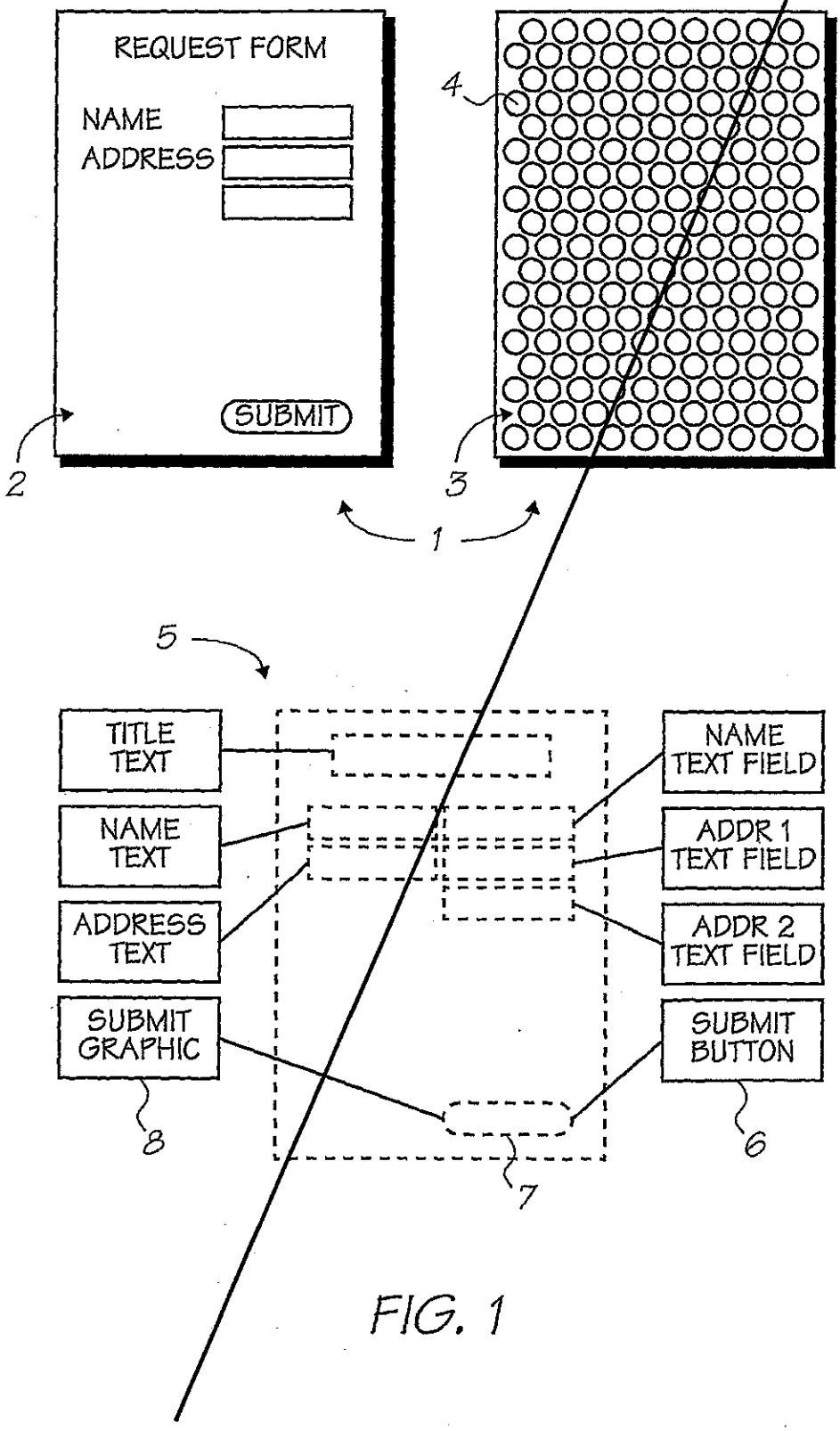

REQUEST FORM
NAME
ADDRESS
SUBMIT
2
3
4
1
5
TITLE TEXT
NAME TEXT
ADDRESS TEXT
SUBMIT GRAPHIC
NAME TEXT FIELD
ADDR 1 TEXT FIELD
ADDR 2 TEXT FIELD
SUBMIT BUTTON
8
7
6

FIG. 1

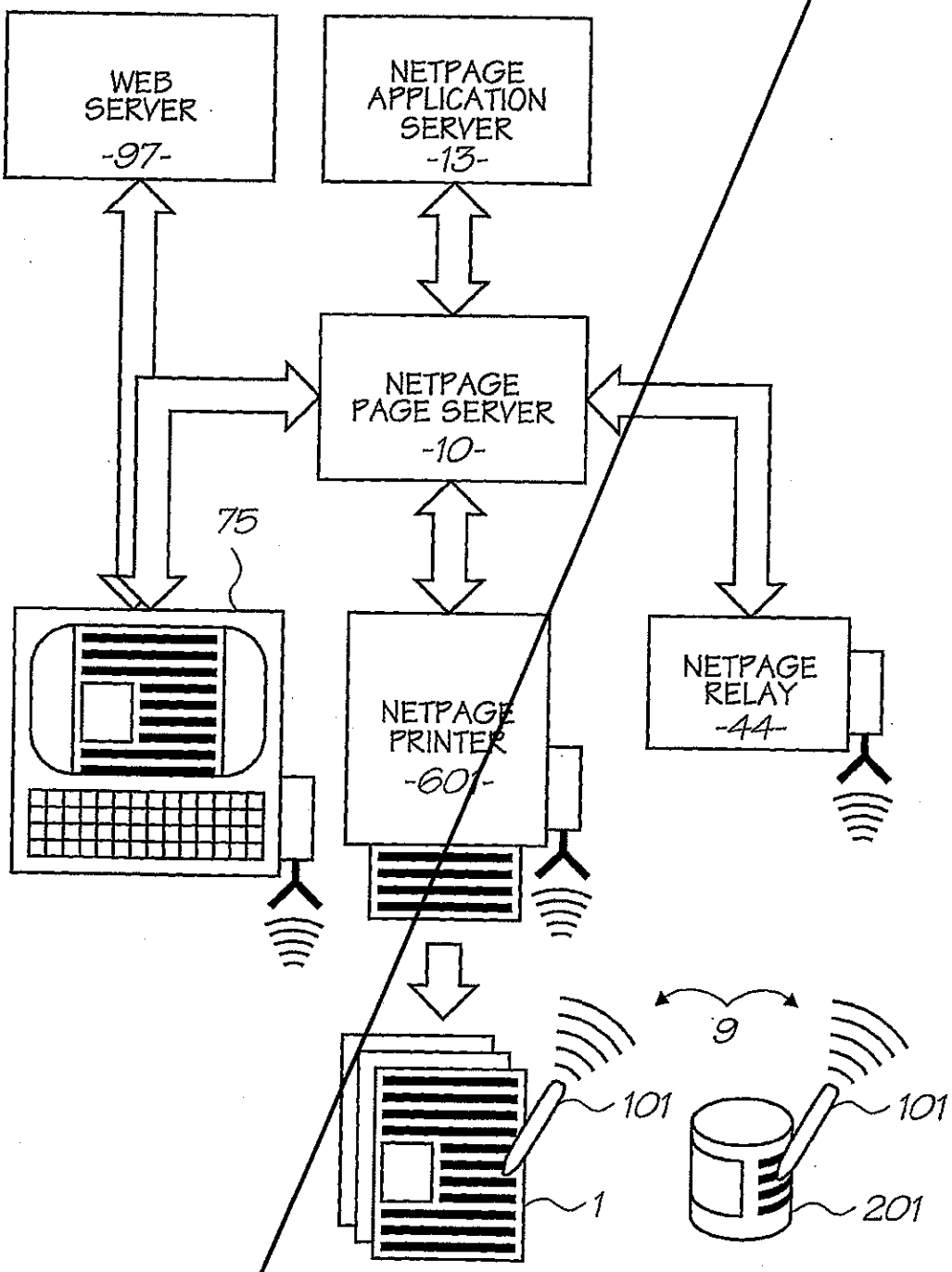

WEB SERVER -97-
NETPAGE APPLICATION SERVER -13-
NETPAGE PAGE SERVER -10-
75
NETPAGE PRINTER -601-
NETPAGE RELAY -44-
9
101
101
1
201

FIG. 2

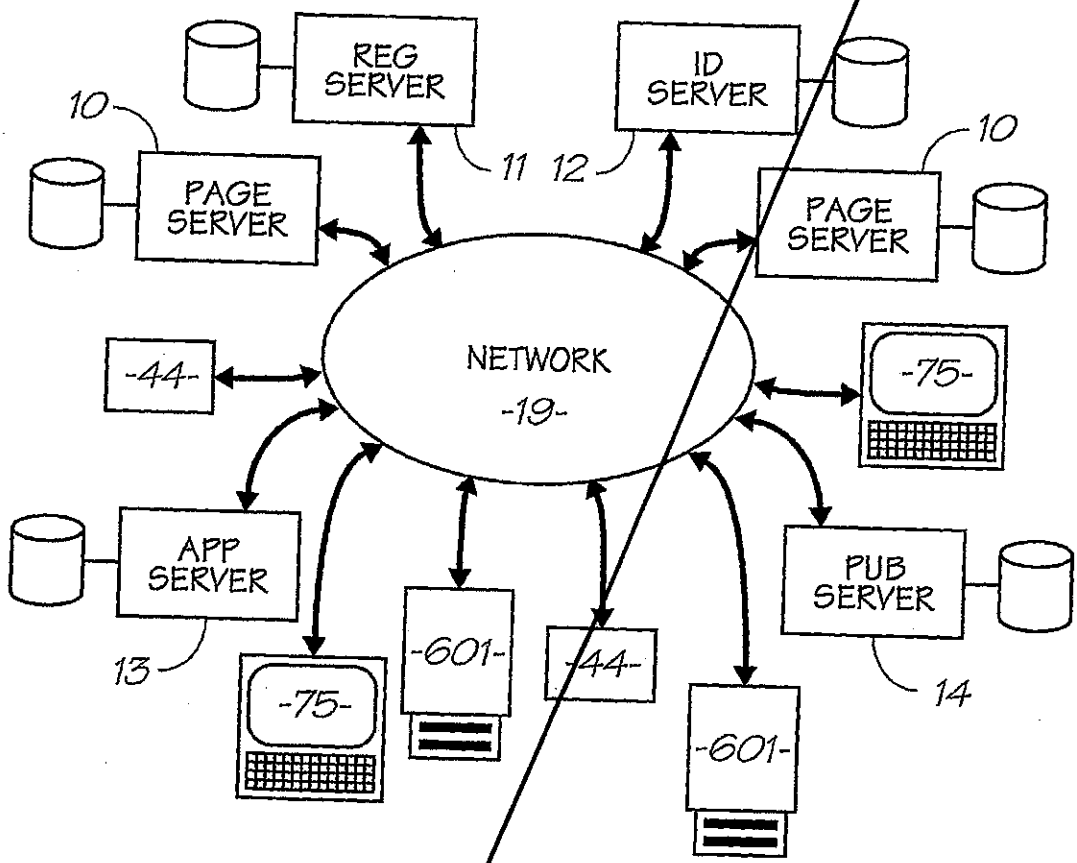

REG SERVER
ID SERVER
10
PAGE SERVER
11
12
10
PAGE SERVER
NETWORK
-19-
-44-
-75-
APP SERVER
PUB SERVER
13
-601-
-44-
-75-
-601-
14

FIG. 3

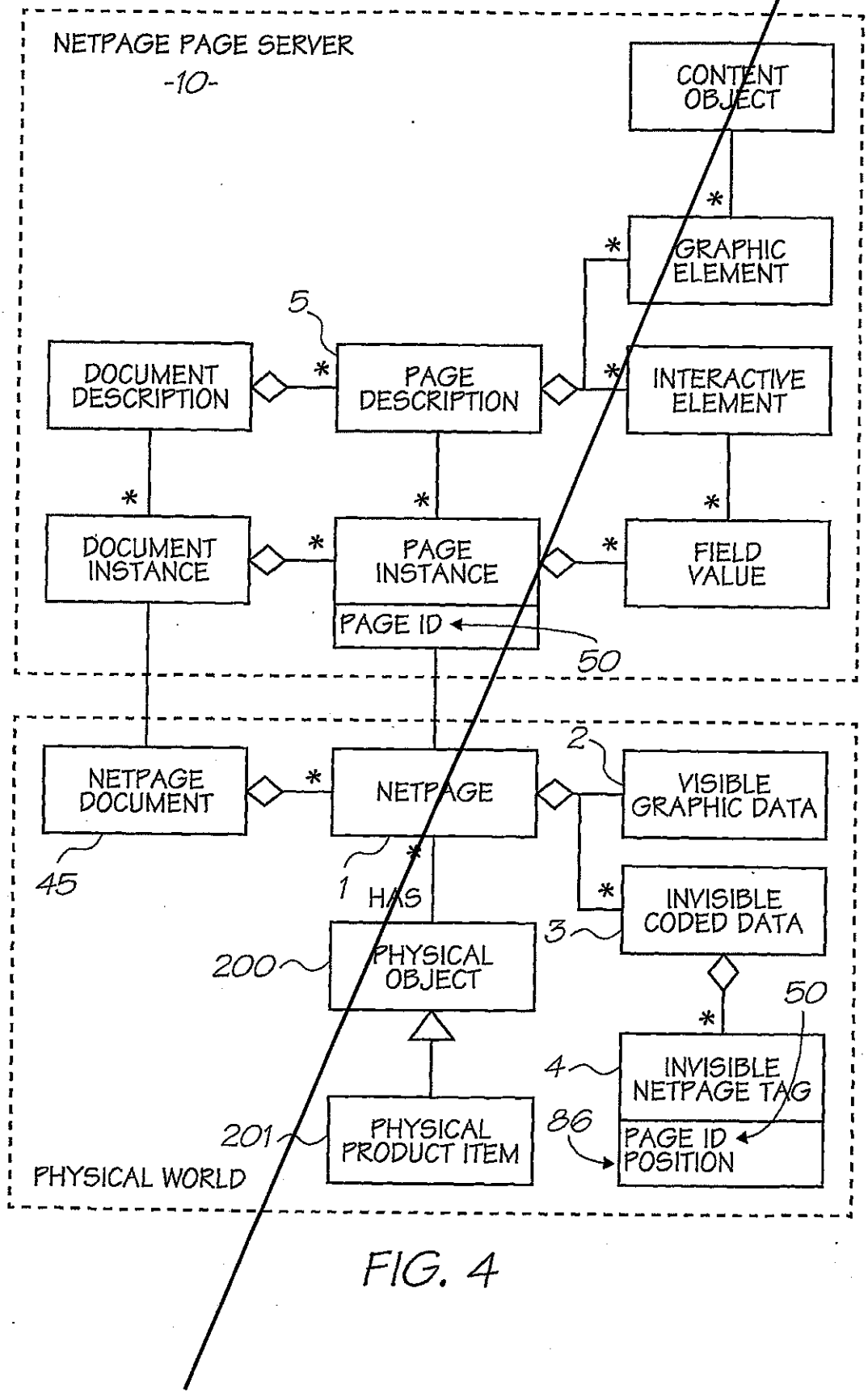

NETPAGE PAGE SERVER
-10-
CONTENT OBJECT
GRAPHIC ELEMENT
5
DOCUMENT DESCRIPTION
PAGE DESCRIPTION
INTERACTIVE ELEMENT
DOCUMENT INSTANCE
PAGE INSTANCE
FIELD VALUE
PAGE ID
50
NETPAGE DOCUMENT
NETPAGE
2
VISIBLE GRAPHIC DATA
45
1
HAS
INVISIBLE CODED DATA
3
200
PHYSICAL OBJECT
50
4
INVISIBLE NETPAGE TAG
201
PHYSICAL PRODUCT ITEM
86
PAGE ID POSITION
PHYSICAL WORLD

FIG. 4

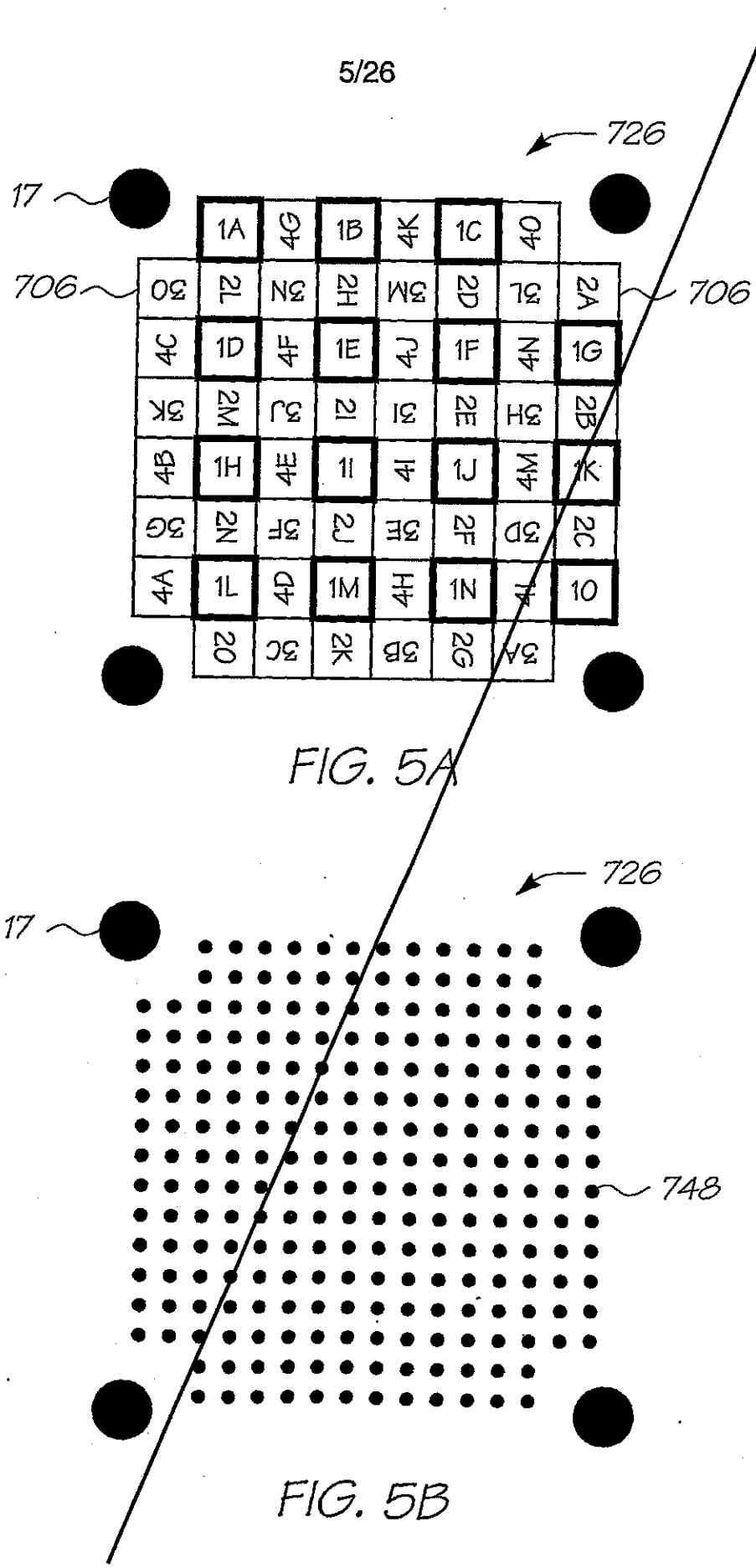

726
17
706
706
1A
4G
1B
4K
1C
4O
3O
2L
3N
2H
3M
2D
3L
2A
4C
1D
4F
1E
4J
1F
4N
1G
3K
2M
3J
2I
3I
2E
3H
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4B
1H
4E
1I
4I
1J
4M
1K
3G
2N
3F
2J
3E
2F
3D
2C
4A
1L
4D
1M
4H
1N
4
1O
2O
3C
2K
3B
2G
3A

