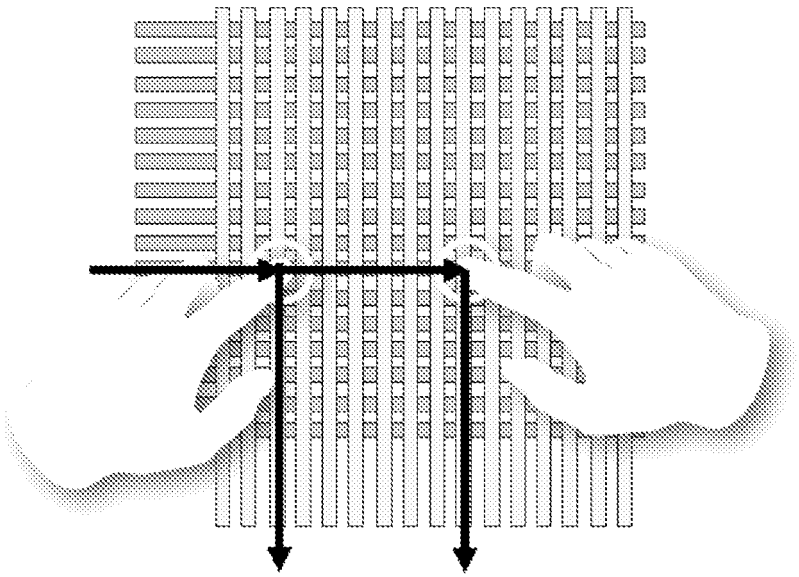

FIG. 27

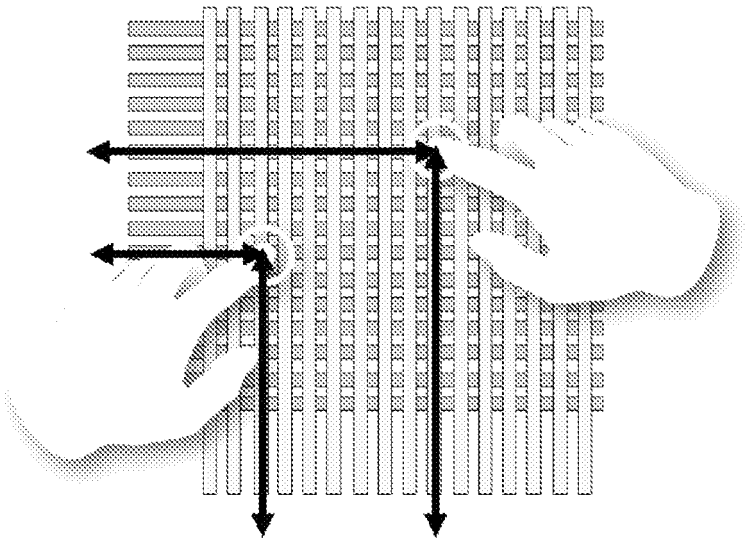

FIG. 28

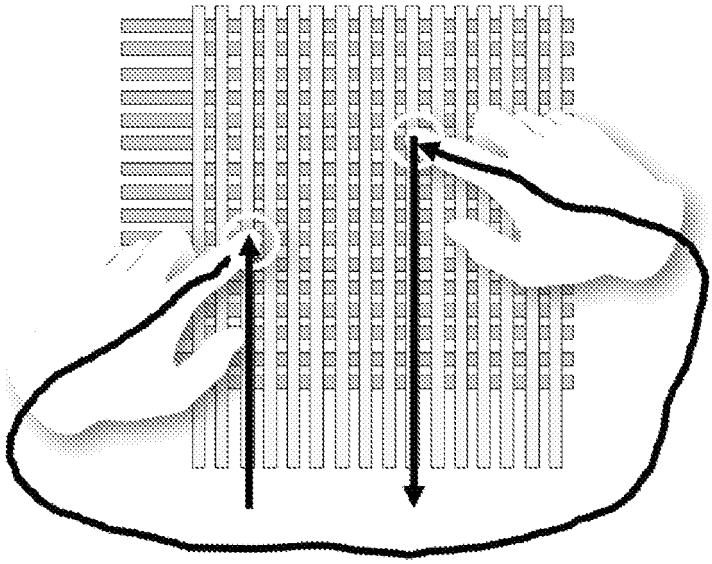

FIG. 29

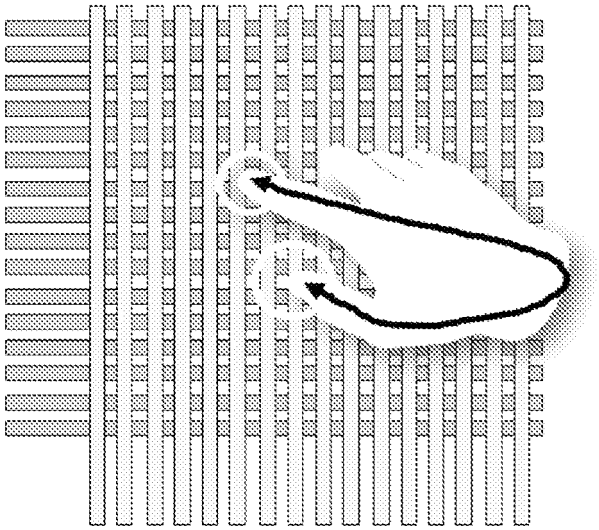

FIG. 30

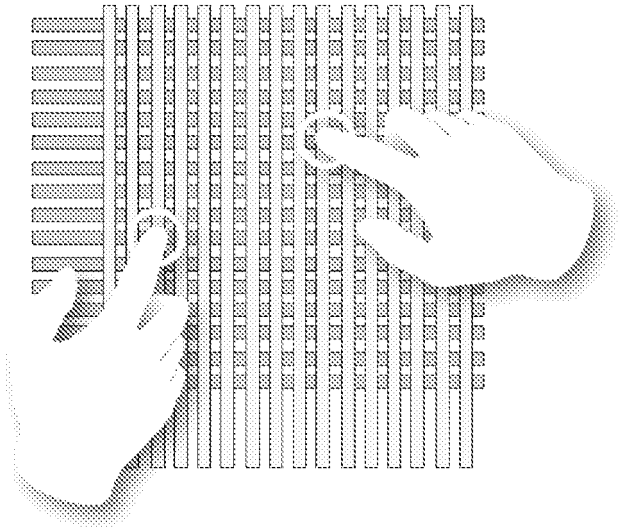

FIG. 31

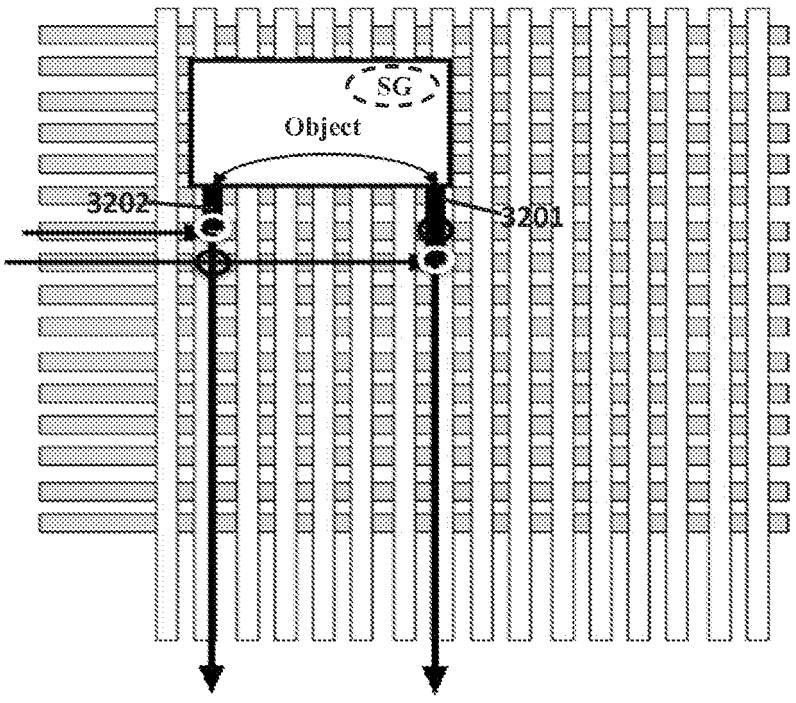

FIG. 32

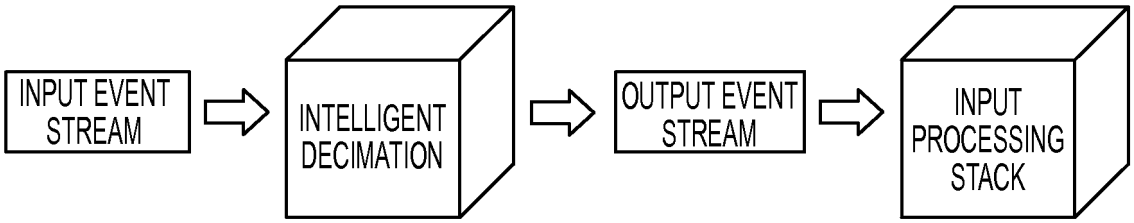

FIG. 33a

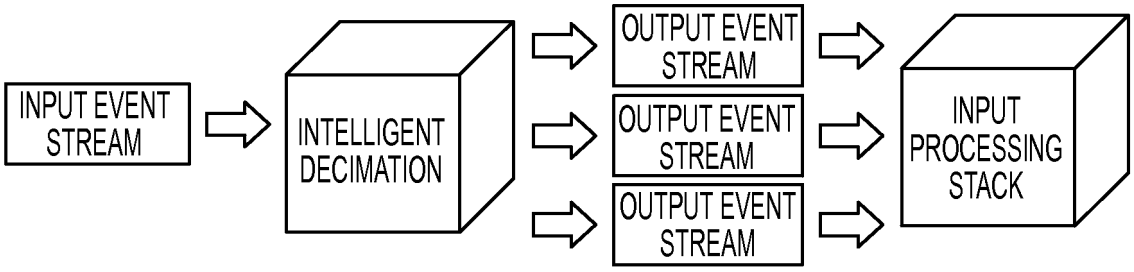