FIG. 5A


726
17
748

FIG. 5B

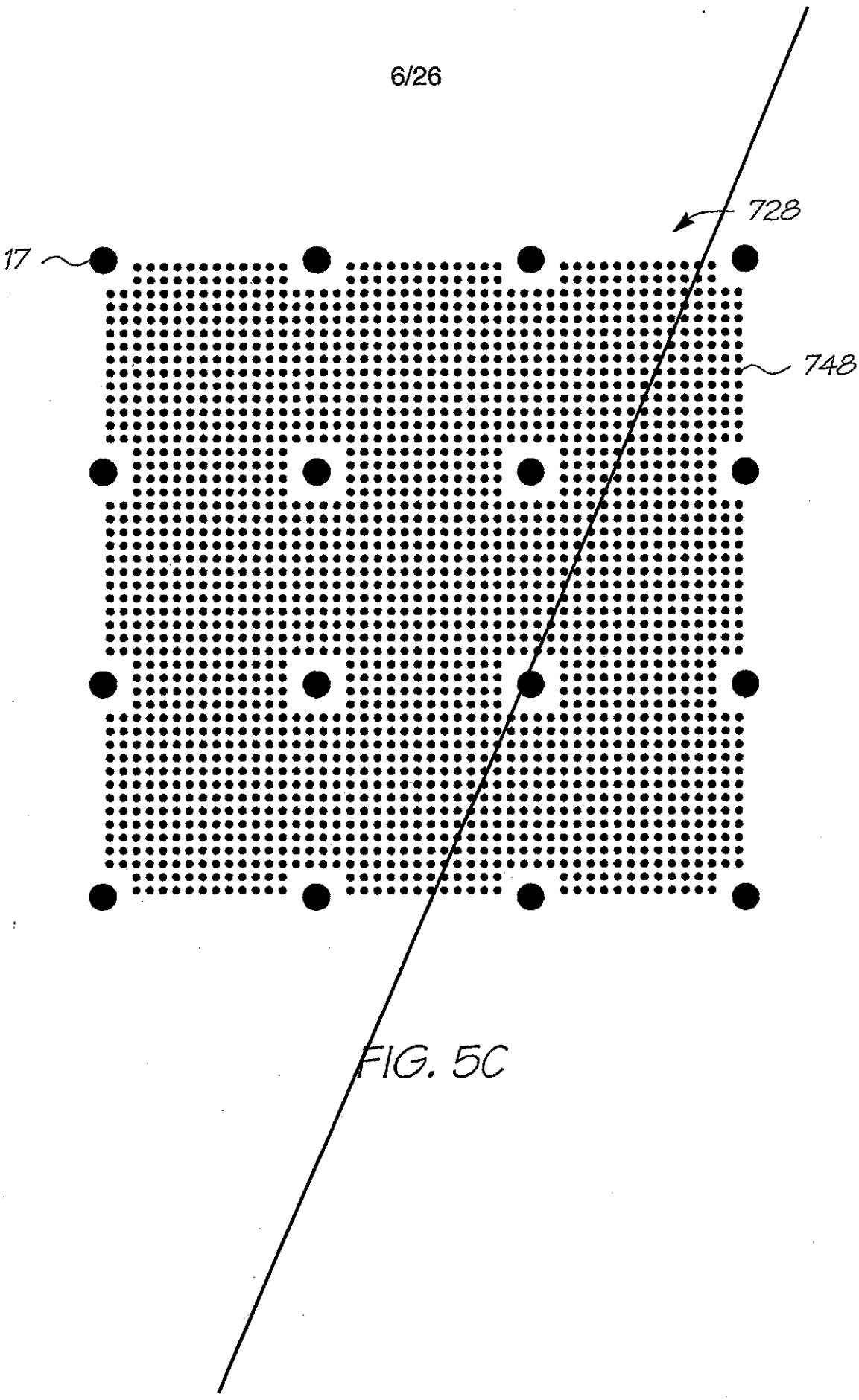



FIG. 5C

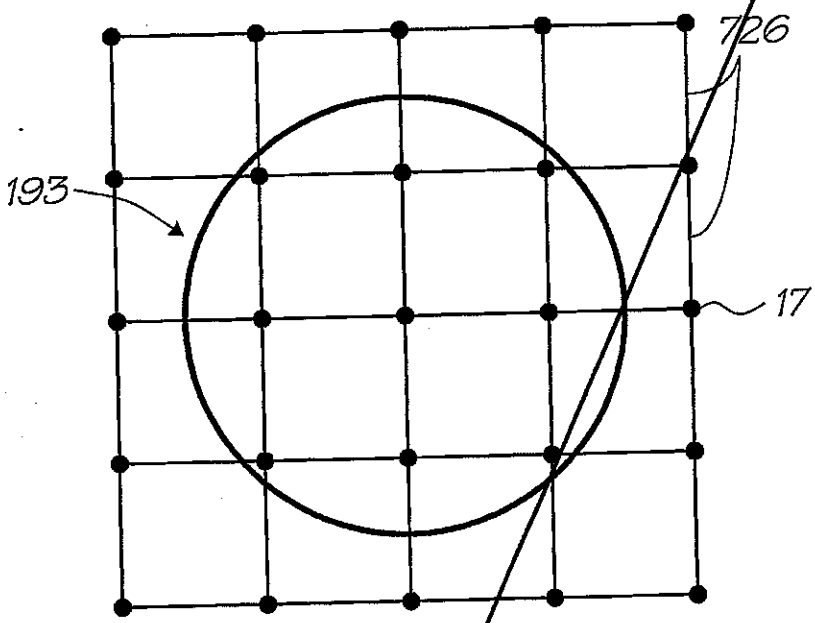



FIG. 5D

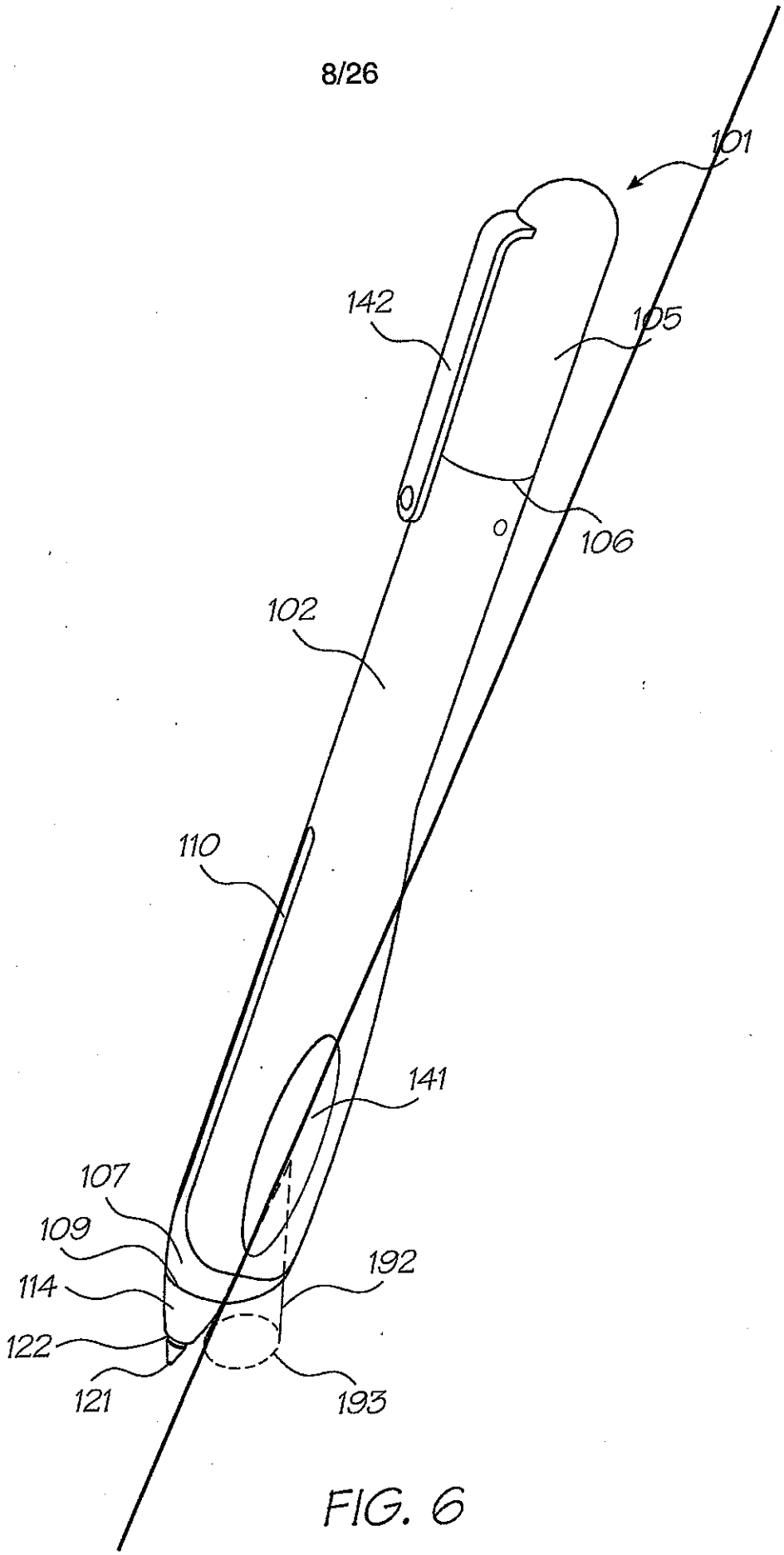



FIG. 6

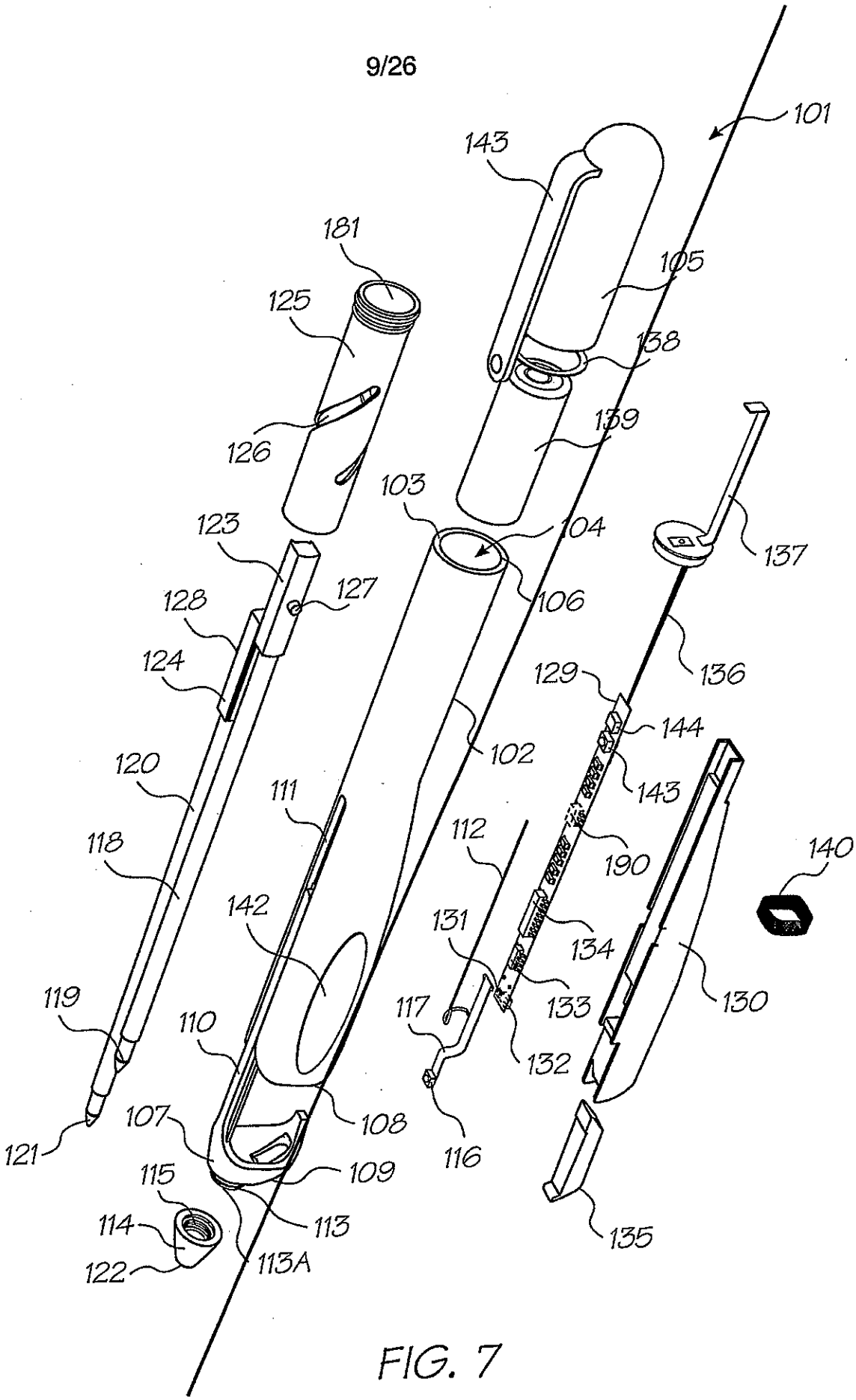

101
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113
122
113A

FIG. 7

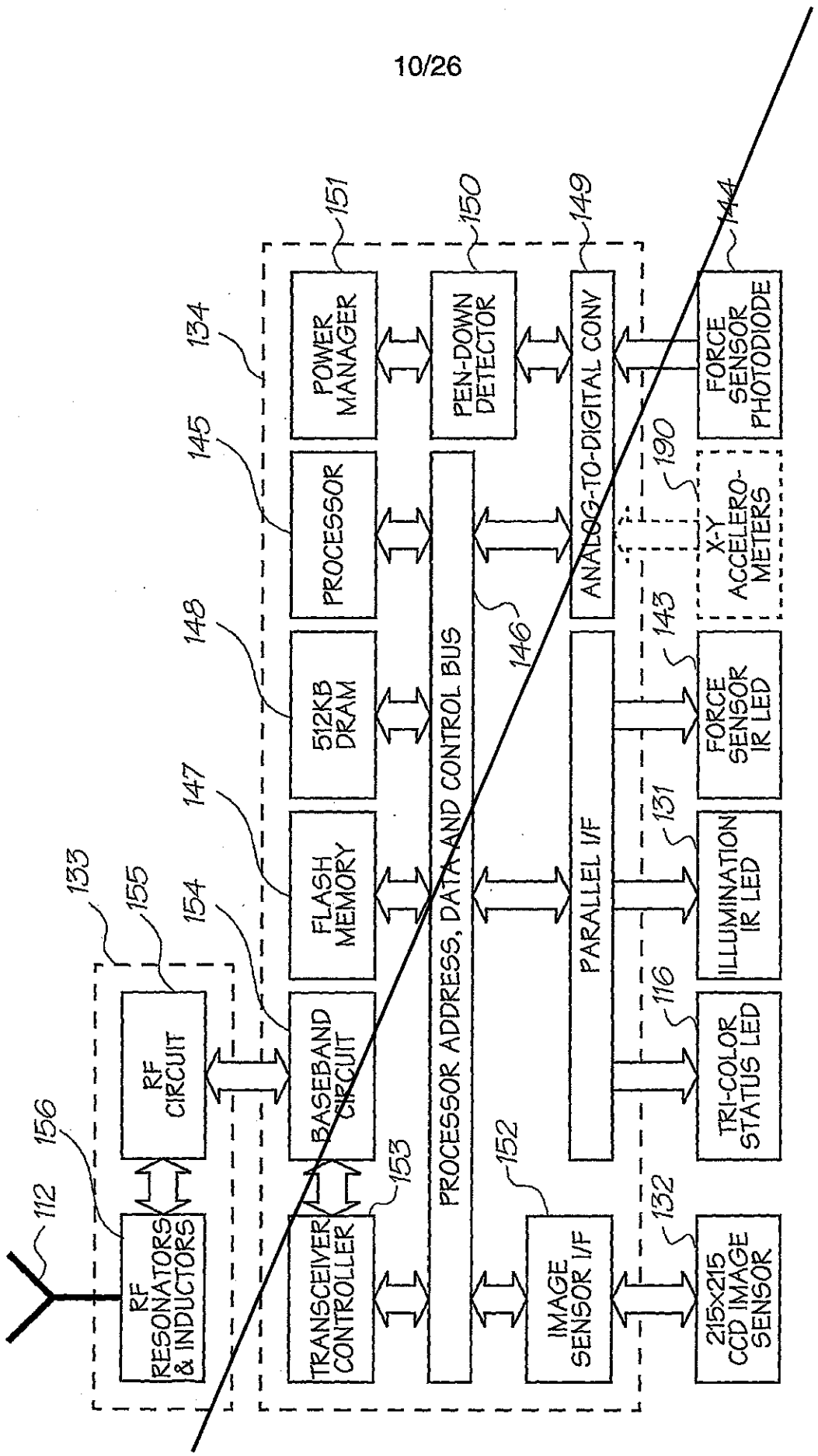

112
RF RESONATORS & INDUCTORS
156
RF CIRCUIT
155
133
TRANSCEIVER CONTROLLER
153
BASEBAND CIRCUIT
154
FLASH MEMORY
147
512KB DRAM
148
PROCESSOR
145
POWER MANAGER
151
134
PROCESSOR ADDRESS, DATA AND CONTROL BUS
146
IMAGE SENSOR I/F
152
PARALLEL I/F
PEN-DOWN DETECTOR
150
ANALOG-TO-DIGITAL CONV
149
215×215 CCD IMAGE SENSOR
132
TRI-COLOR STATUS LED
116
ILLUMINATION IR LED
131
FORCE SENSOR IR LED
143
X-Y ACCELERO-METERS
190
FORCE SENSOR PHOTODIODE
144