FIG. 33b

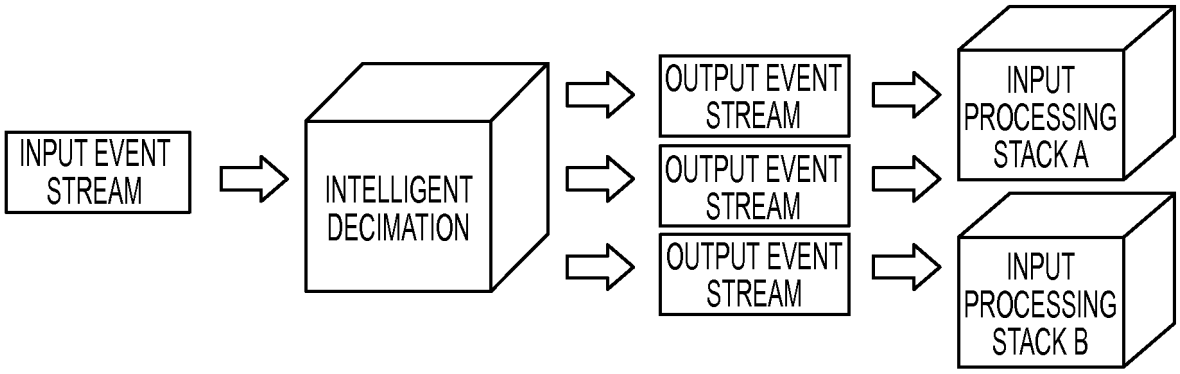

FIG. 33c

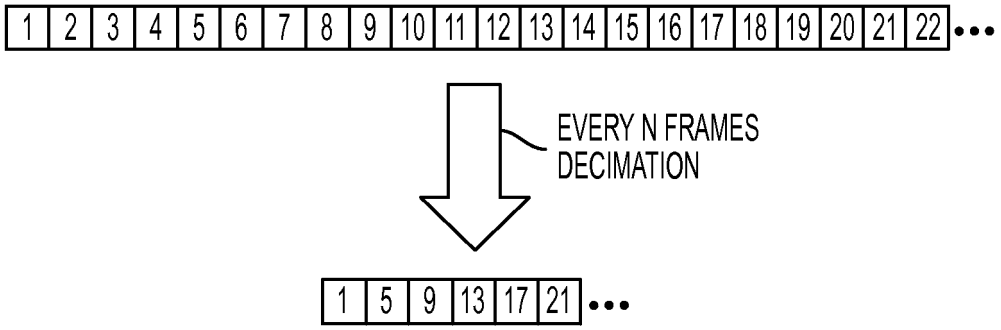
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 •••
EVERY N FRAMES DECIMATION
1 5 9 13 17 21 •••