FIG. 8

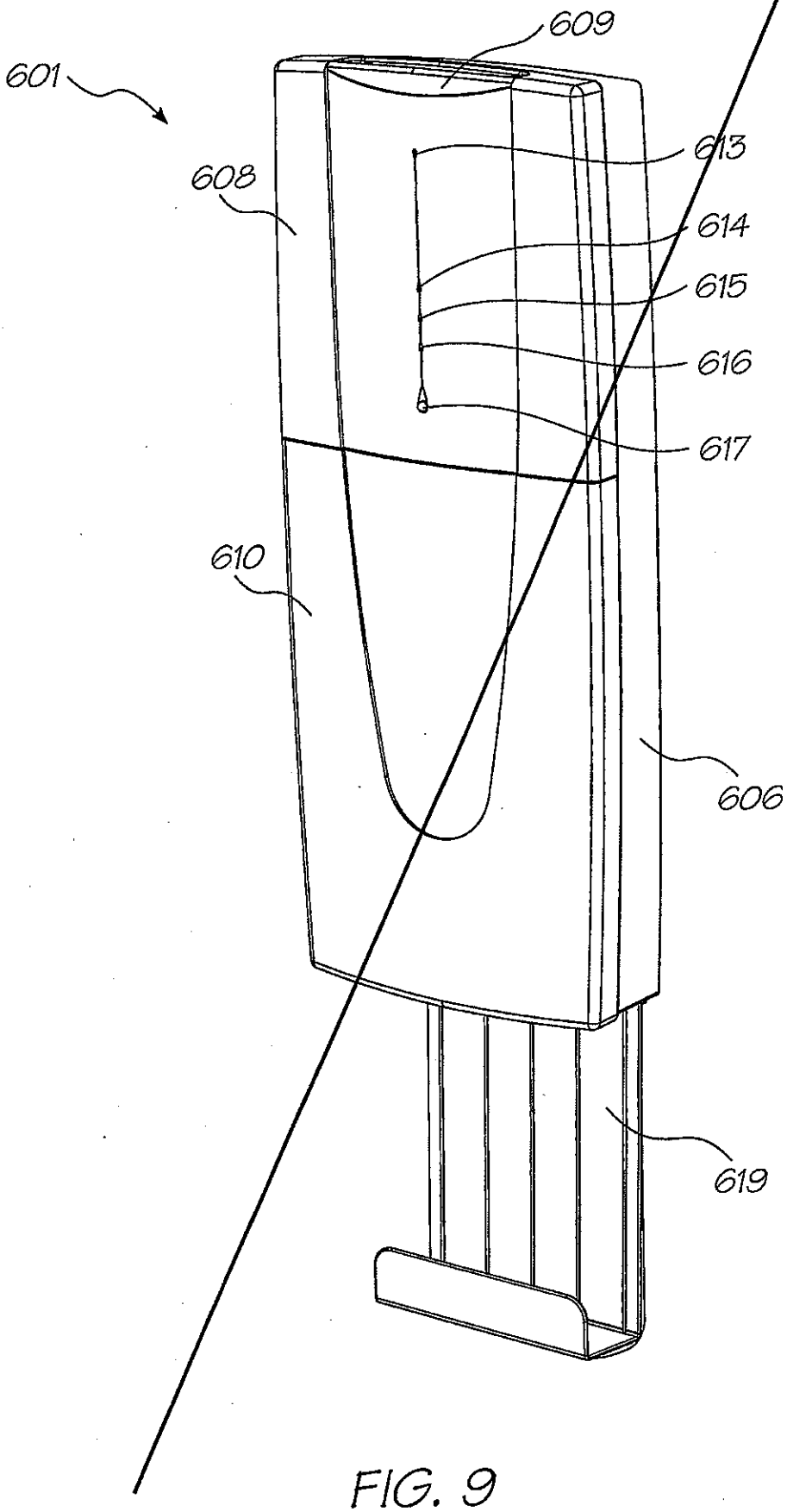



FIG. 9

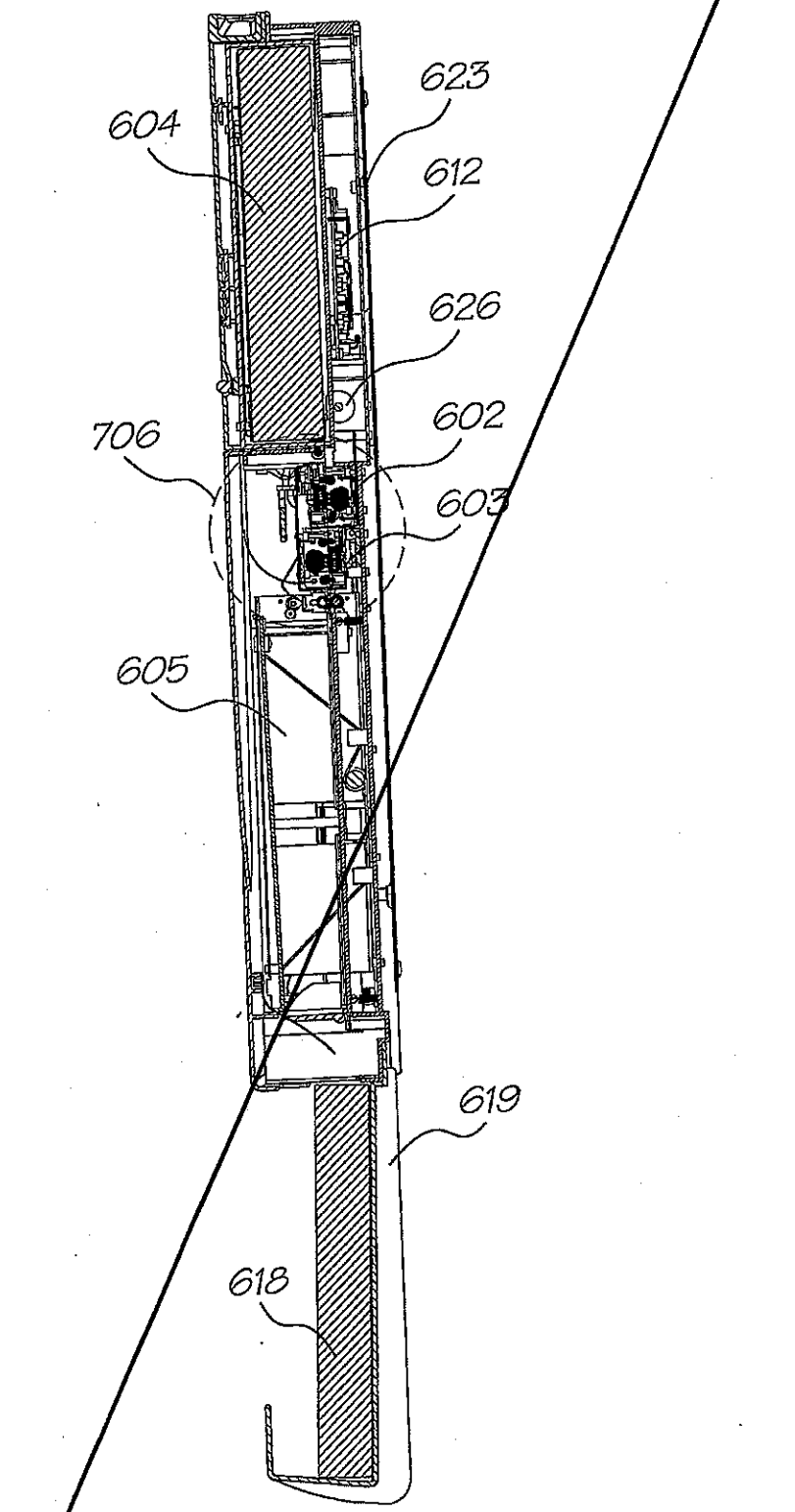



FIG. 10

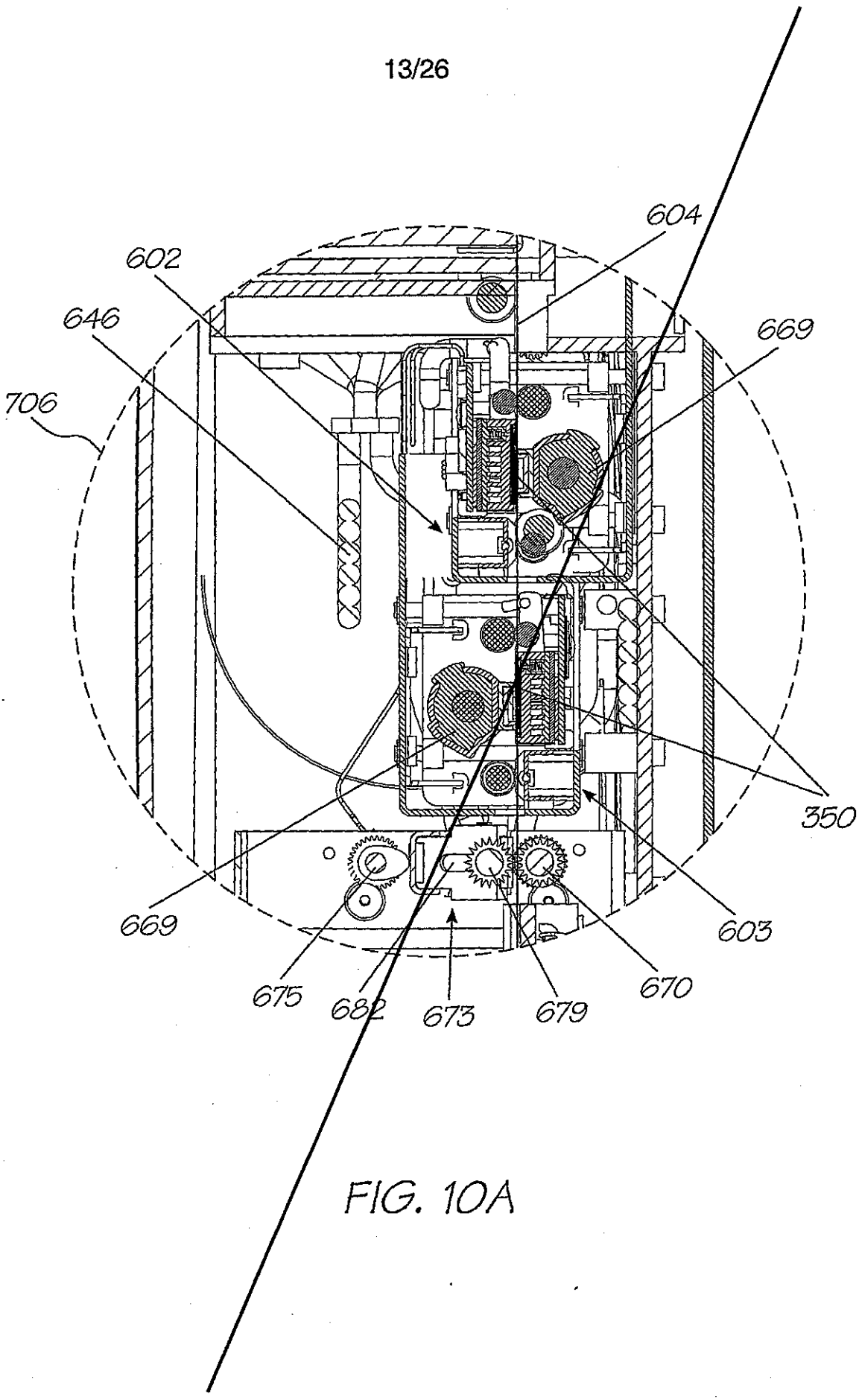



FIG. 10A

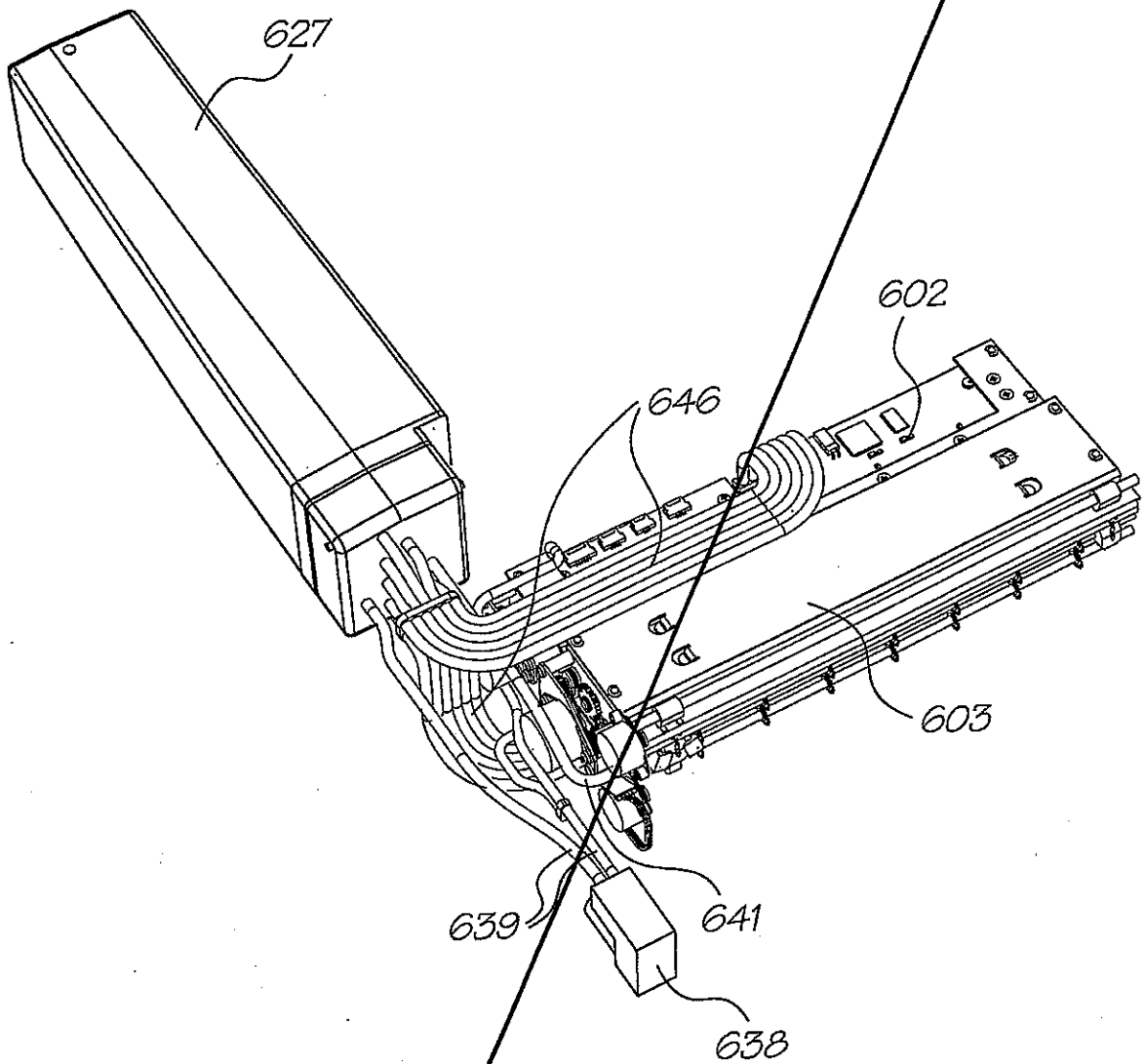



FIG. 11

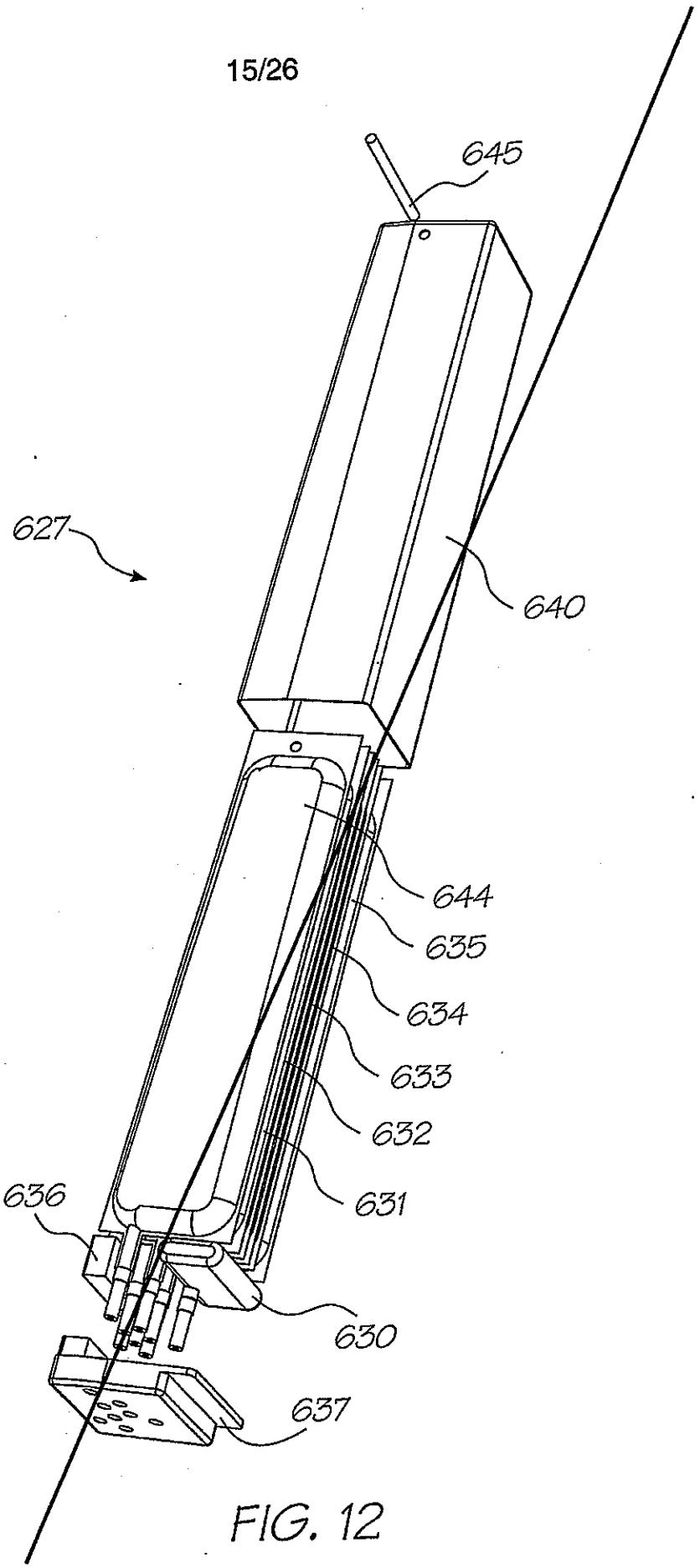



FIG. 12

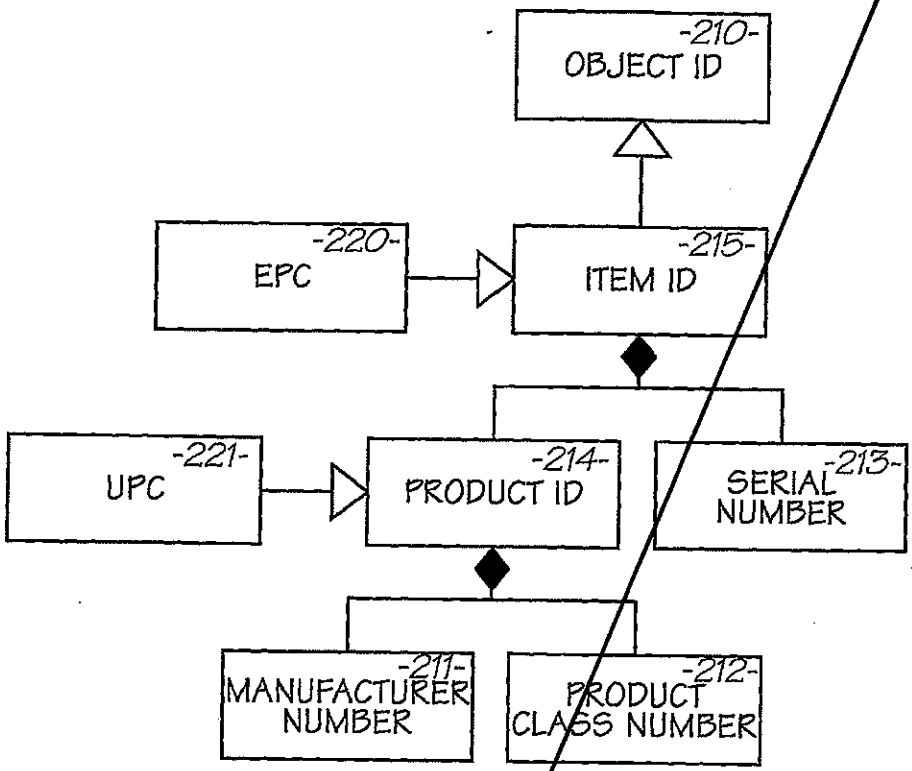

OBJECT ID
-210-
EPC
-220-
ITEM ID
-215-
UPC
-221-
PRODUCT ID
-214-
SERIAL NUMBER
-213-
MANUFACTURER NUMBER
-211-
PRODUCT CLASS NUMBER
-212-

FIG. 13

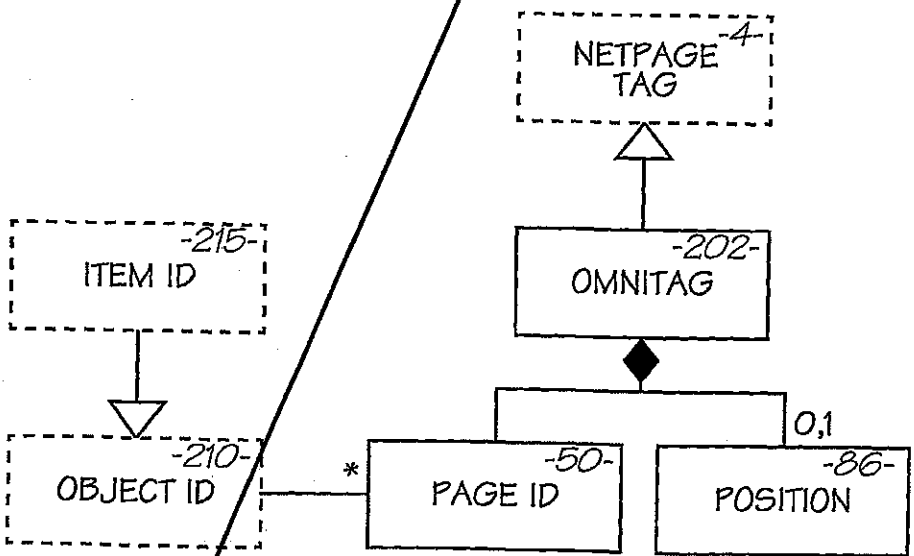

NETPAGE TAG
-4-
ITEM ID
-215-
OMNITAG
-202-
OBJECT ID
-210-
*
PAGE ID
-50-
0,1
POSITION
-86-

FIG. 14

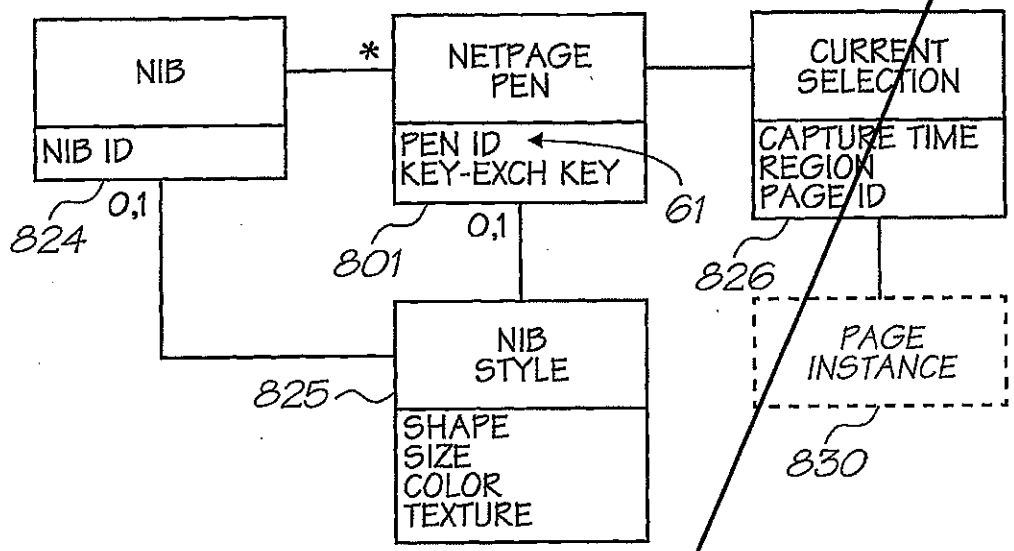

NIB
NIB ID
*
NETPAGE PEN
PEN ID
KEY-EXCH KEY
CURRENT SELECTION
CAPTURE TIME
REGION
PAGE ID
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824
801
0,1
61
826
NIB STYLE
825
SHAPE
SIZE
COLOR
TEXTURE
PAGE INSTANCE
830

FIG. 15

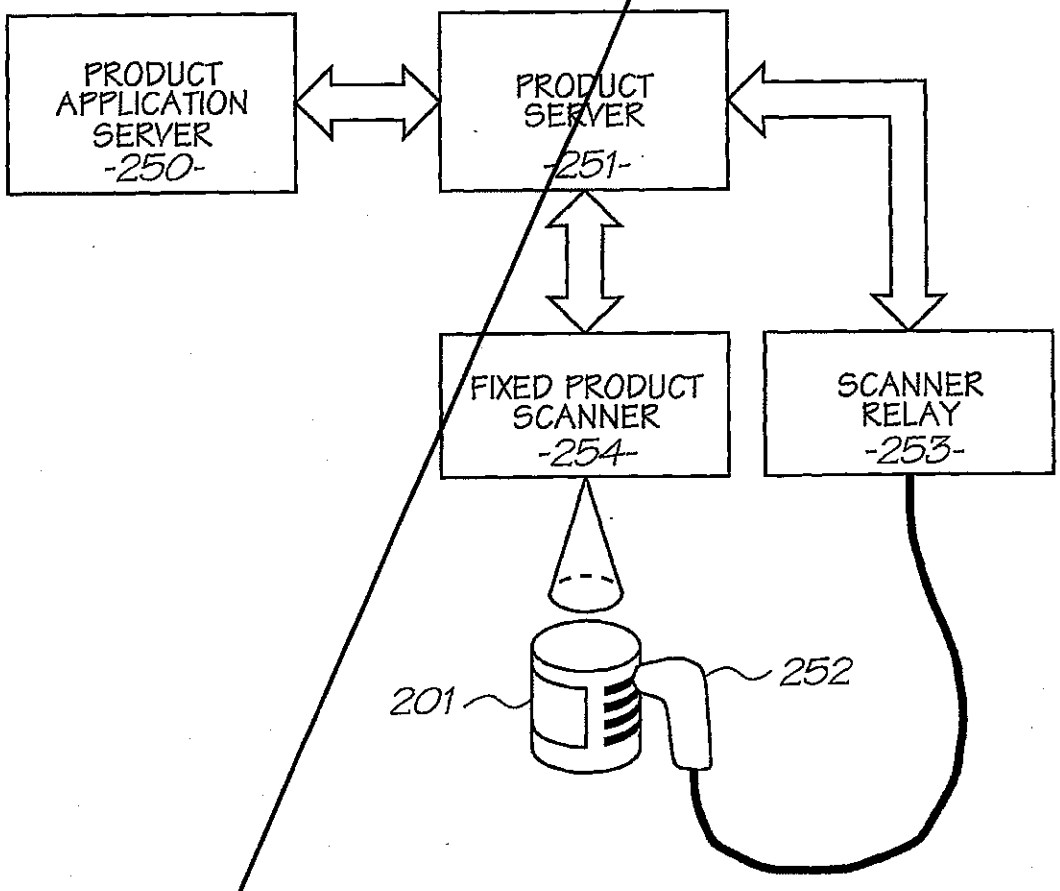

PRODUCT APPLICATION SERVER -250-
PRODUCT SERVER -251-
FIXED PRODUCT SCANNER -254-
SCANNER RELAY -253-
201
252

FIG. 16

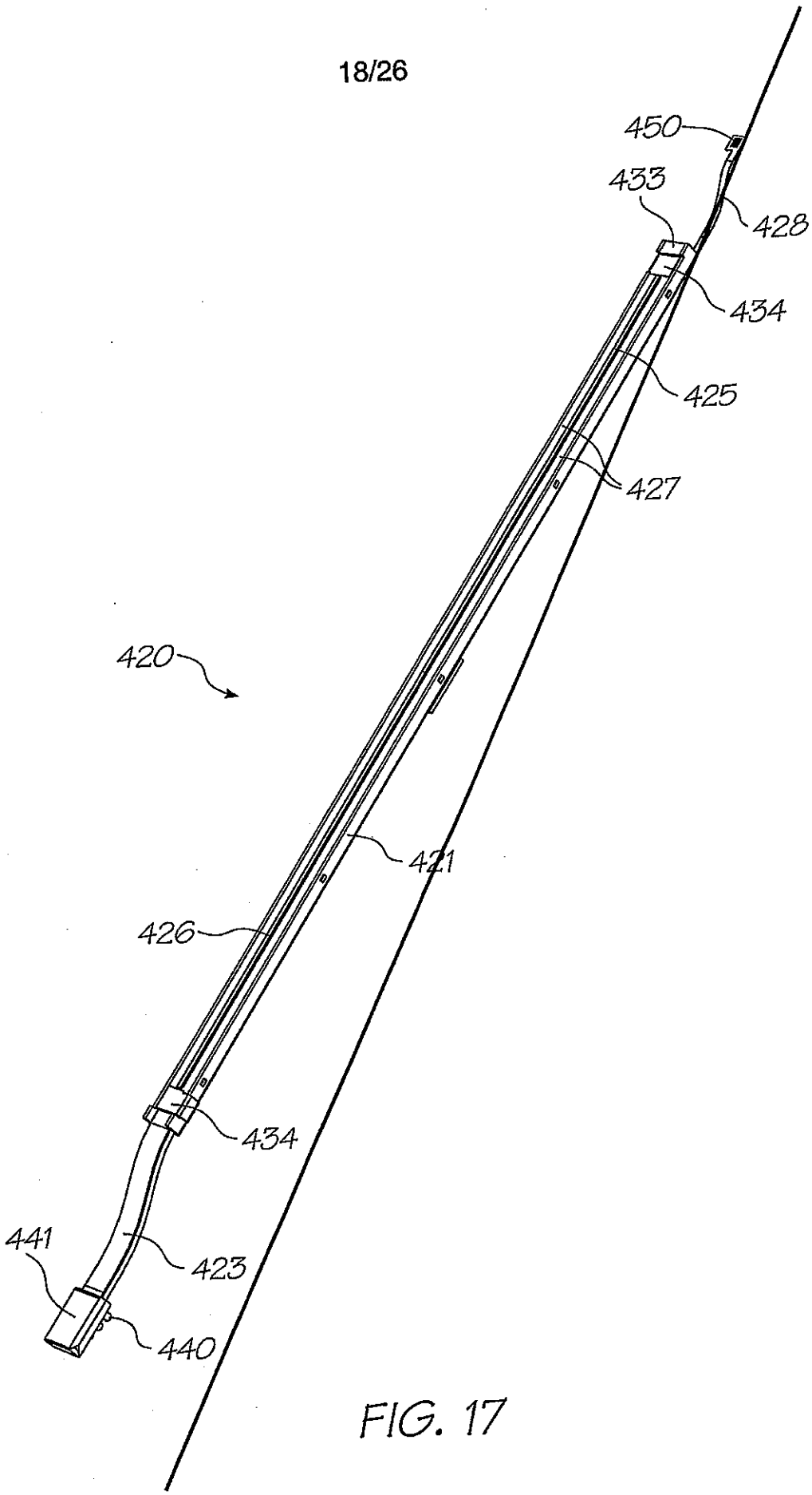



FIG. 17

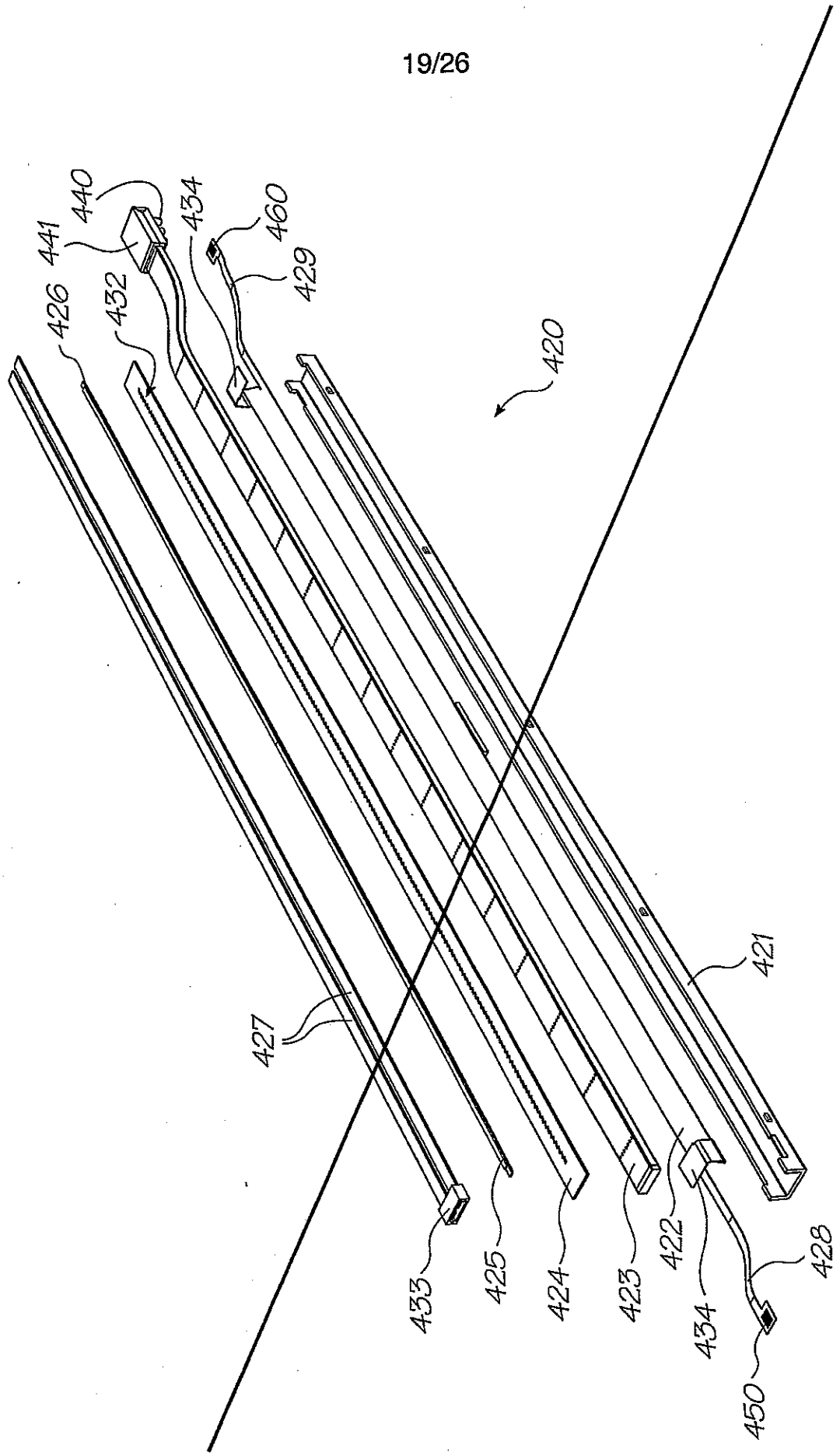

440
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460
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422
434
428
450

FIG. 18

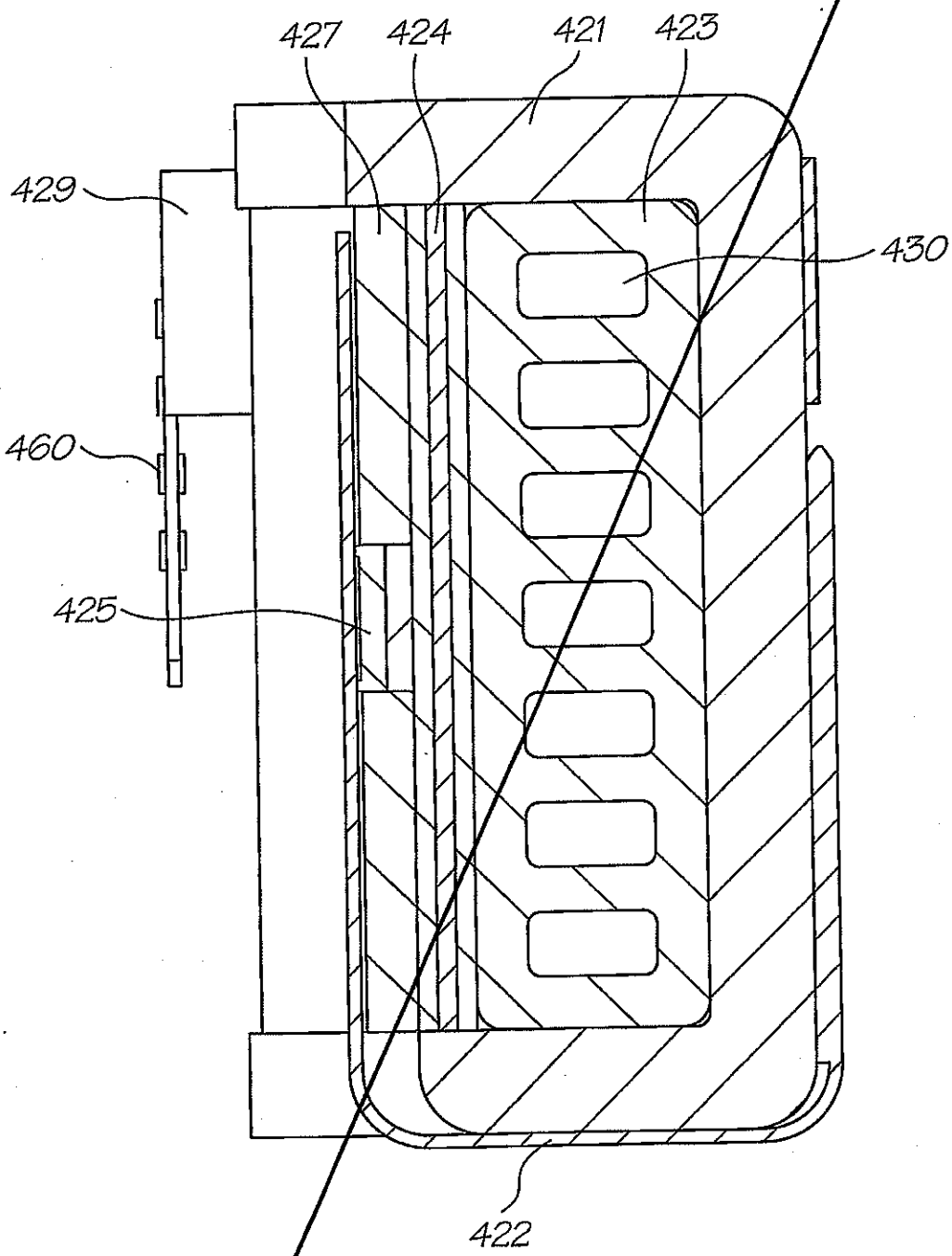



FIG. 19

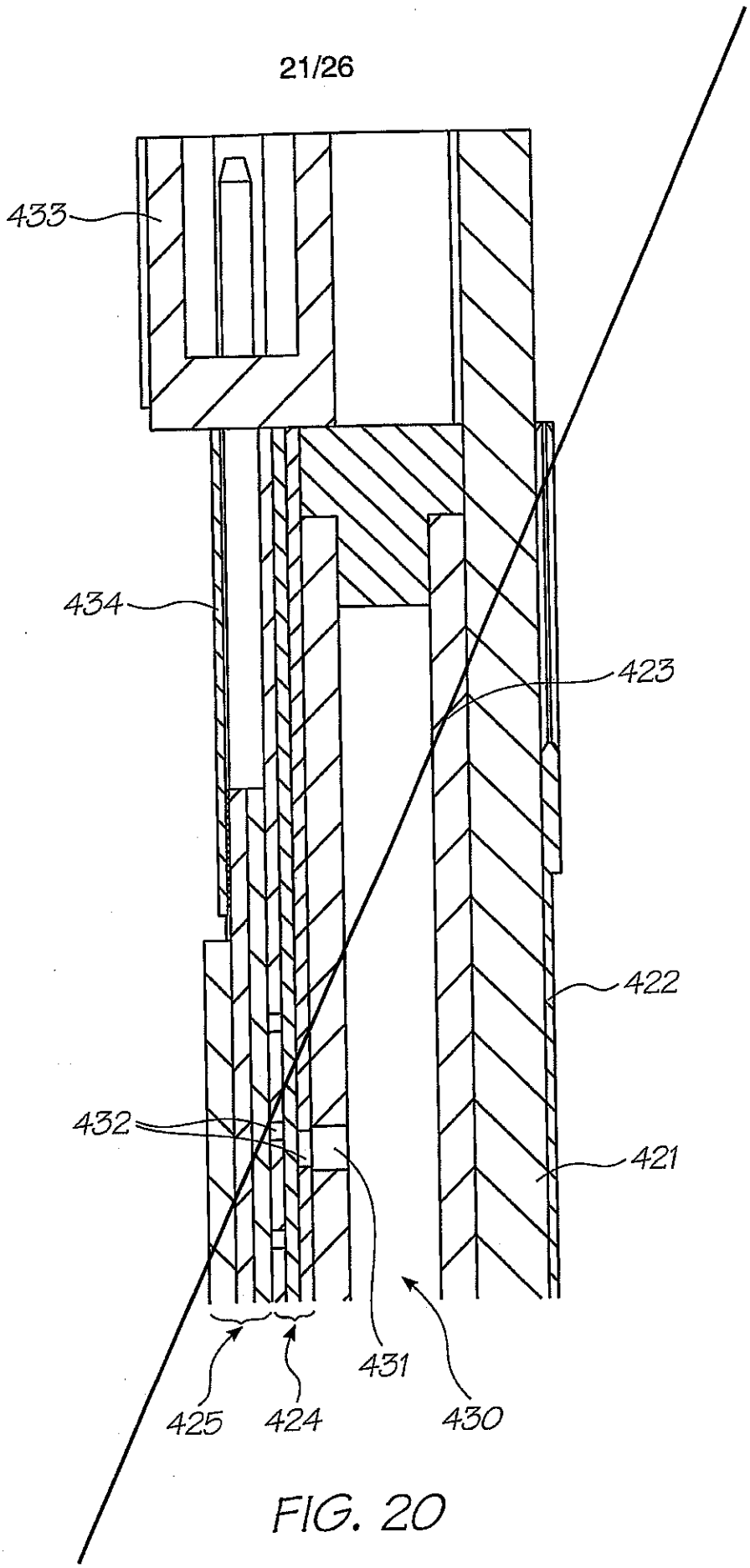



FIG. 20

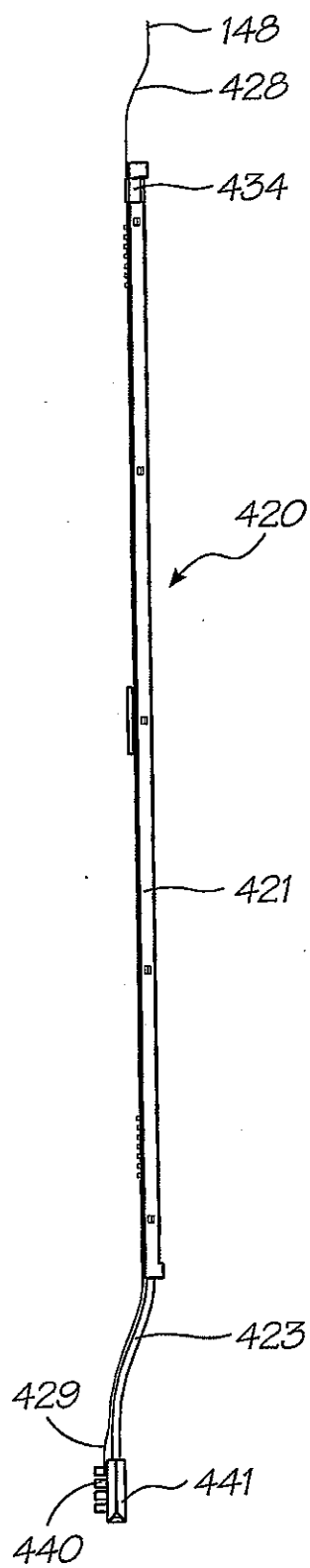



FIG. 21(A)

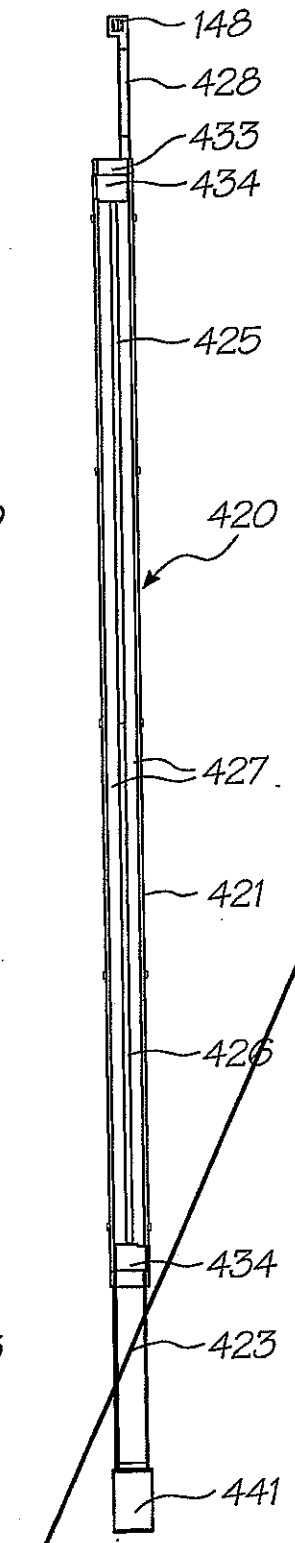



FIG. 21(B)

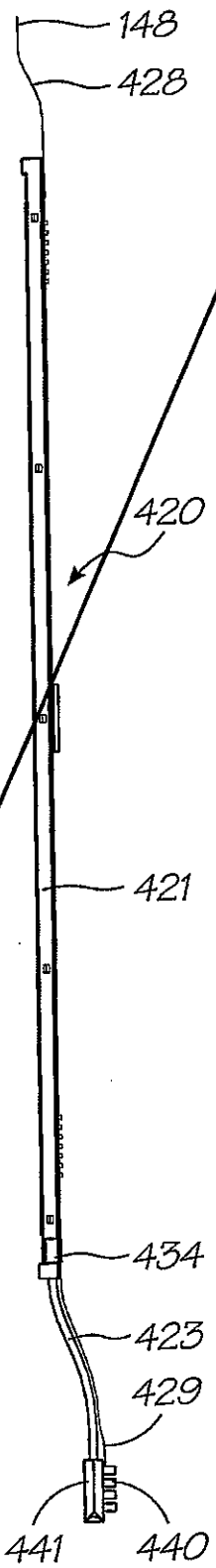



FIG. 21(C)

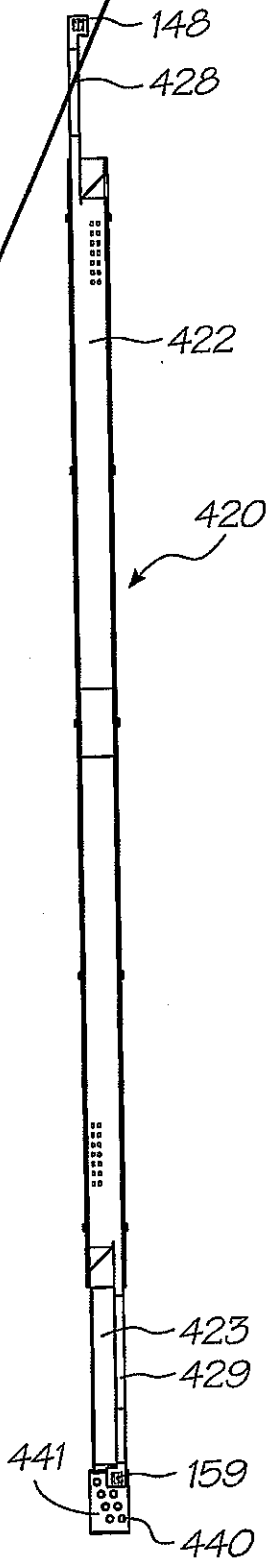



FIG. 21(D)

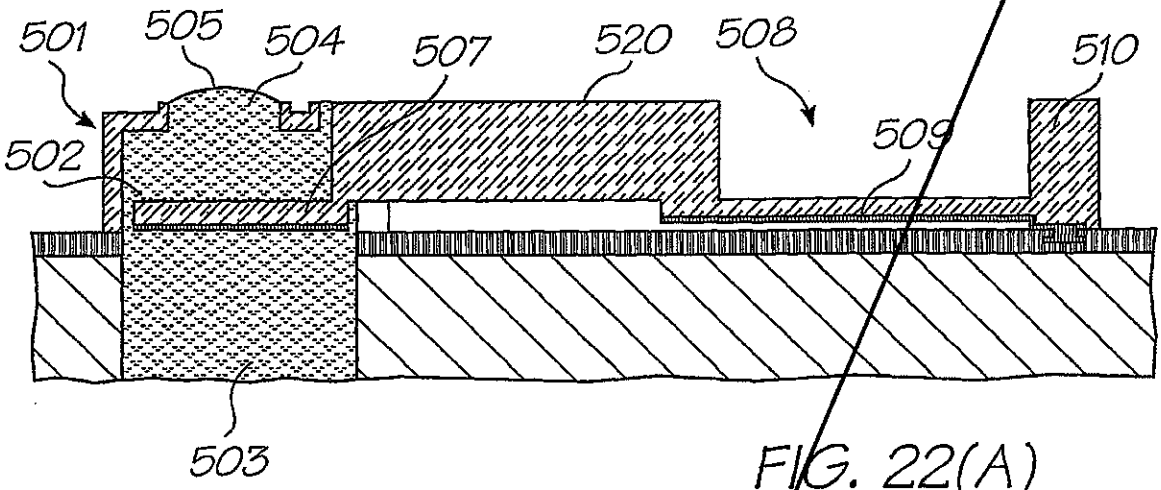



FIG. 22(A)

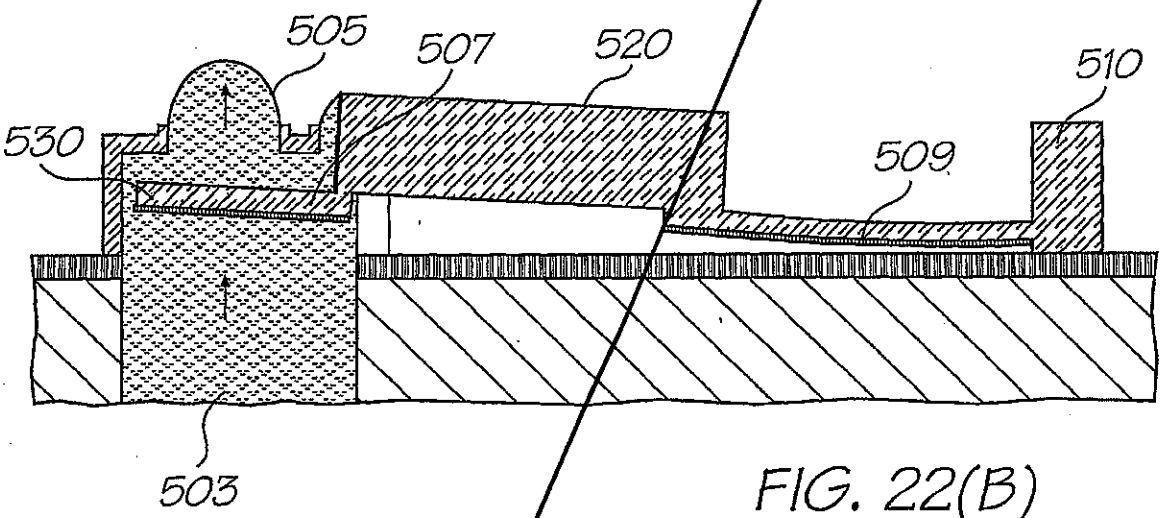



FIG. 22(B)

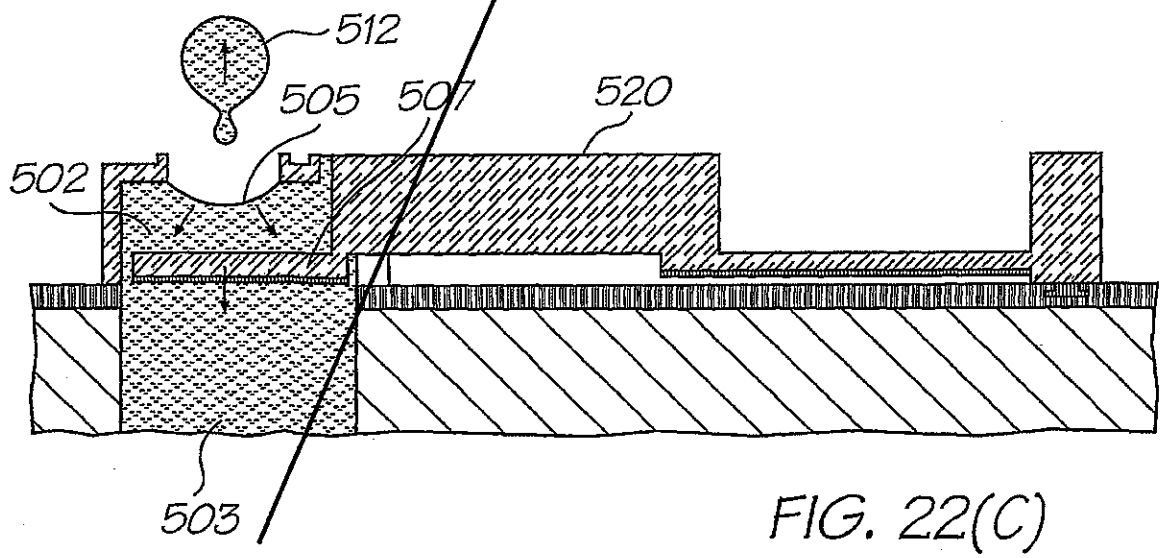



FIG. 22(C)