FIG. 34

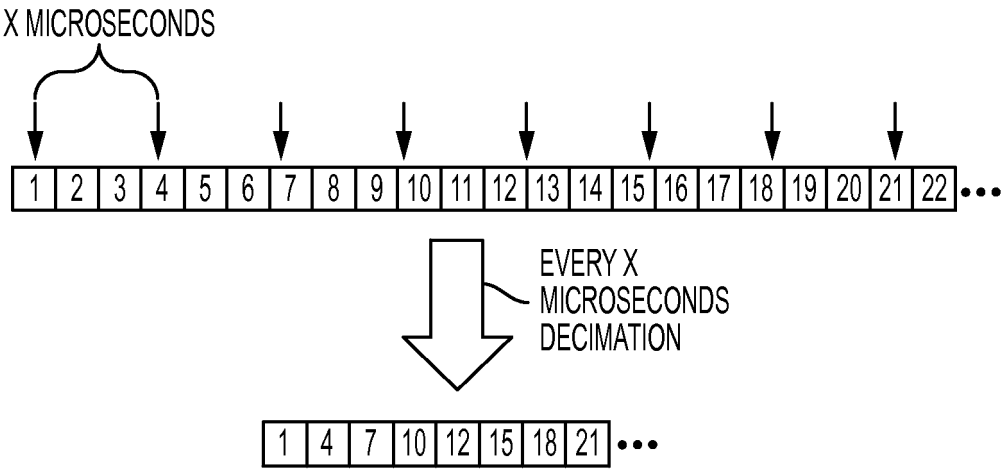
X MICROSECONDS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 •••
EVERY X MICROSECONDS DECIMATION
1 4 7 10 12 15 18 21 •••