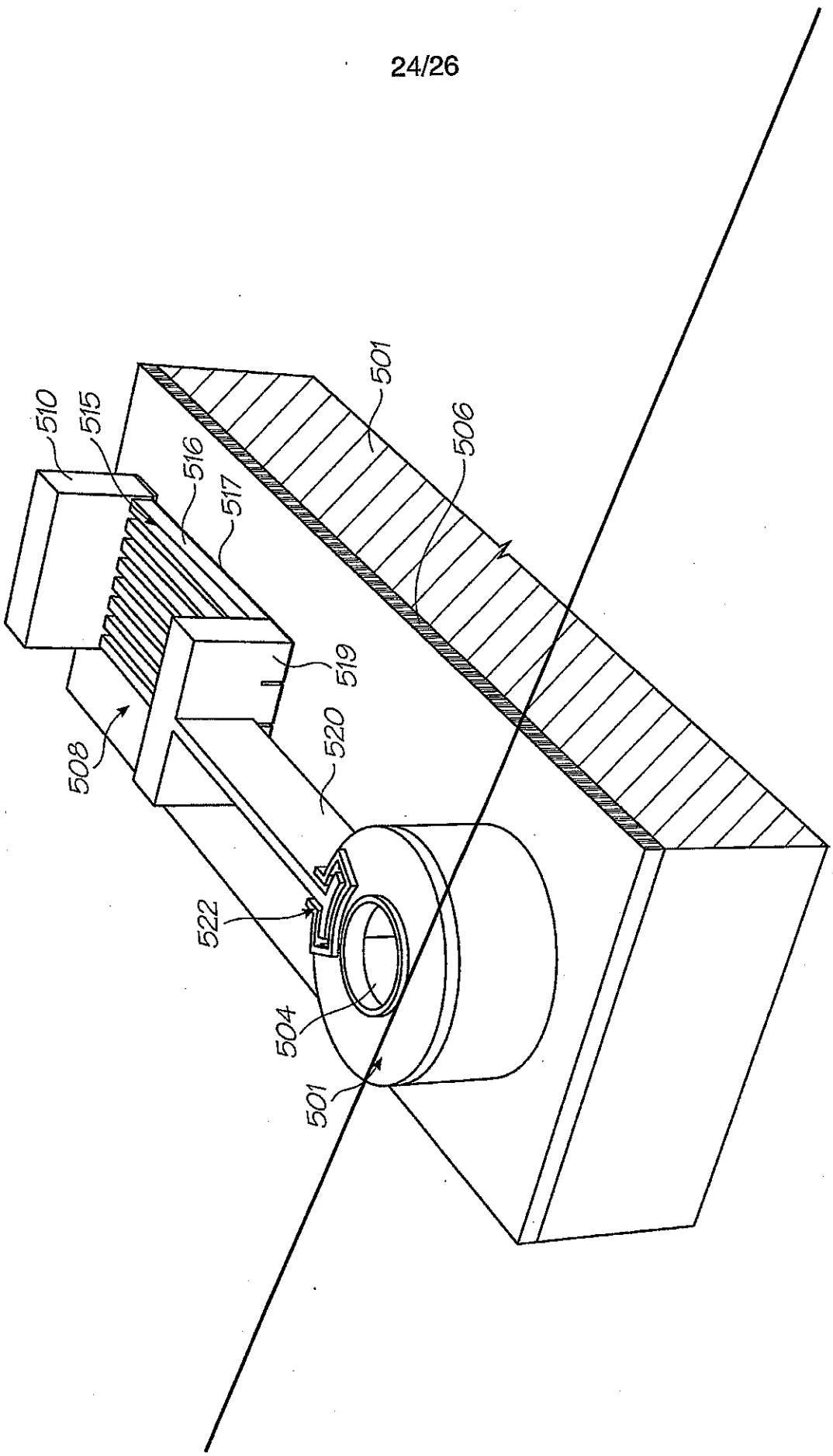



FIG. 23

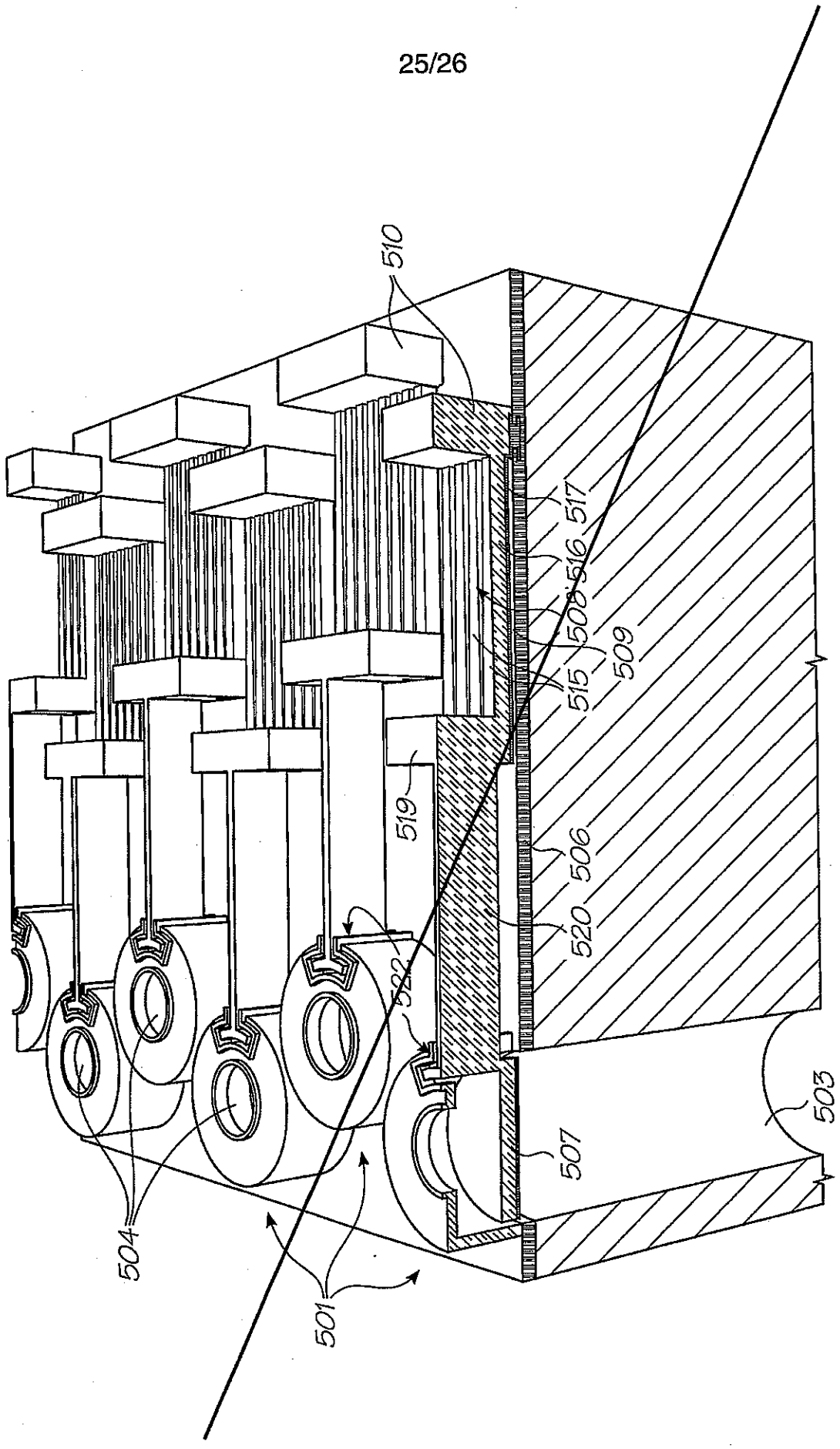



FIG. 24

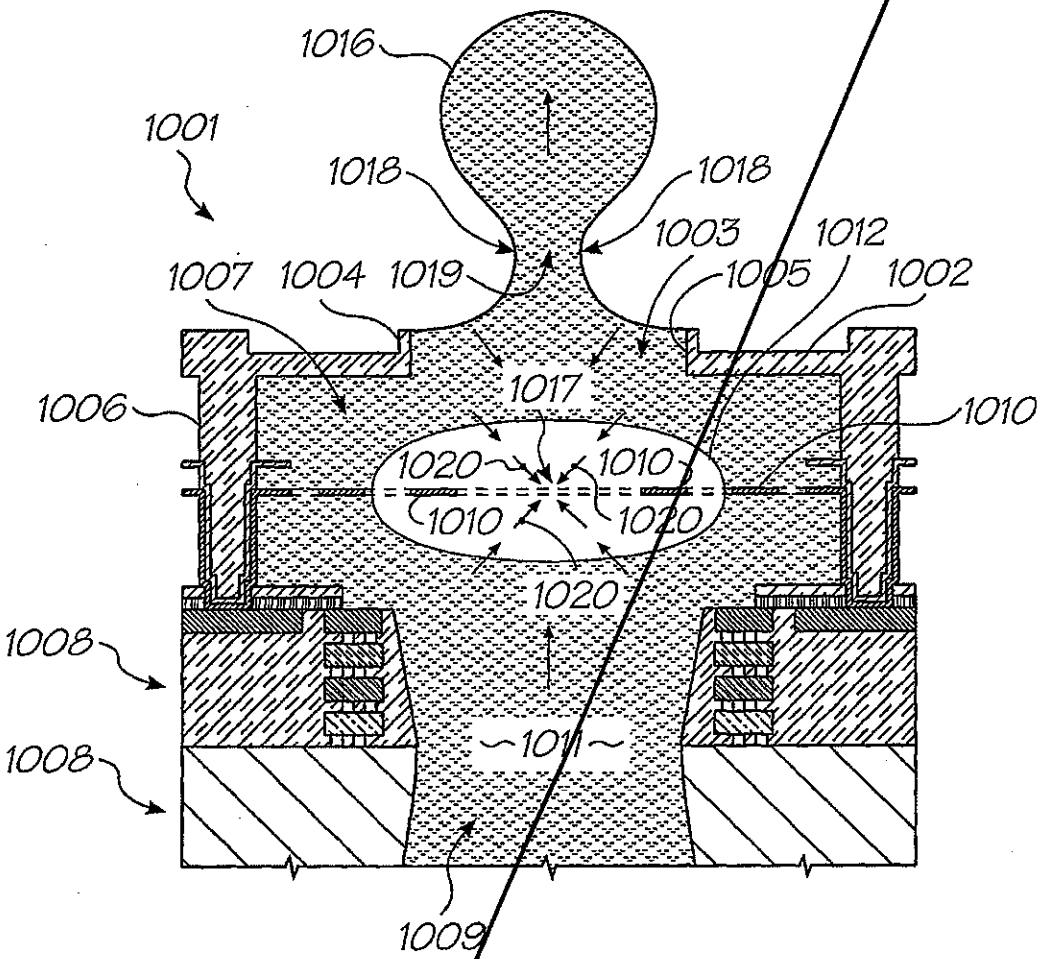

1016
1001
1018
1018
1003
1012
1007
1004
1019
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1002
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1010
1020
1010
1010
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1020
1008
1011
1008
1009

FIG. 25

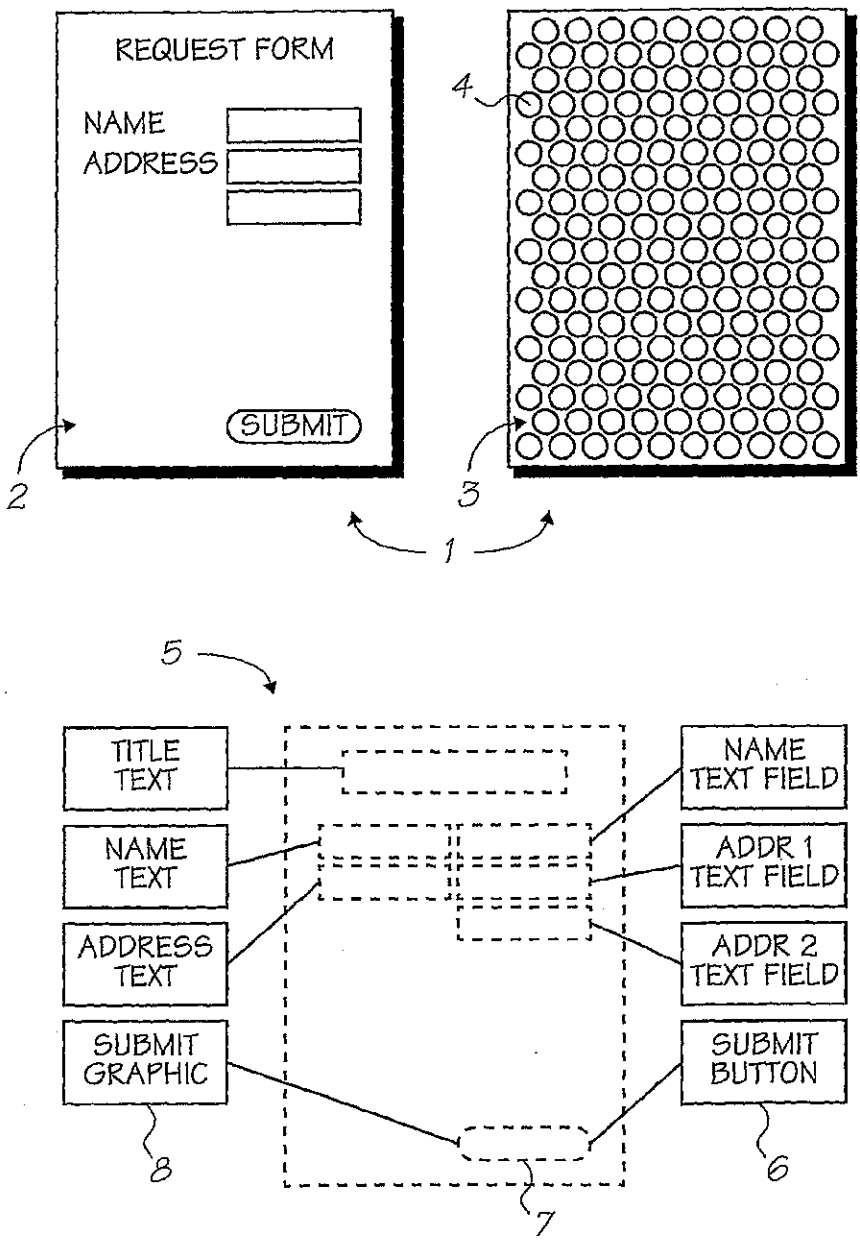

REQUEST FORM
NAME
ADDRESS
SUBMIT
2
4
3
1
5
TITLE TEXT
NAME TEXT
ADDRESS TEXT
SUBMIT GRAPHIC
8
NAME TEXT FIELD
ADDR 1 TEXT FIELD
ADDR 2 TEXT FIELD
SUBMIT BUTTON
6
7

FIG. 1

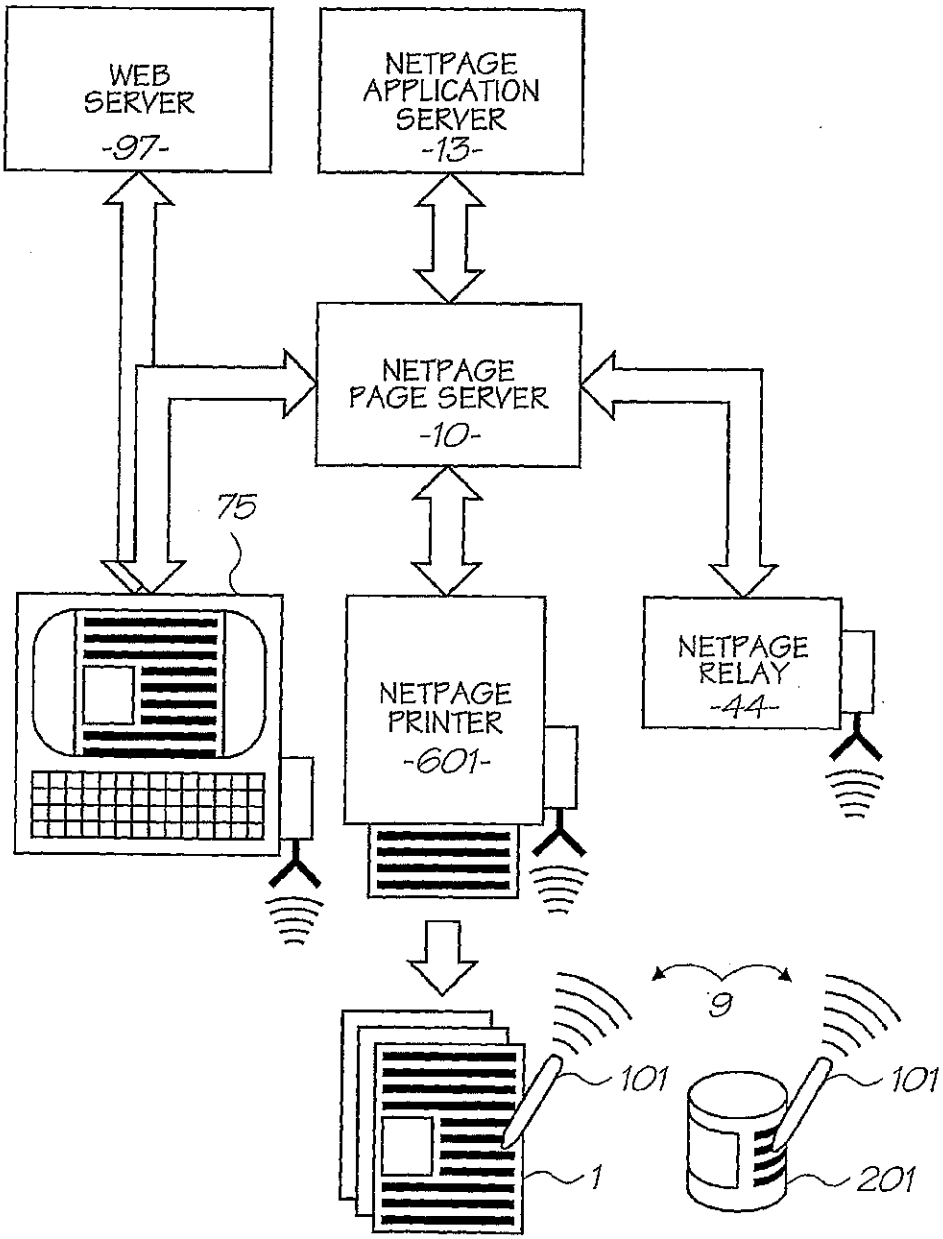

WEB SERVER
-97-
NETPAGE APPLICATION SERVER
-13-
NETPAGE PAGE SERVER
-10-
75
NETPAGE PRINTER
-601-
NETPAGE RELAY
-44-
9
101
101
1
201

FIG. 2

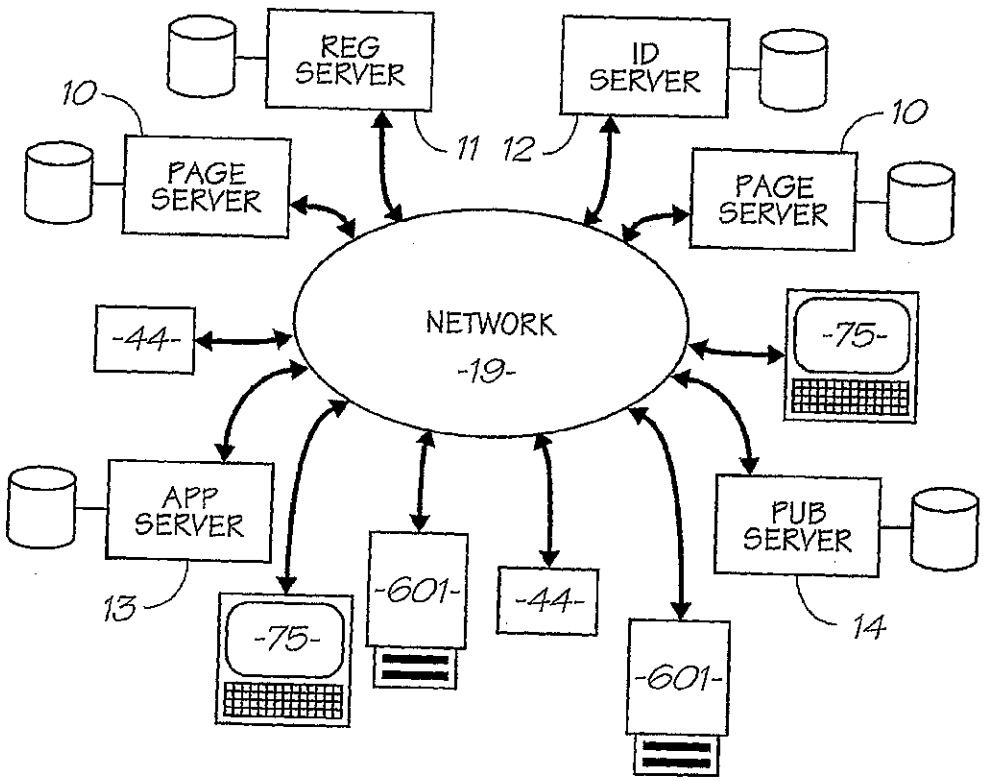

REG SERVER
ID SERVER
10
PAGE SERVER
11
12
10
PAGE SERVER
NETWORK
-19-
-44-
-75-
APP SERVER
13
-601-
-75-
-44-
-601-
PUB SERVER
14

FIG. 3

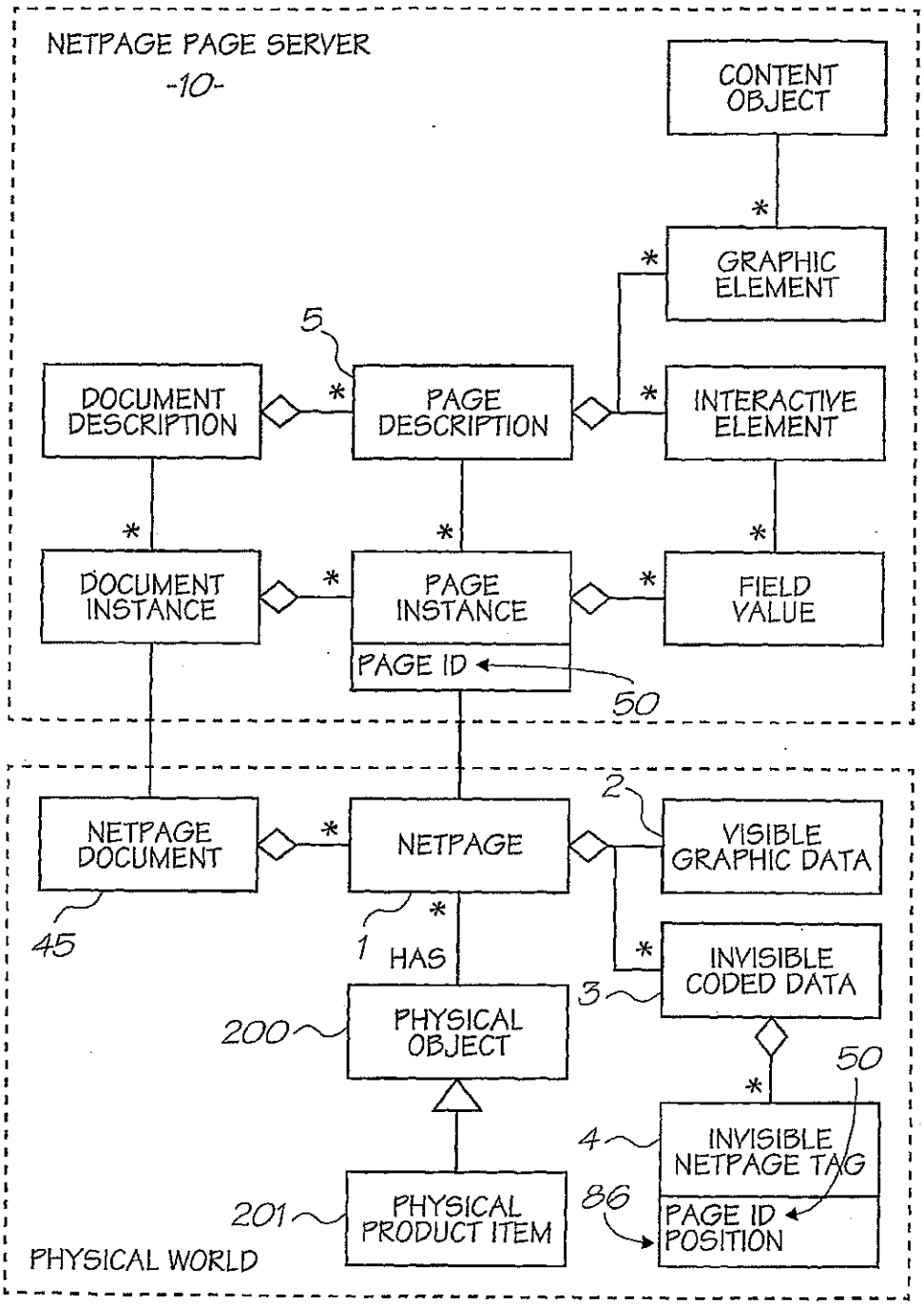

NETPAGE PAGE SERVER
-10-
CONTENT OBJECT
GRAPHIC ELEMENT
INTERACTIVE ELEMENT
FIELD VALUE
DOCUMENT DESCRIPTION
PAGE DESCRIPTION
DOCUMENT INSTANCE
PAGE INSTANCE
PAGE ID
50
5
NETPAGE DOCUMENT
NETPAGE
VISIBLE GRAPHIC DATA
2
45
1
HAS
INVISIBLE CODED DATA
3
200
PHYSICAL OBJECT
50
4
INVISIBLE NETPAGE TAG
86
PAGE ID
POSITION
201
PHYSICAL PRODUCT ITEM
PHYSICAL WORLD

FIG. 4

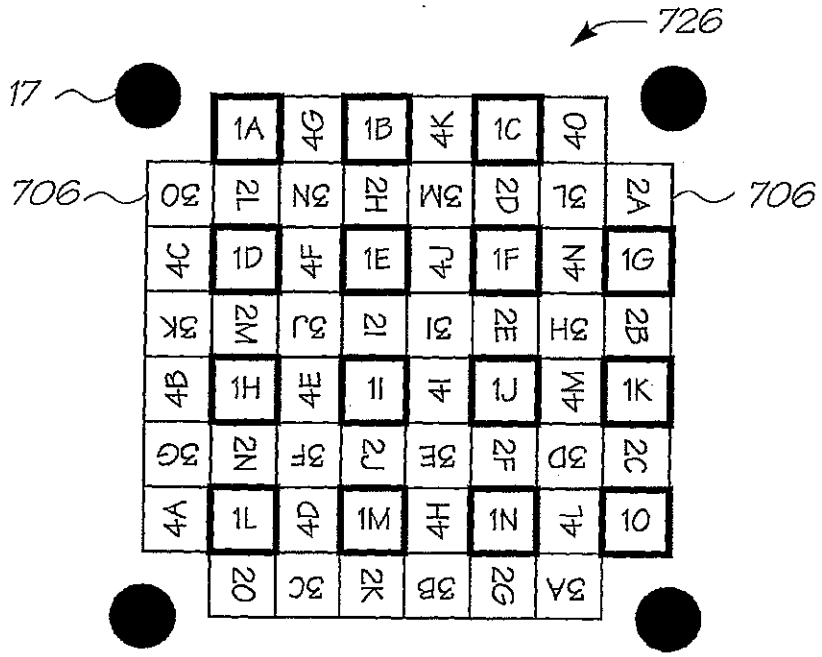

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FIG. 5A

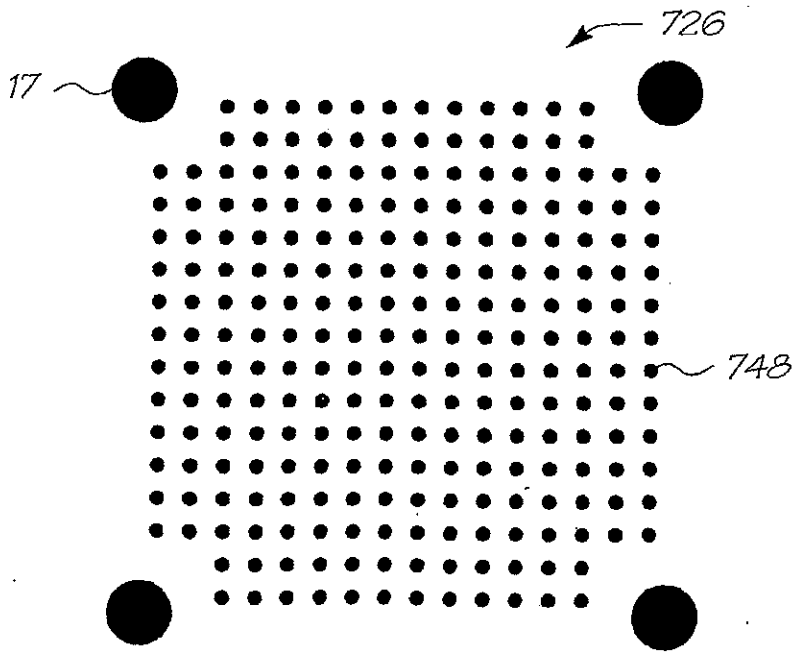

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FIG. 5B

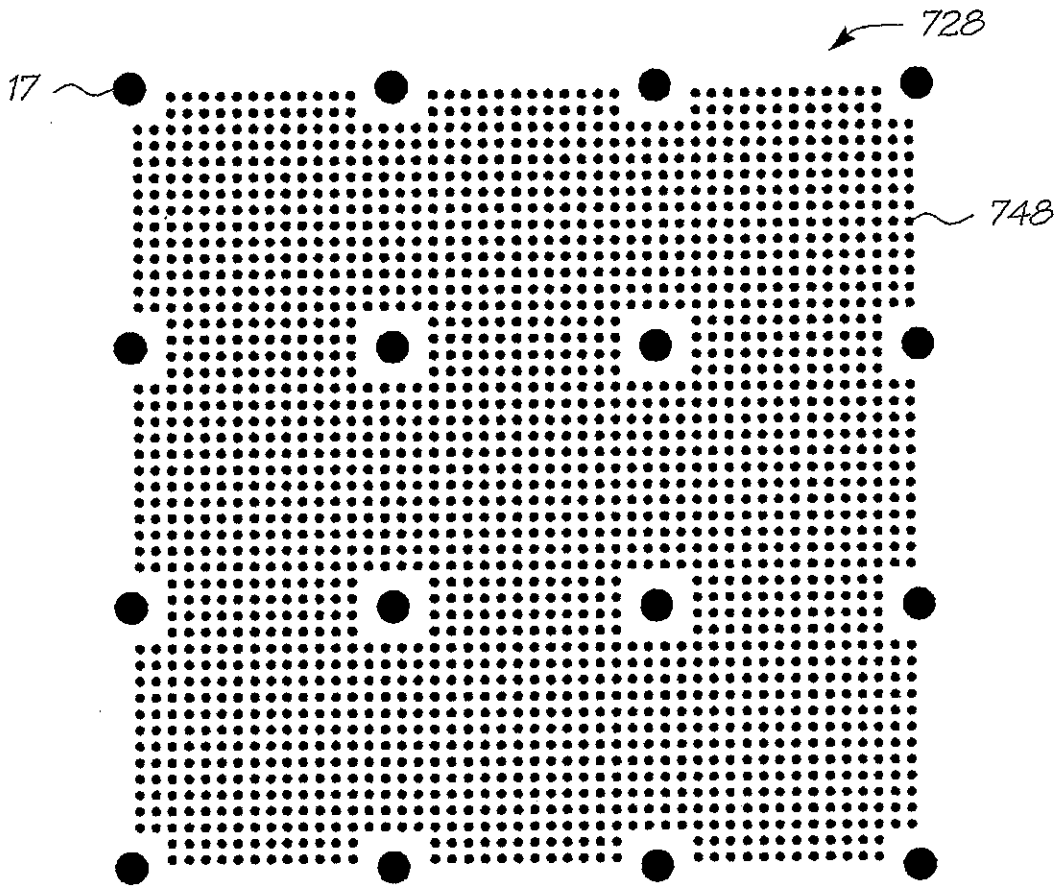



FIG. 5C

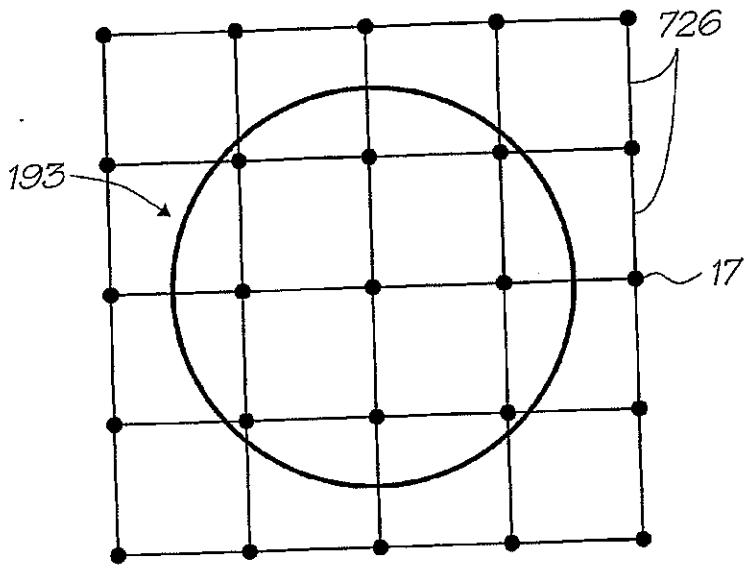



FIG. 5D

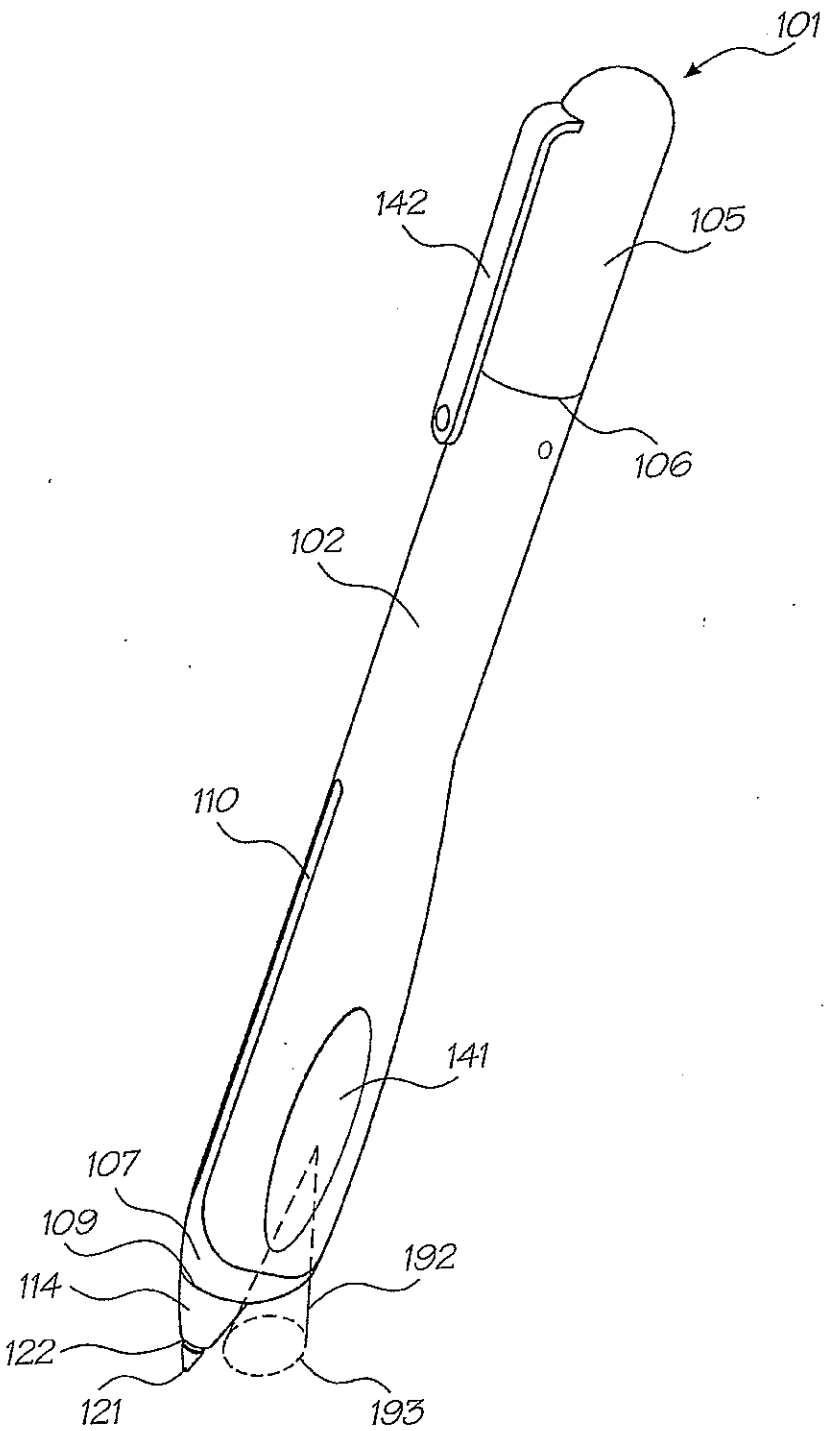



FIG. 6

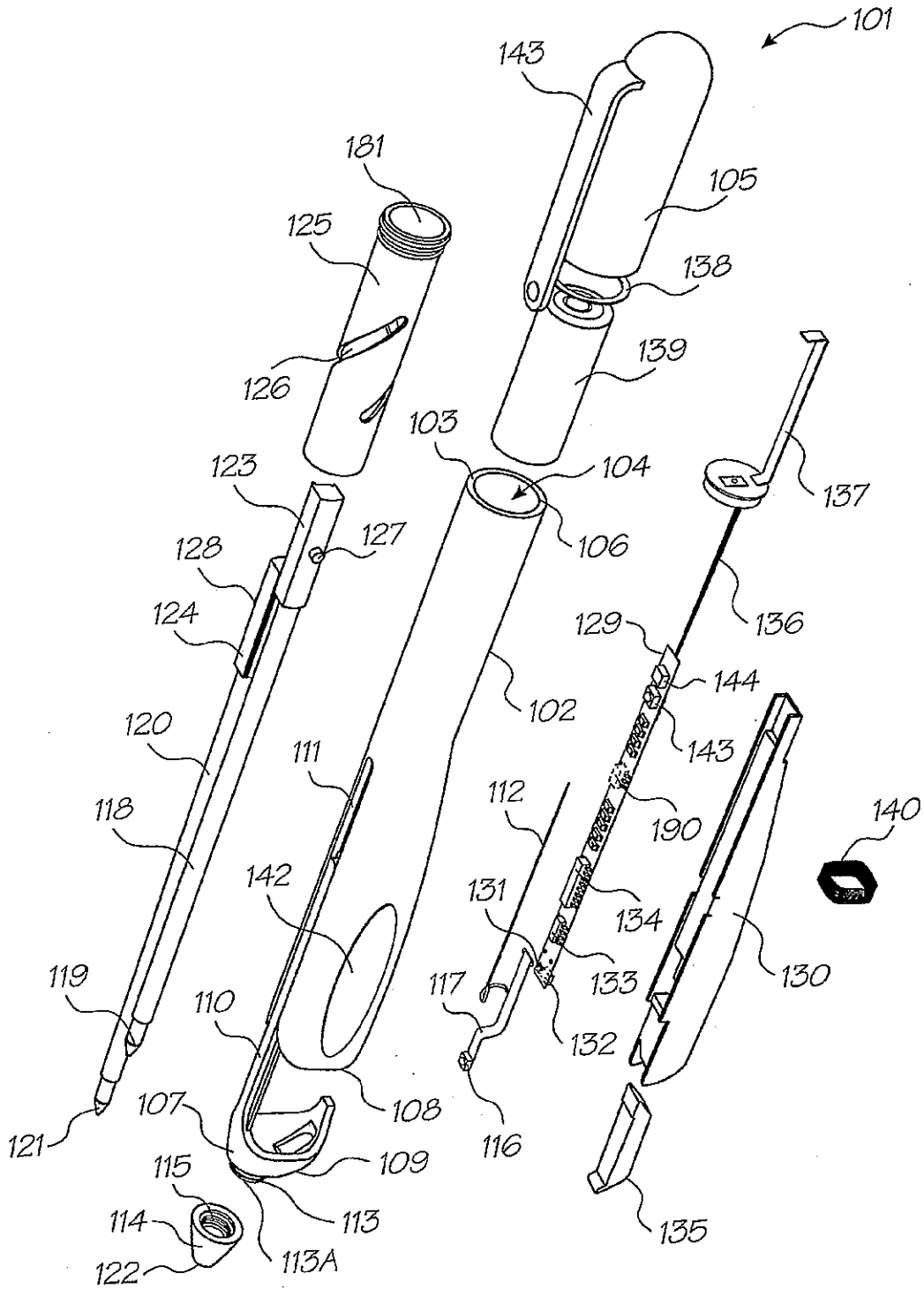

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113A

FIG. 7

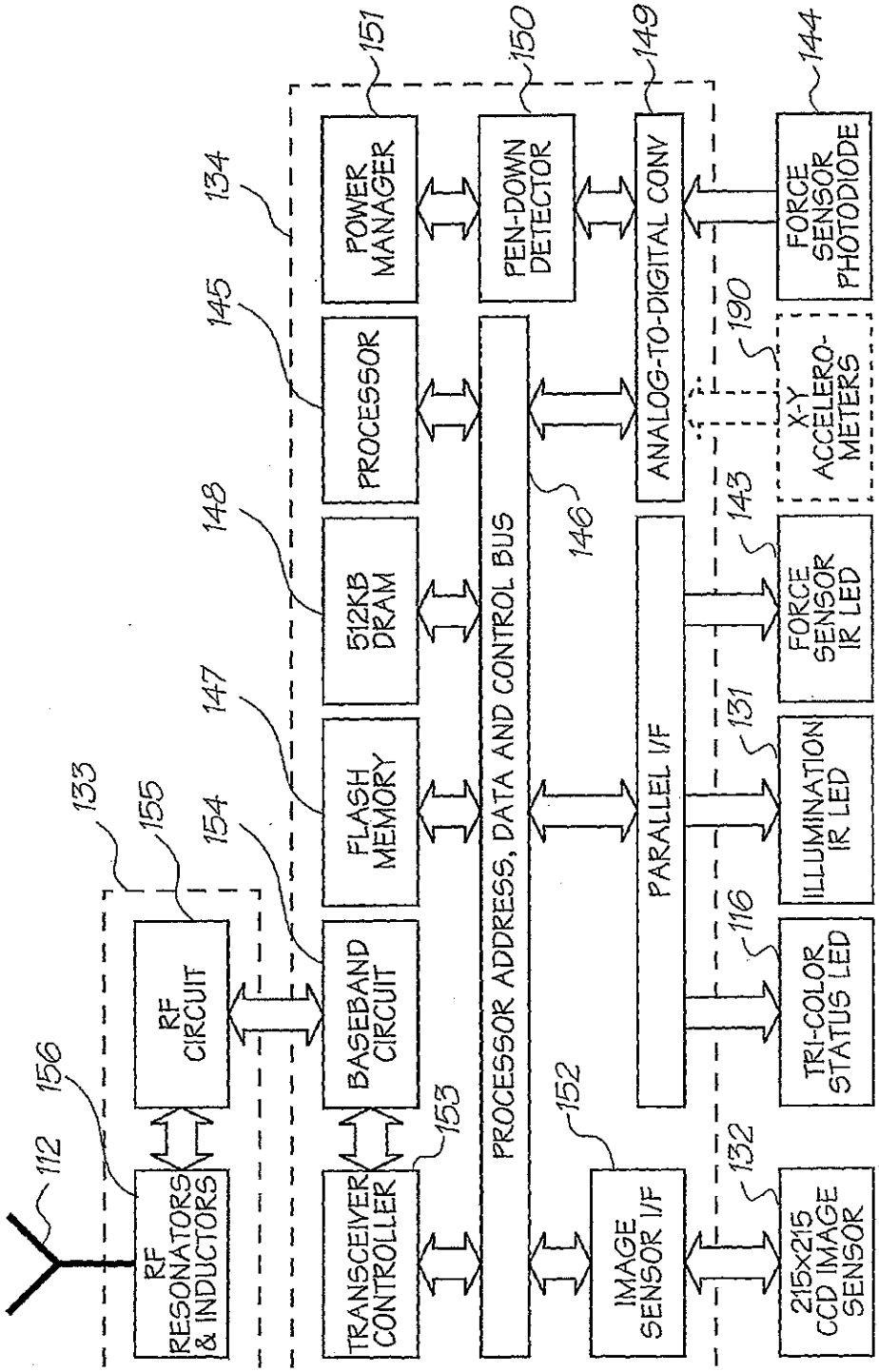

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116
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152
146
RF RESONATORS & INDUCTORS
RF CIRCUIT
BASEBAND CIRCUIT
FLASH MEMORY
512KB DRAM
PROCESSOR
POWER MANAGER
PEN-DOWN DETECTOR
ANALOG-TO-DIGITAL CONV
FORCE SENSOR PHOTODIODE
X-Y ACCELERO-METERS
FORCE SENSOR IR LED
ILLUMINATION IR LED
TRI-COLOR STATUS LED
PARALLEL I/F
PROCESSOR ADDRESS, DATA AND CONTROL BUS
TRANSCEIVER CONTROLLER
IMAGE SENSOR I/F
215X215 CCD IMAGE SENSOR