FIG. 35

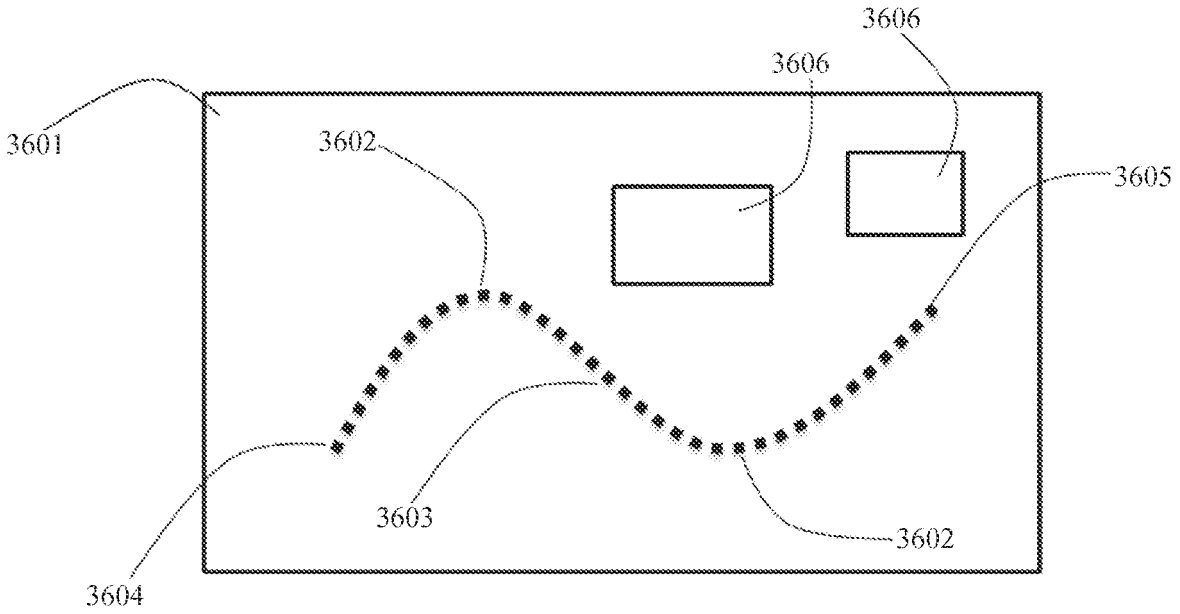
3606
3606
3601
3602
3605
3603
3602
3604

FIG. 36

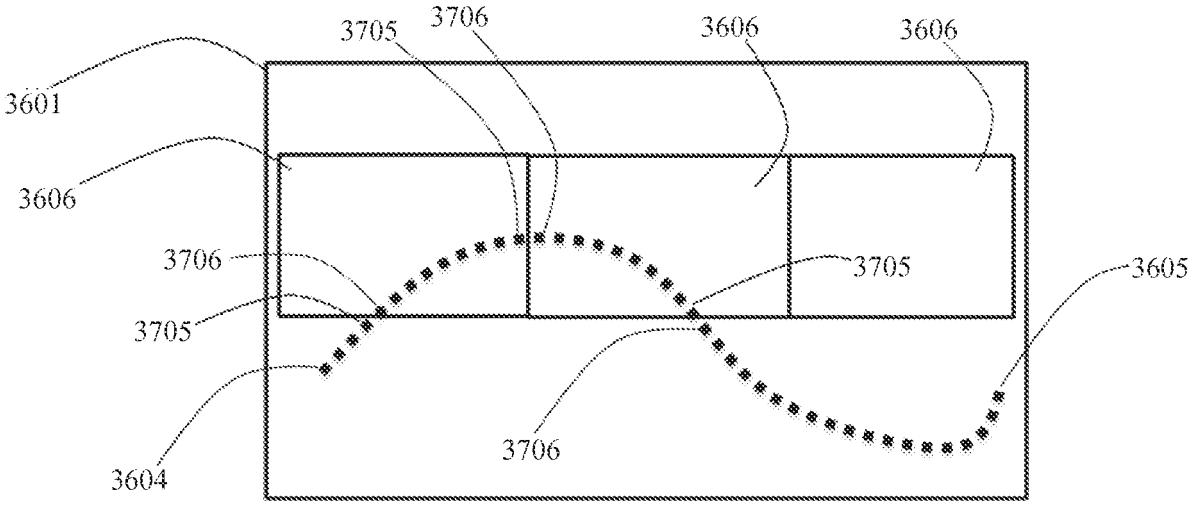
3705
3706
3606
3606
3601
3606
3706
3705
3705
3605
3706
3604

FIG. 37

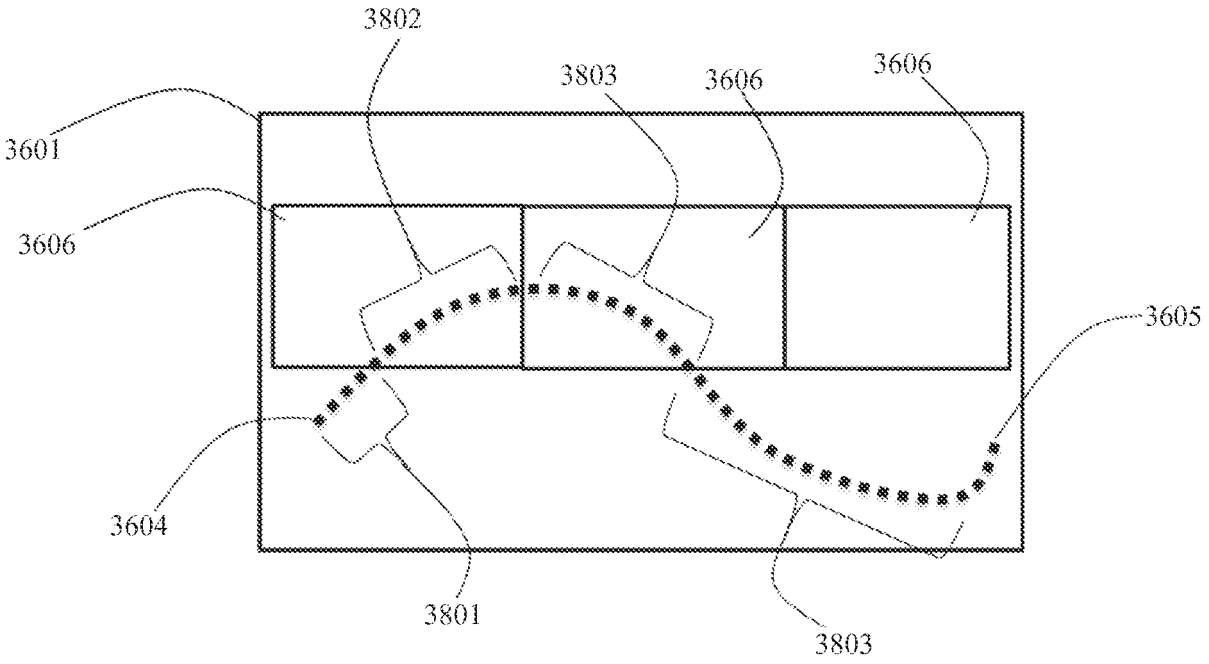
3802
3803
3606
3606
3601
3606
3605
3604
3801
3803

FIG. 38

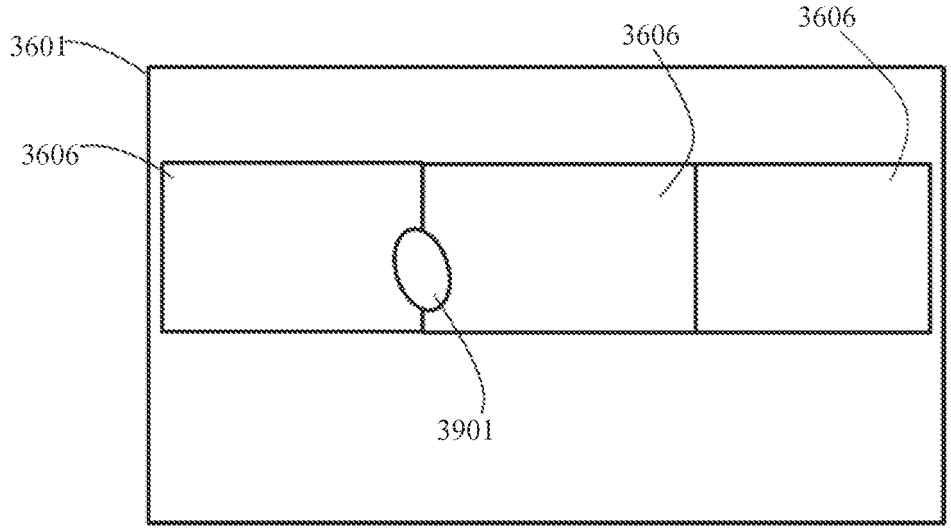
3606
3606
3601
3606
3901

FIG. 39

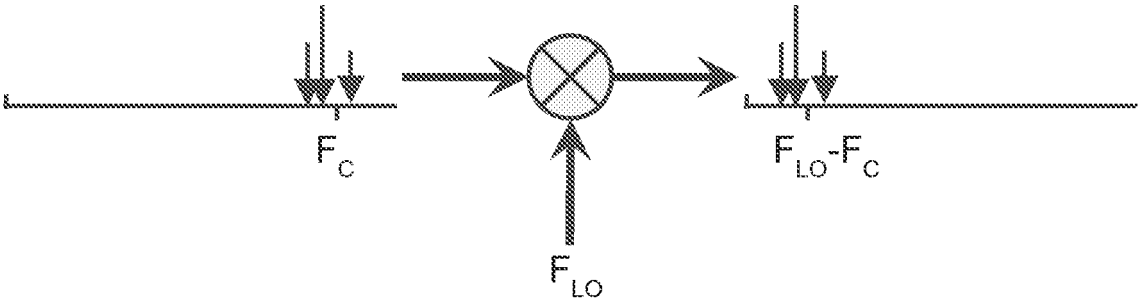