FIG. 8

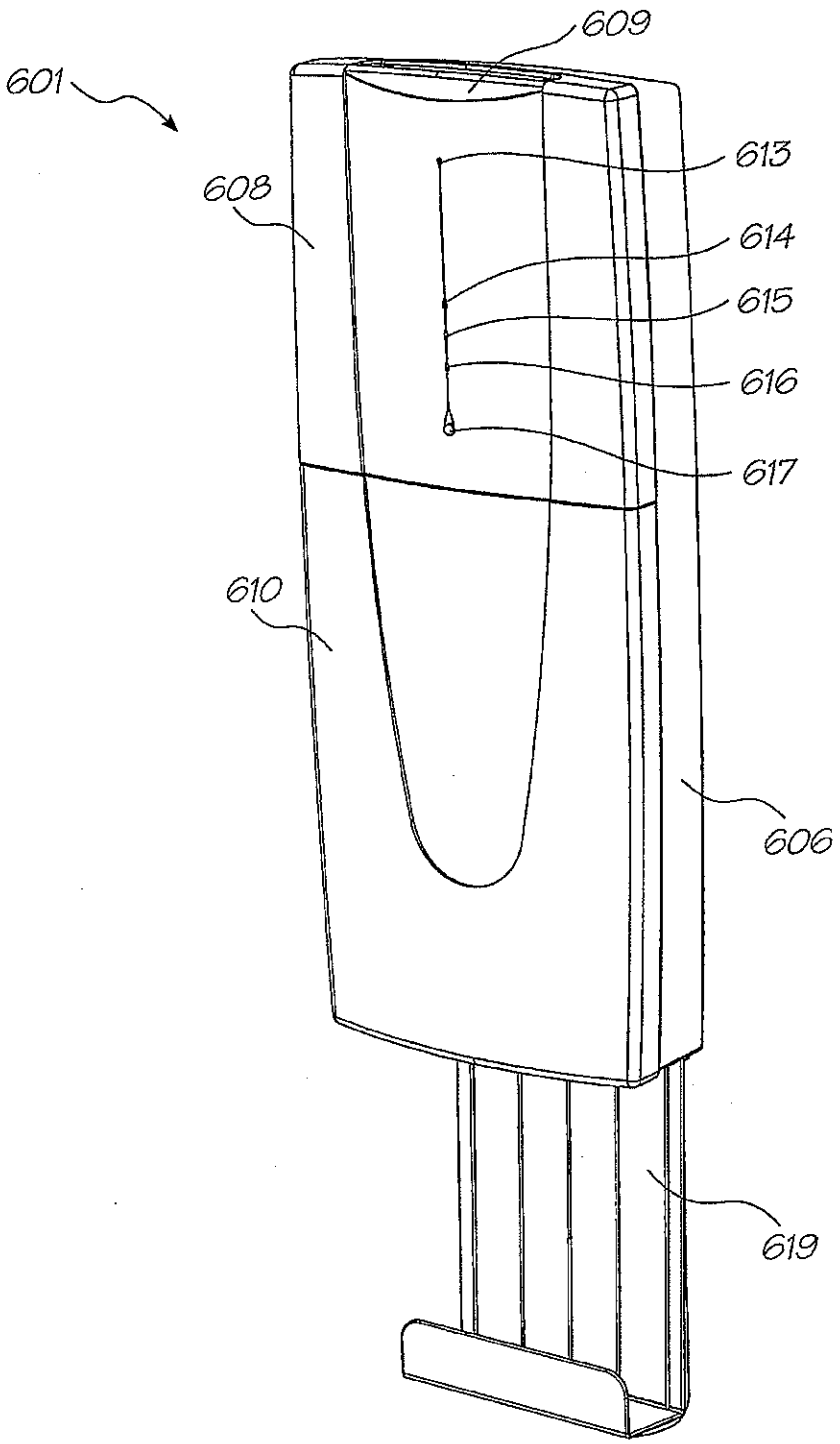



FIG. 9

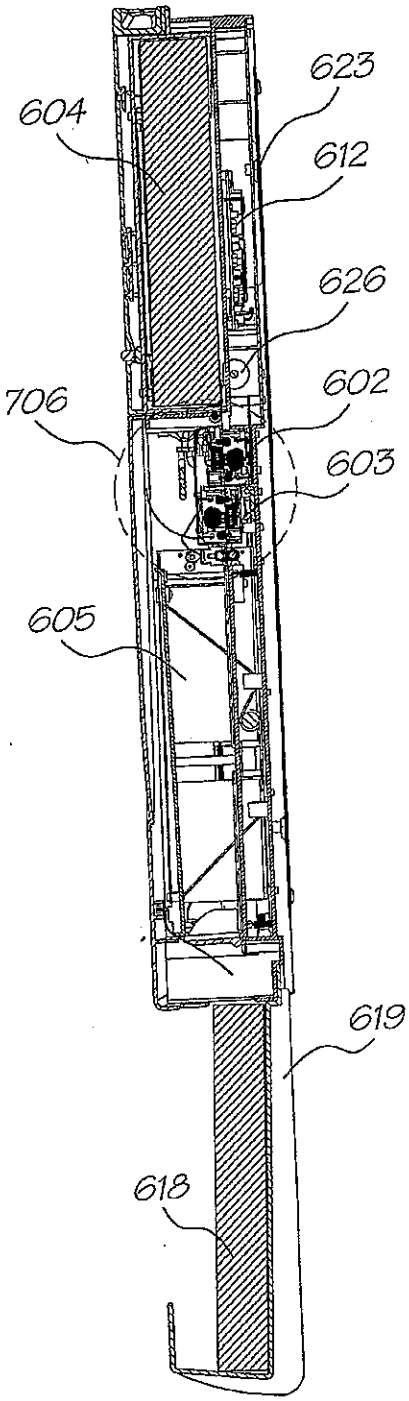



FIG. 10

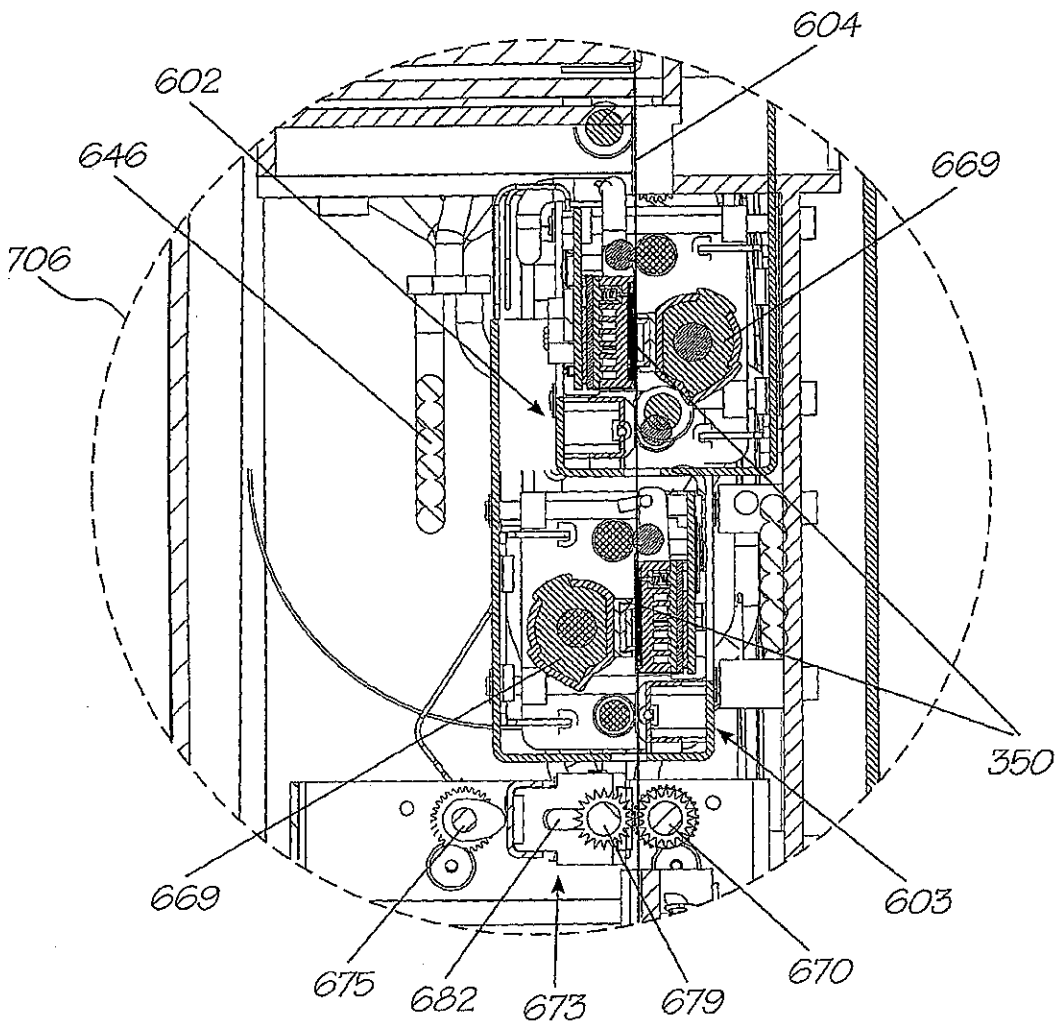



FIG. 10A

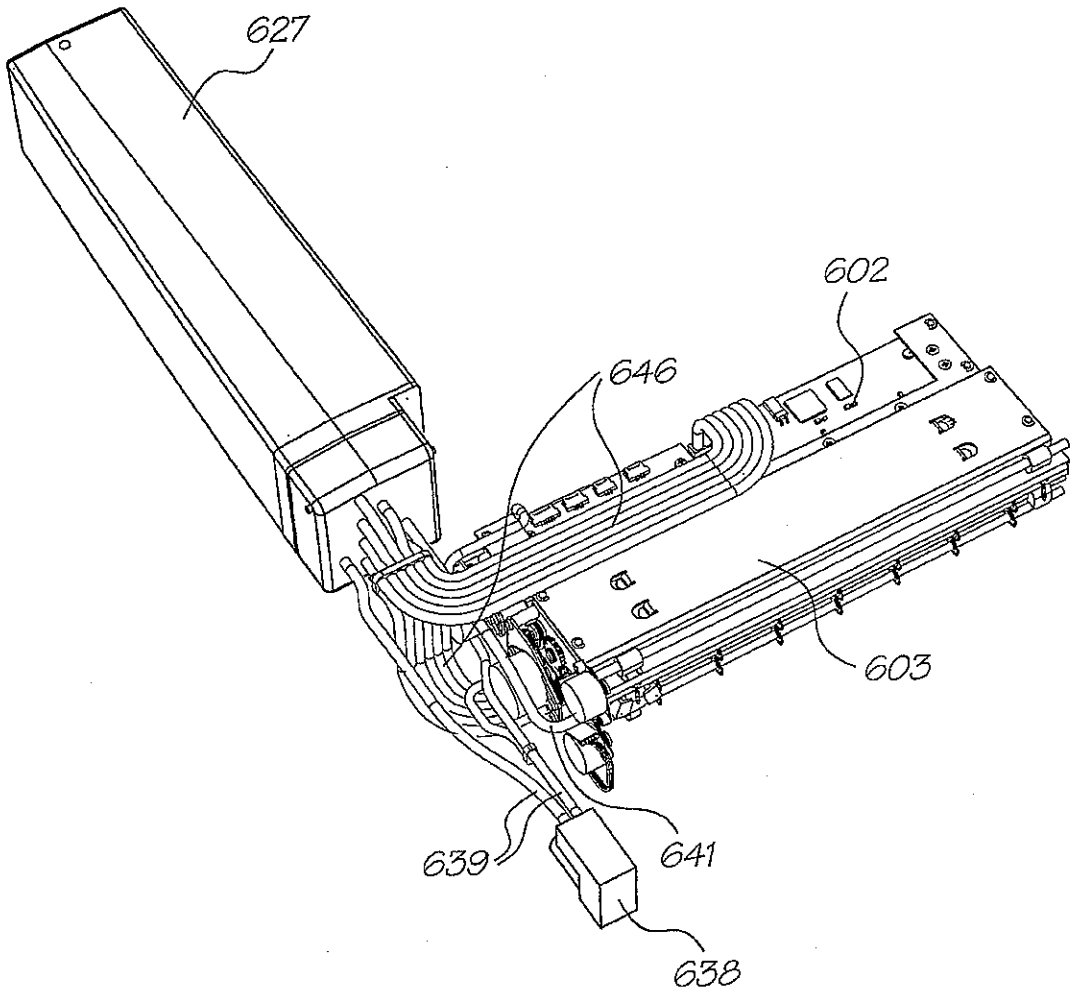



FIG. 11

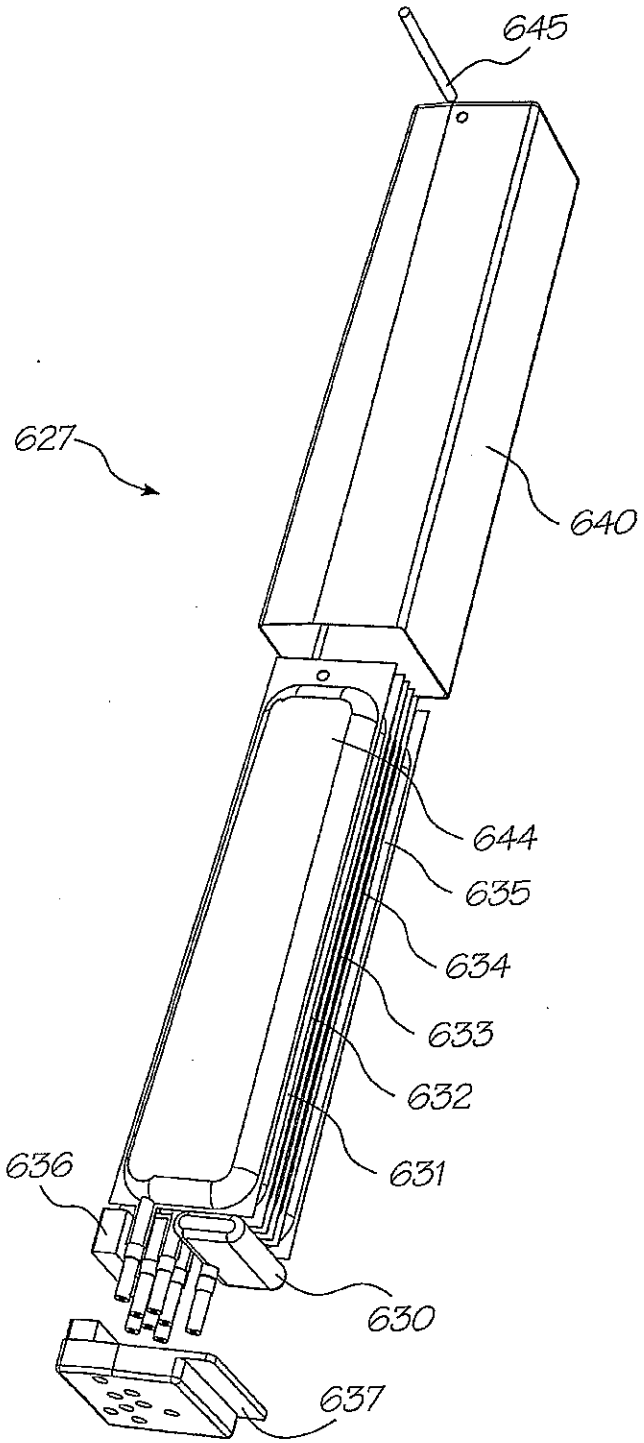



FIG. 12

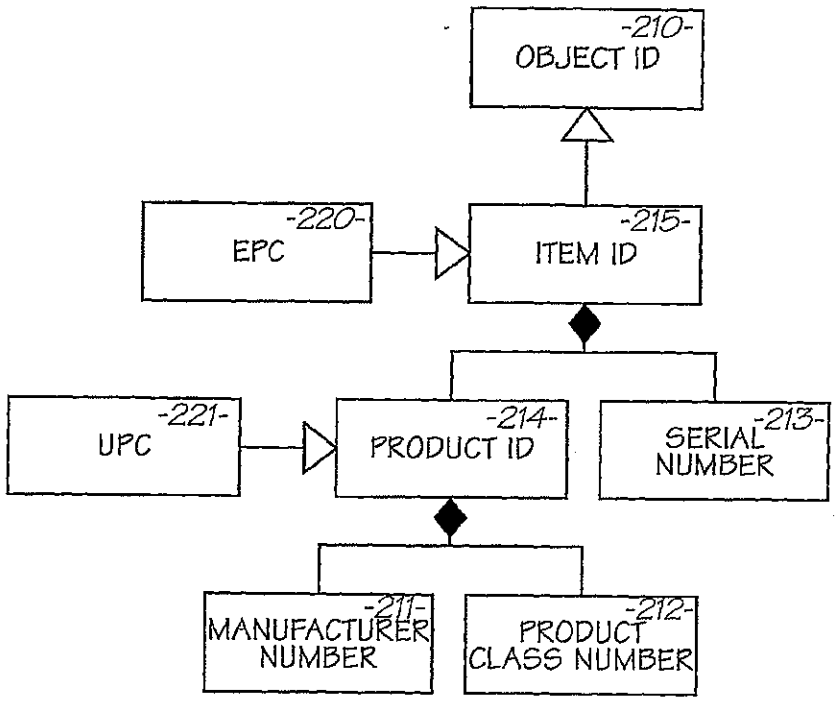

-210-
OBJECT ID
-220-
EPC
-215-
ITEM ID
-221-
UPC
-214-
PRODUCT ID
-213-
SERIAL NUMBER
-211-
MANUFACTURER NUMBER
-212-
PRODUCT CLASS NUMBER

FIG. 13

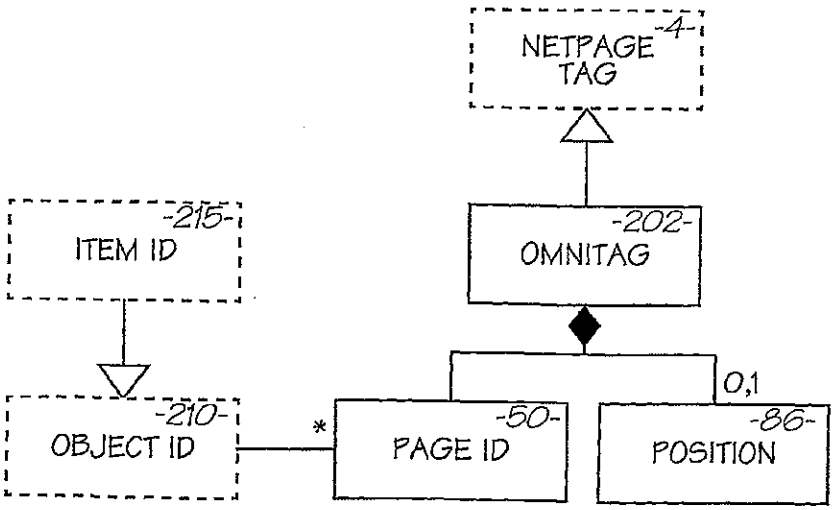

-4-
NETPAGE TAG
-215-
ITEM ID
-202-
OMNITAG
0,1
-210-
OBJECT ID
*
-50-
PAGE ID
-86-
POSITION

FIG. 14

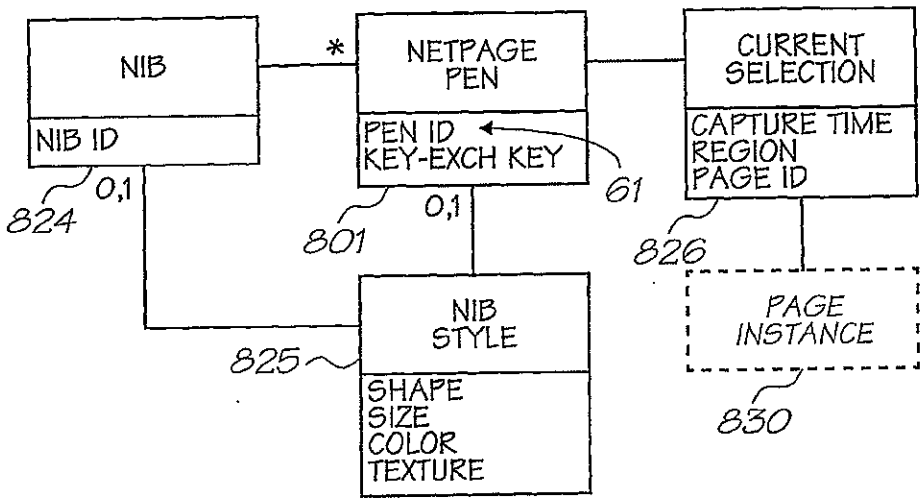

NIB
NIB ID
*
NETPAGE PEN
PEN ID
KEY-EXCH KEY
CURRENT SELECTION
CAPTURE TIME
REGION
PAGE ID
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824
0,1
801
61
826
NIB STYLE
825
SHAPE
SIZE
COLOR
TEXTURE
PAGE INSTANCE
830

FIG. 15

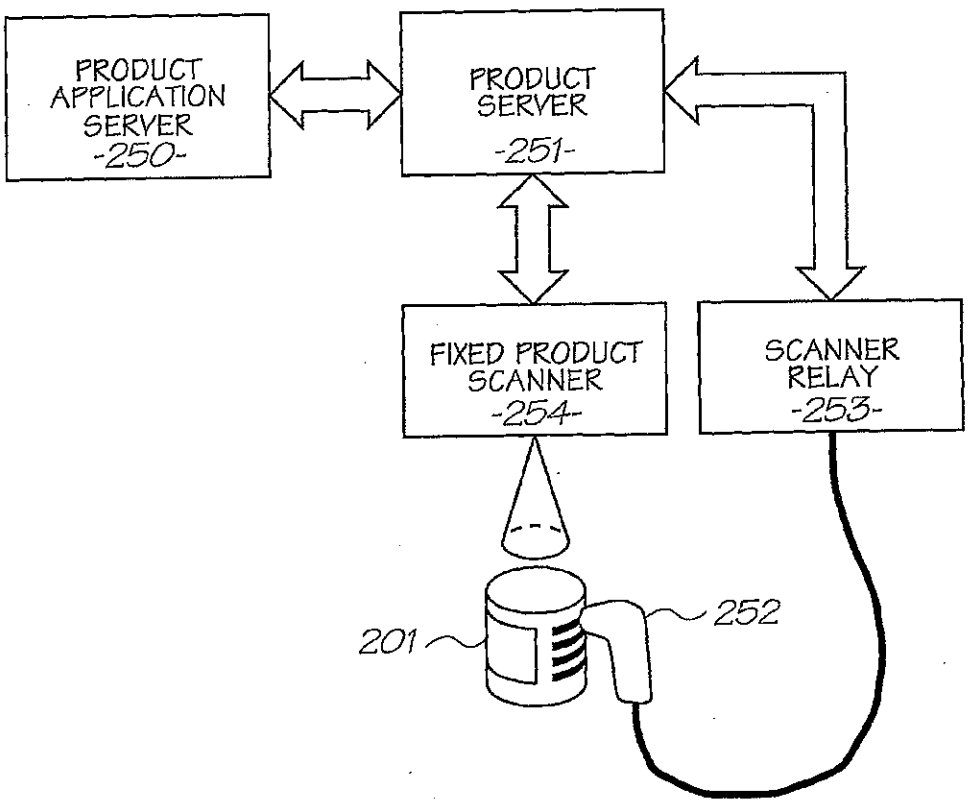

PRODUCT APPLICATION SERVER -250-
PRODUCT SERVER -251-
FIXED PRODUCT SCANNER -254-
SCANNER RELAY -253-
201
252

FIG. 16

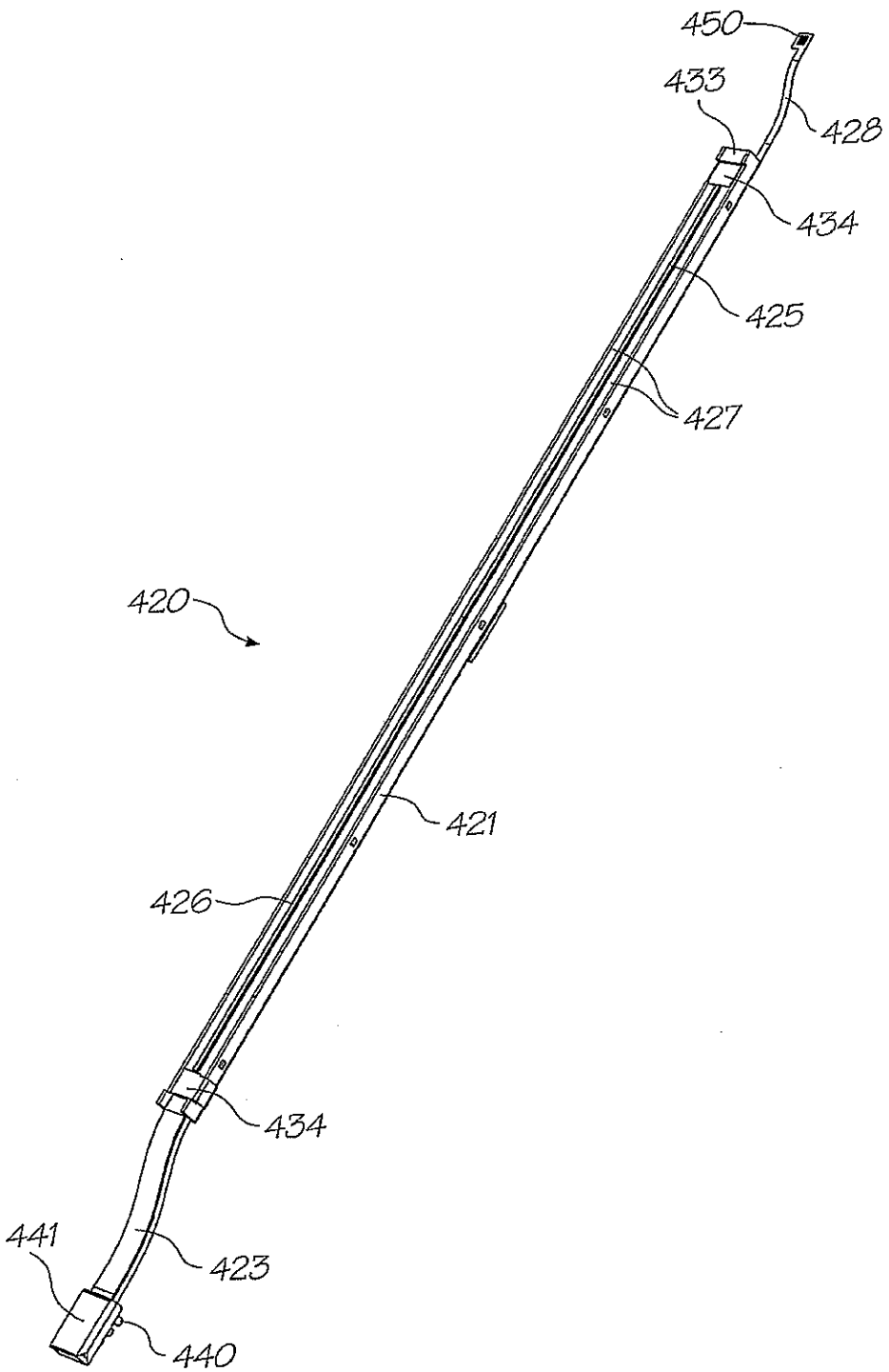



FIG. 17

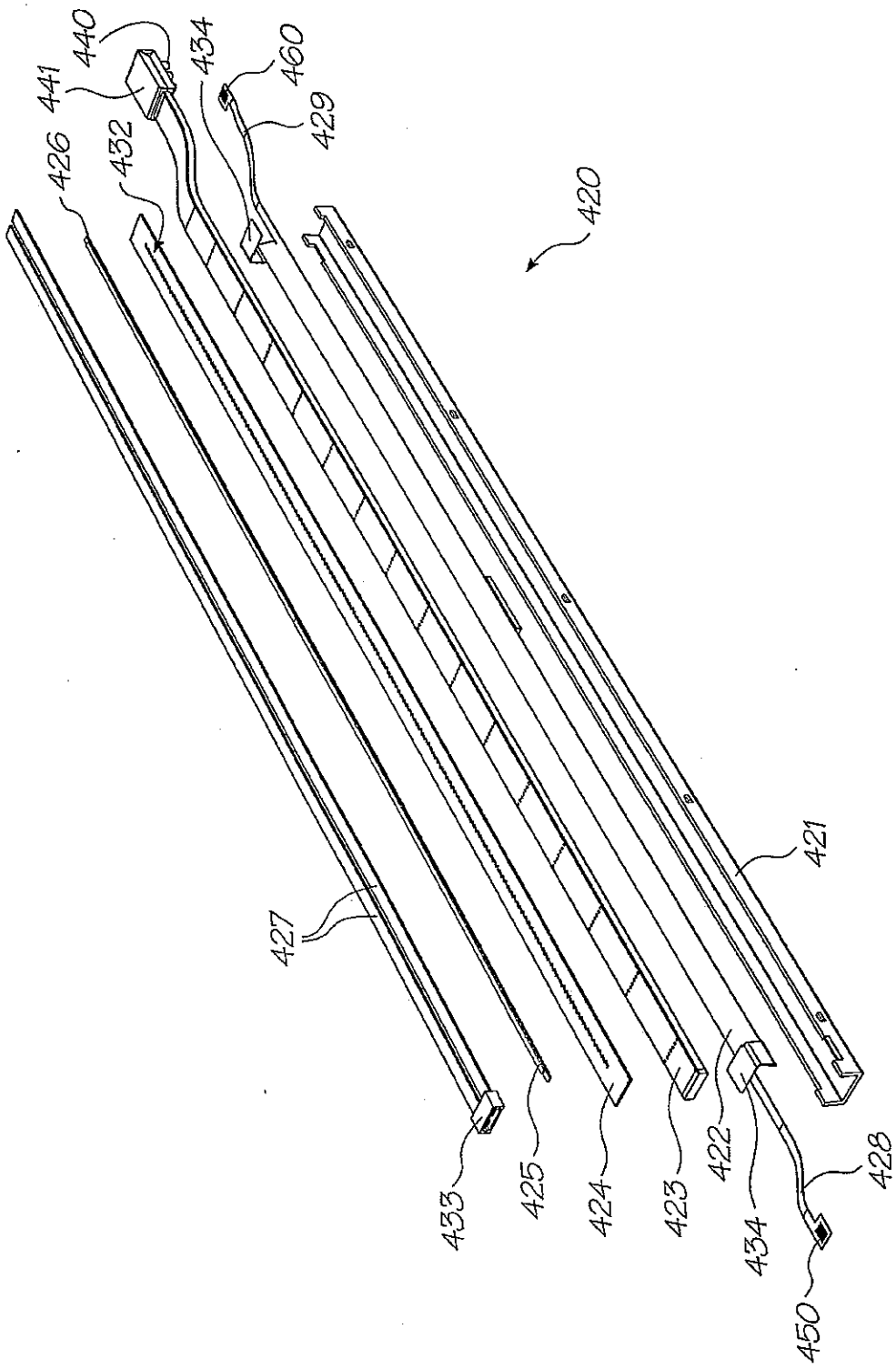

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FIG. 18

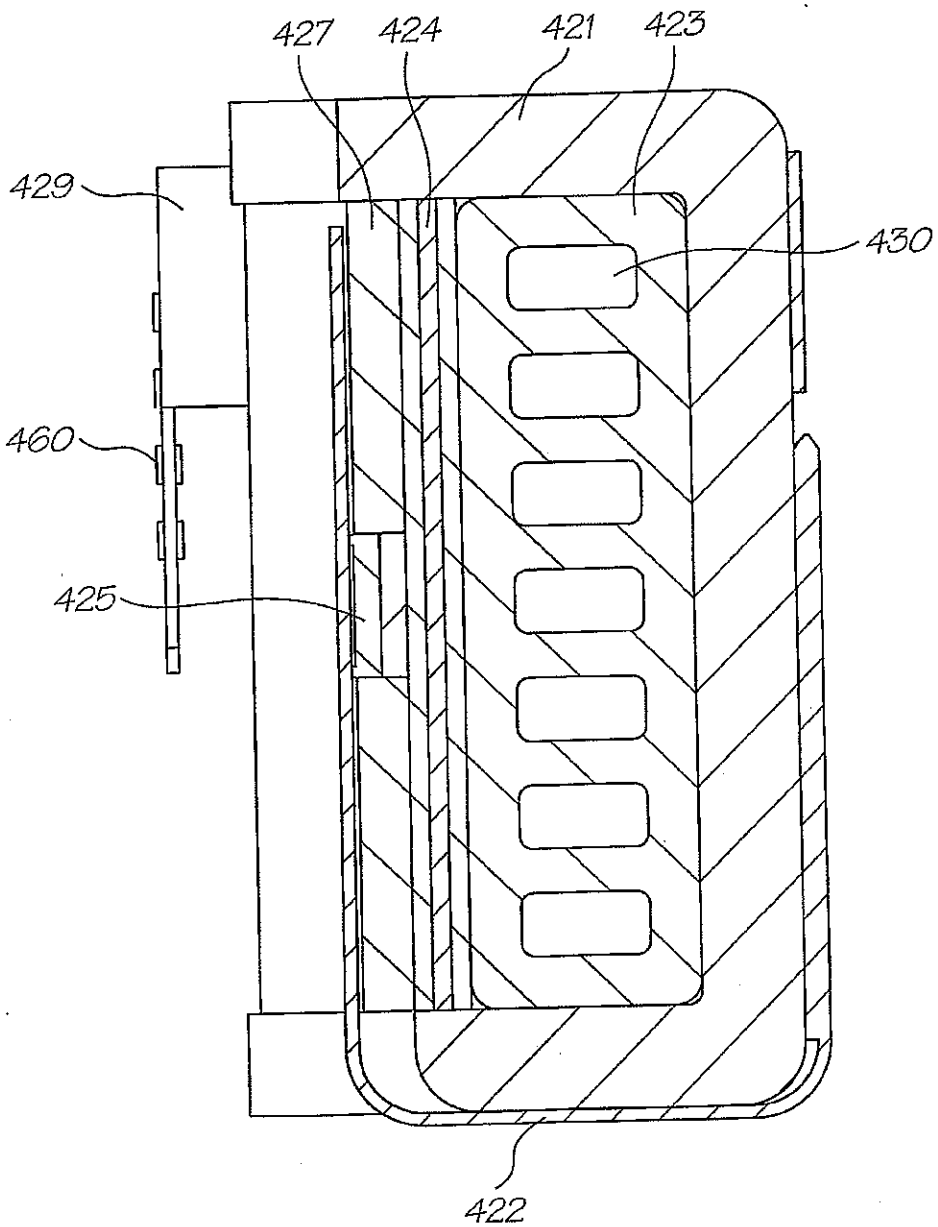



FIG. 19

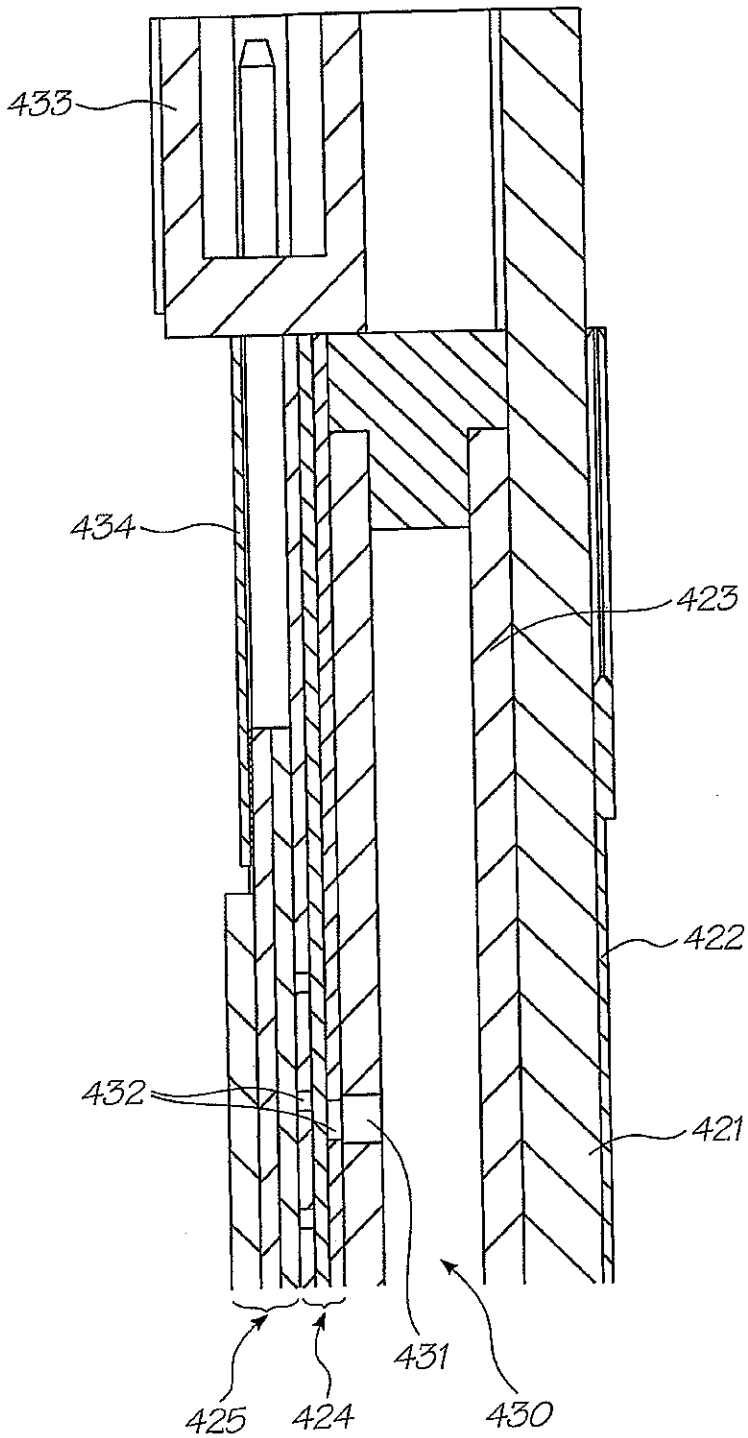



FIG. 20

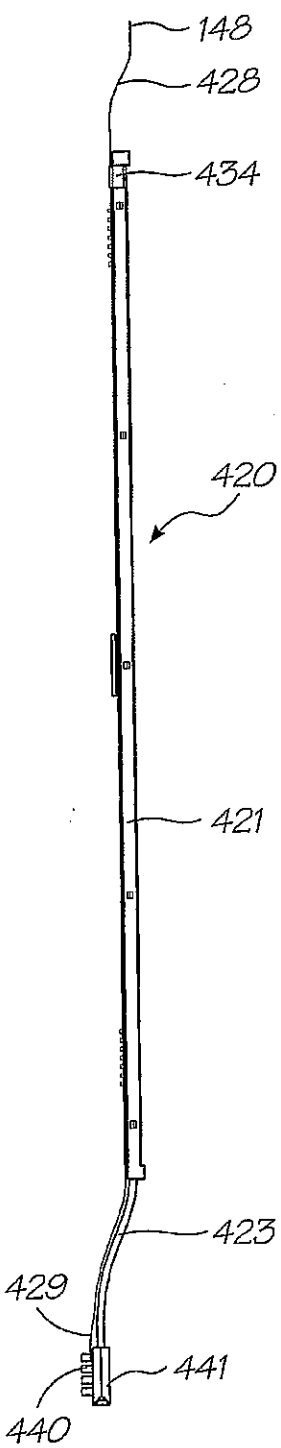



FIG. 21(A)

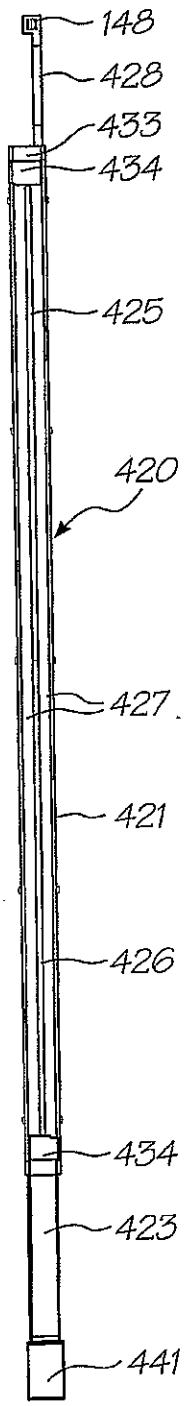



FIG. 21(B)

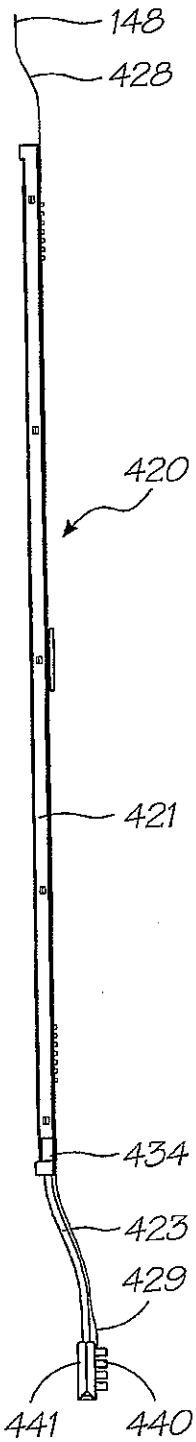



FIG. 21(C)

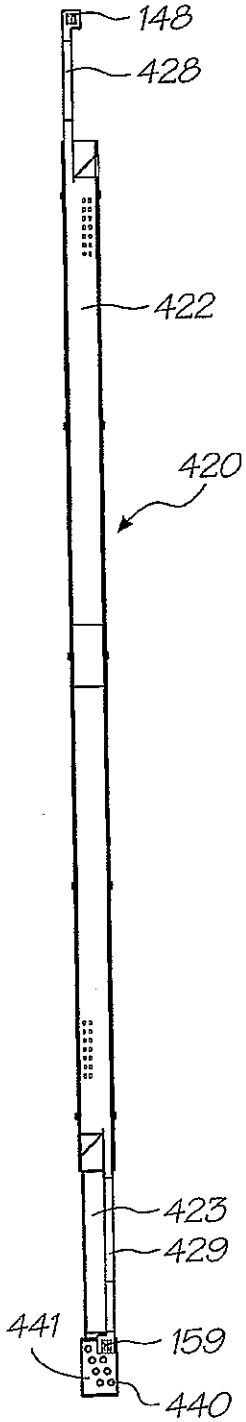



FIG. 21(D)

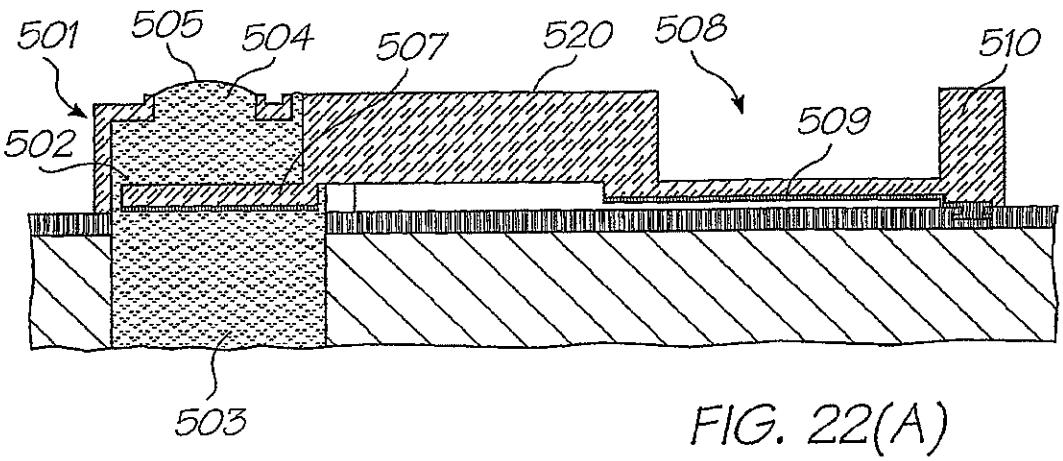



FIG. 22(A)

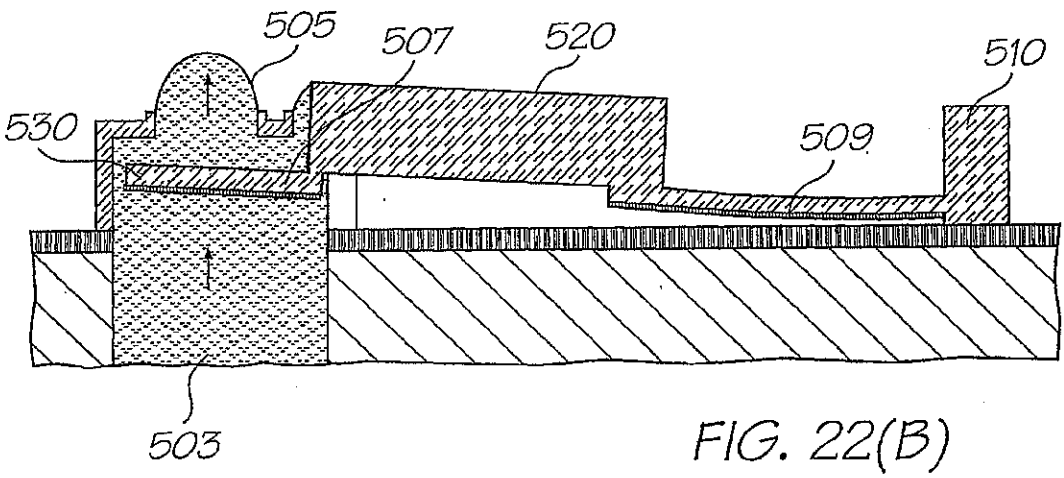



FIG. 22(B)

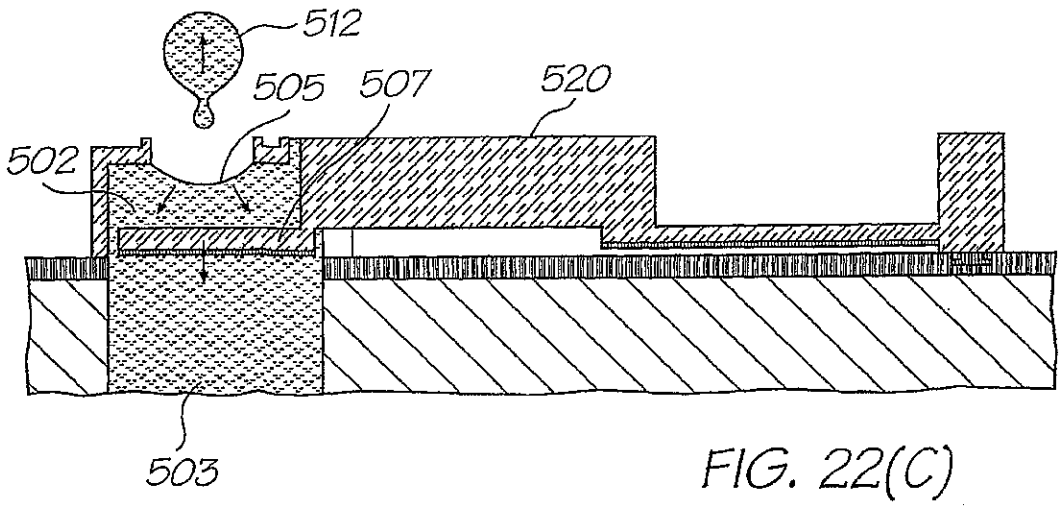



FIG. 22(C)

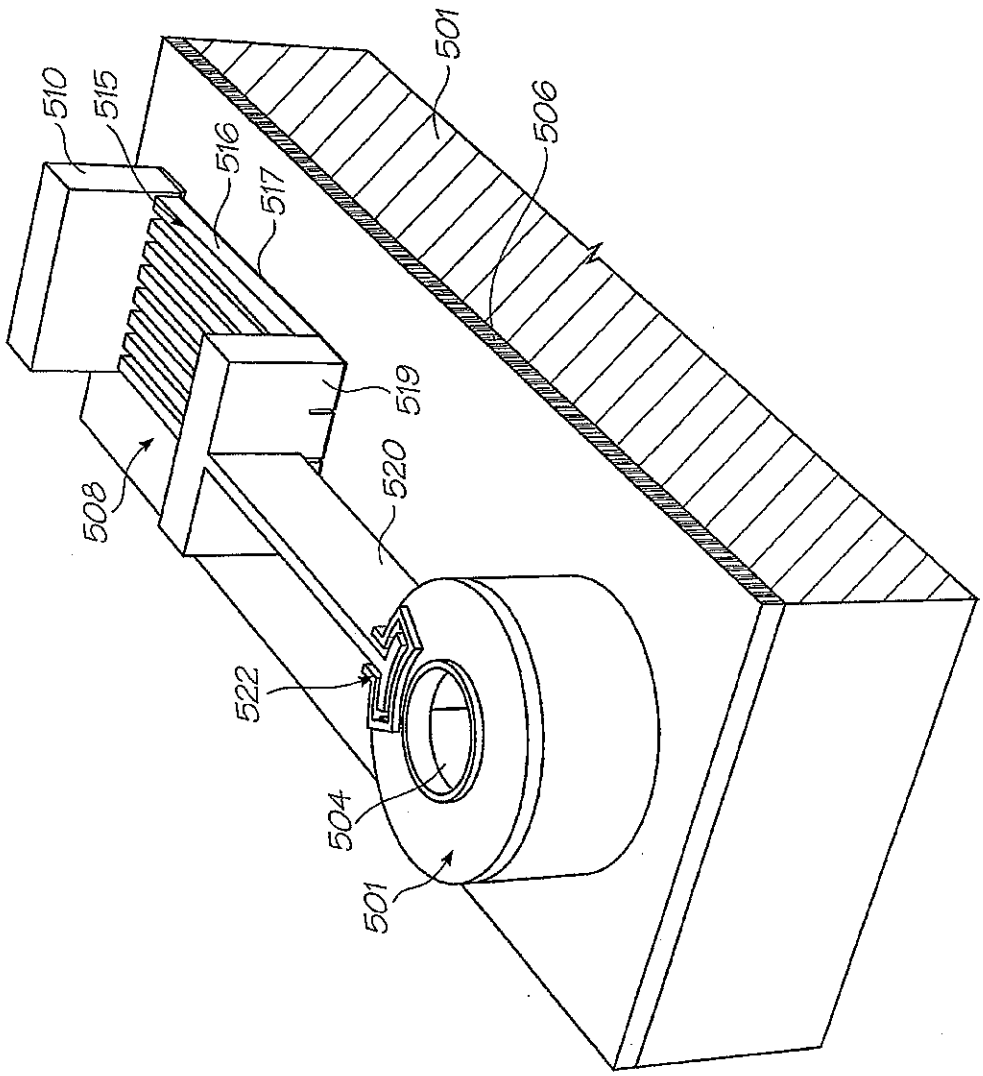



FIG. 23

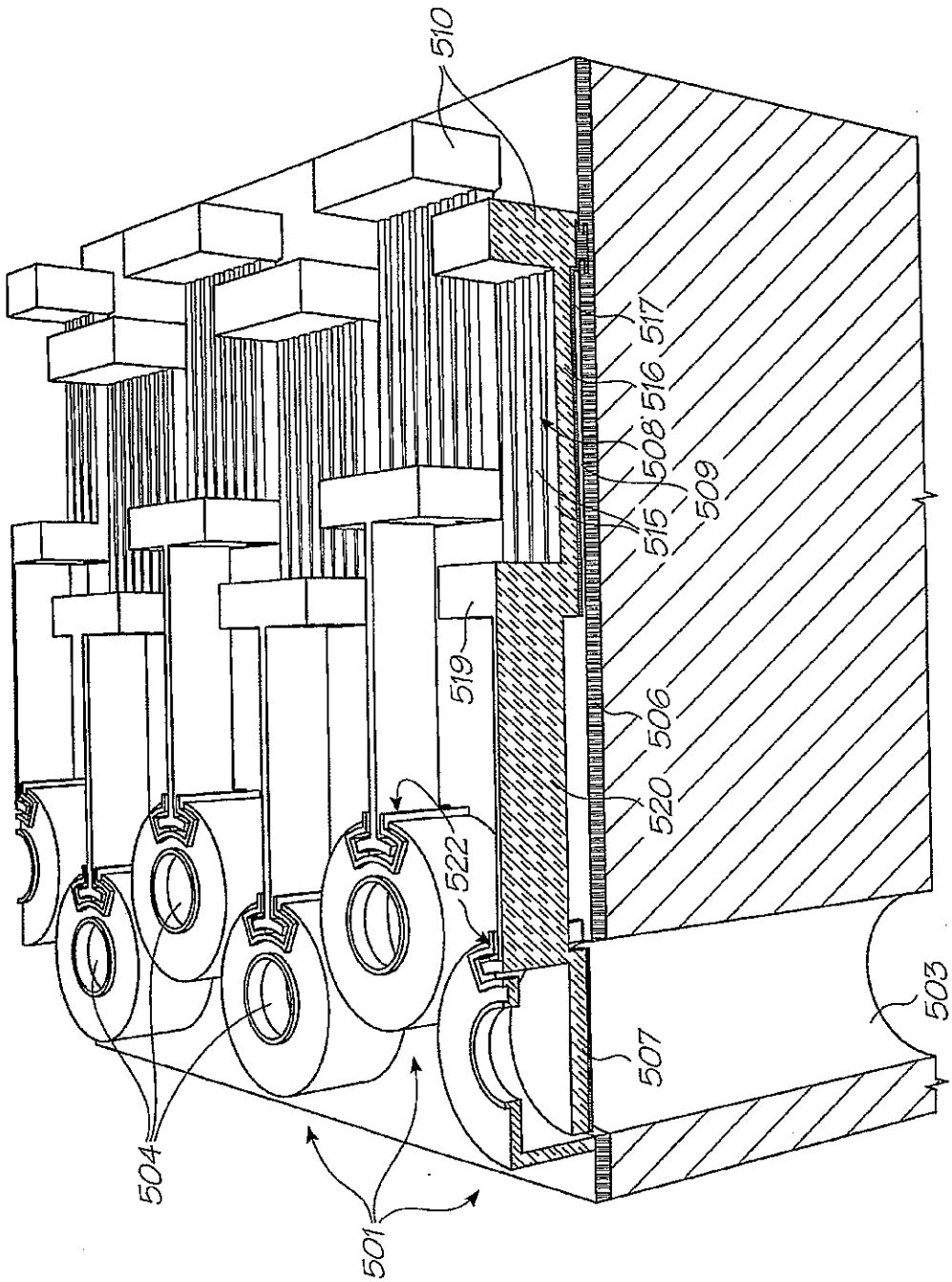



FIG. 24

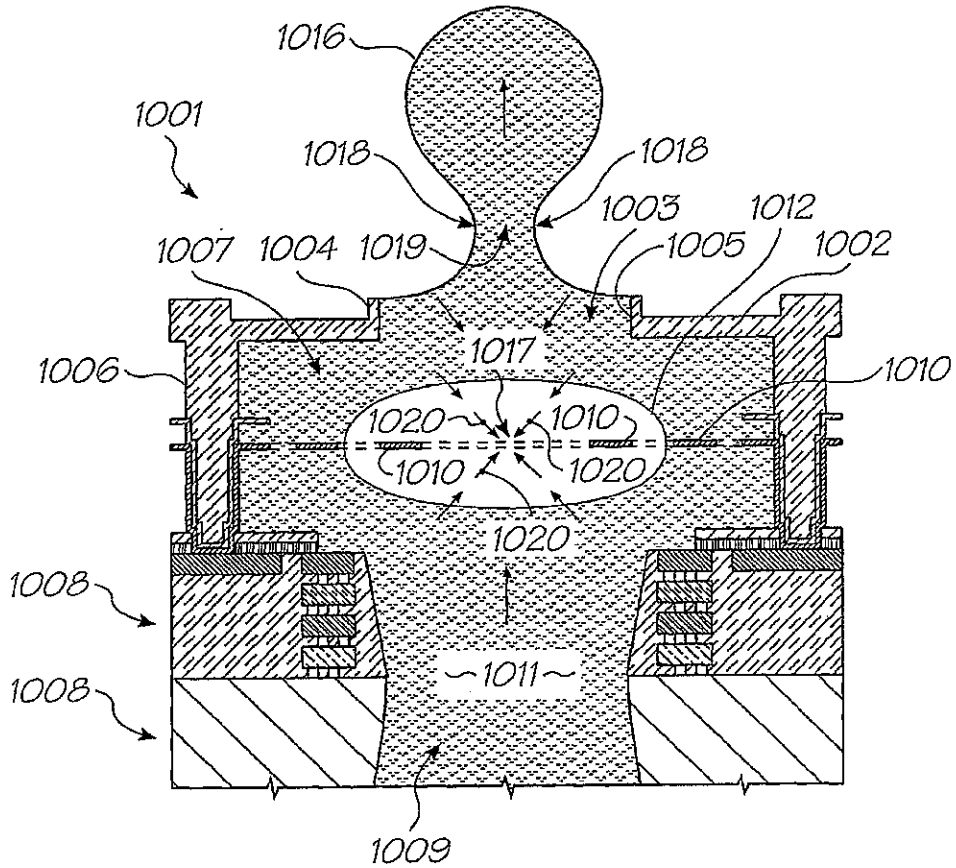

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FIG. 25