FIG. 40

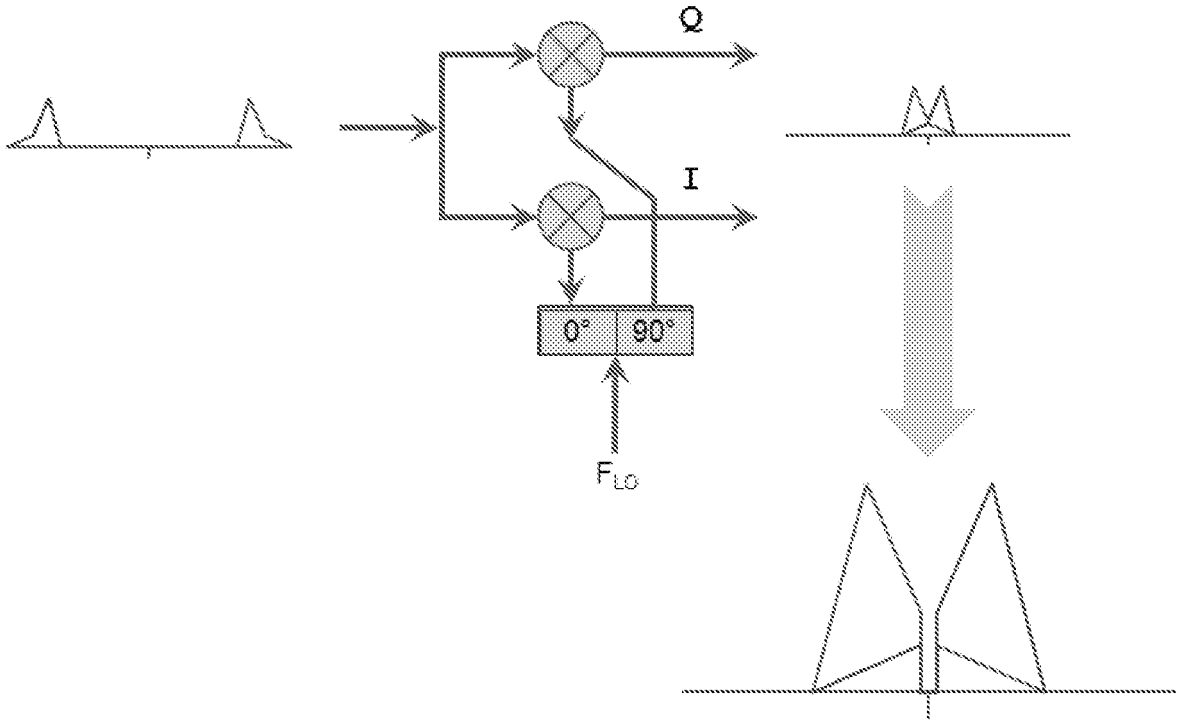

FIG. 41

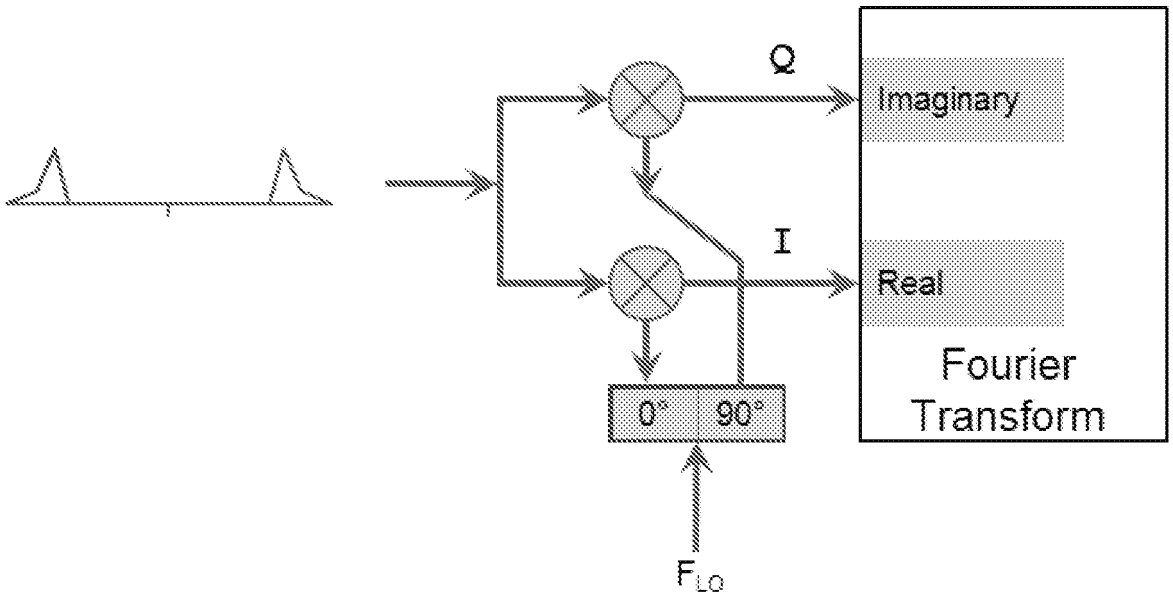

FIG. 42