

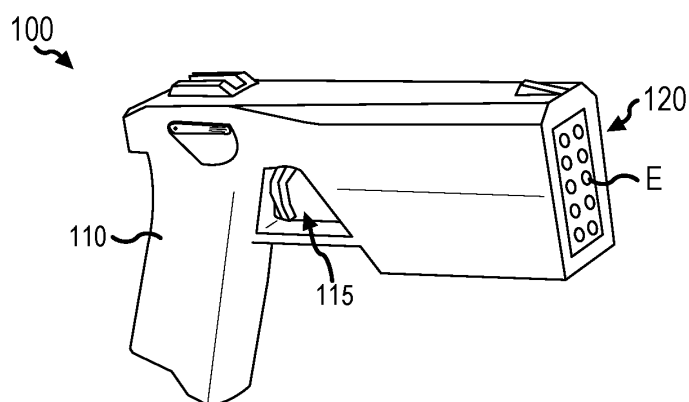


FIG. 1

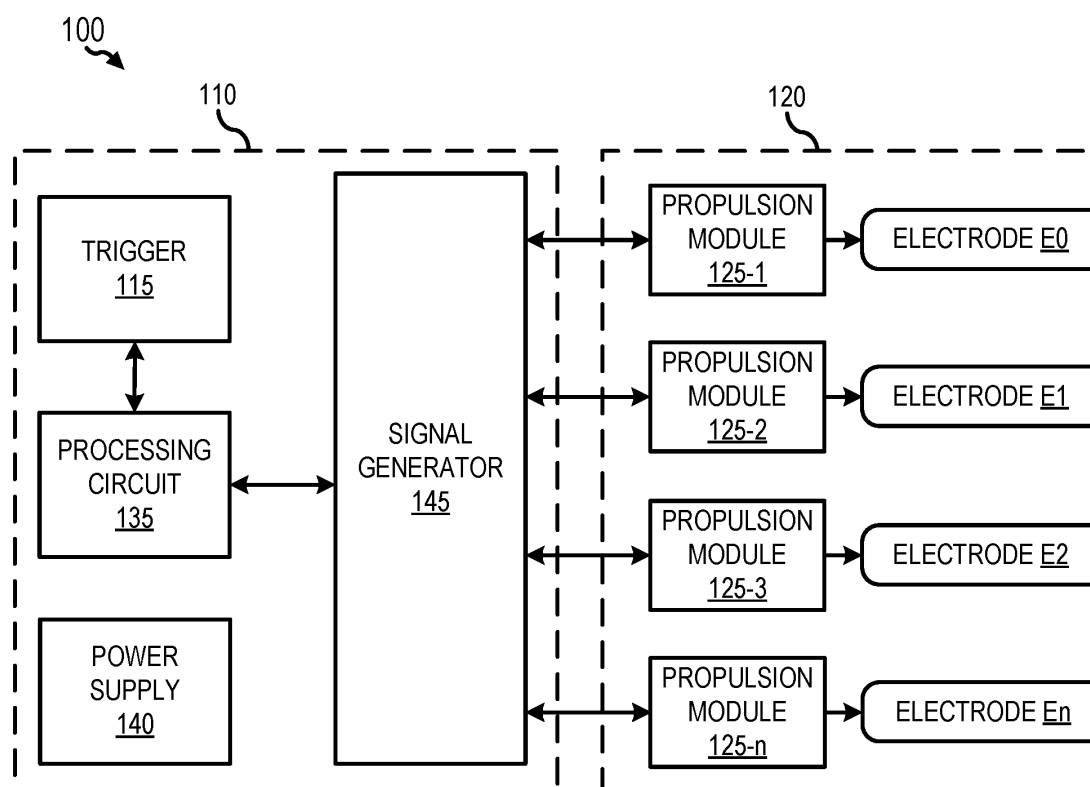
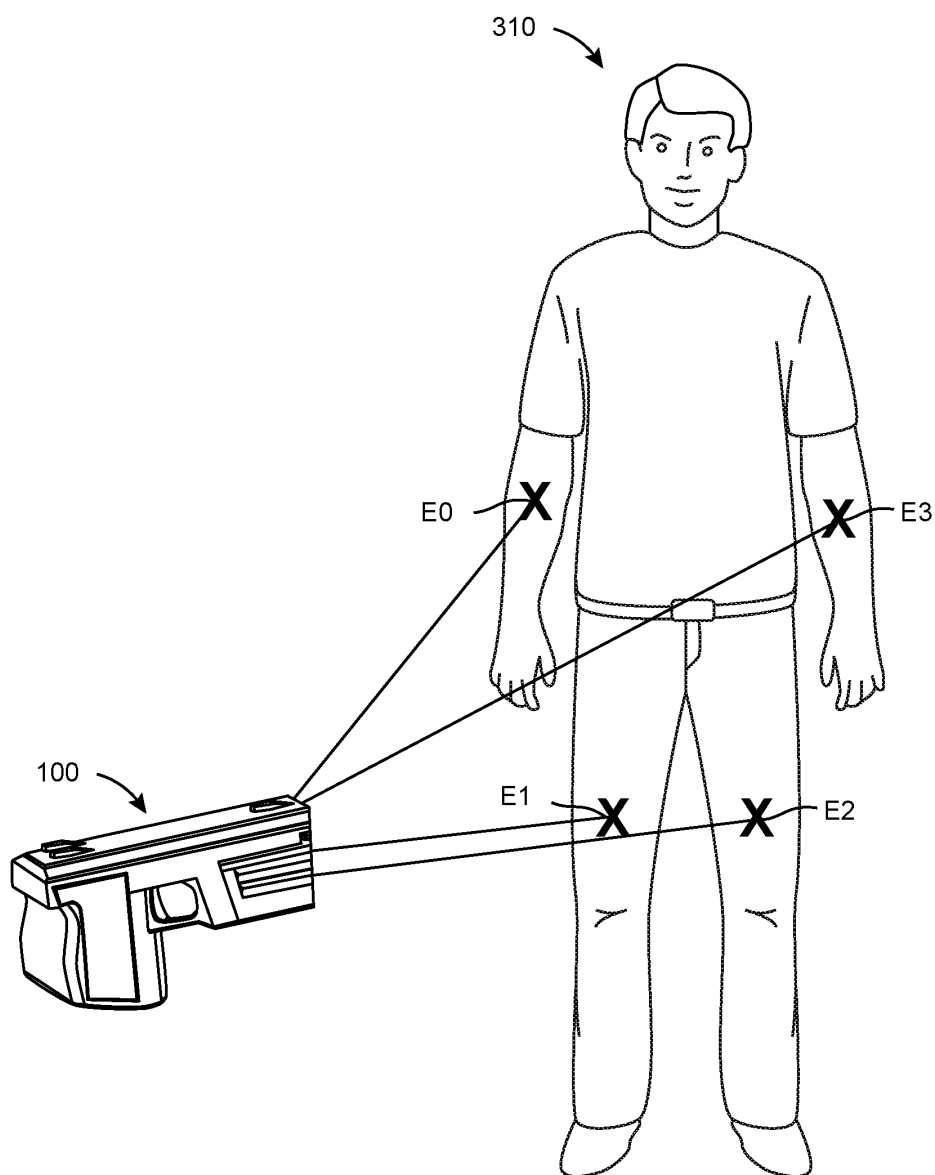


FIG. 2

**FIG. 3**

400

	E0	E1	E2	E3
420	-	-	-	+
422	-	-	+	-
424	-	-	+	+
426	-	+	-	-
428	-	+	-	+
430	-	+	+	-
432	-	+	+	+
434	+	-	-	-
436	+	-	-	+
438	+	-	+	-
440	+	-	+	+
442	+	+	-	-
444	+	+	-	+
446	+	+	+	-

FIG. 4

500

	E0	E1	E2	E3
520	+	-	Z	Z
522	+	Z	-	Z
524	+	Z	Z	-
526	-	+	Z	Z
528	Z	+	-	Z
530	Z	+	Z	-
532	-	Z	+	Z
534	Z	-	+	Z
536	Z	Z	+	-
538	-	Z	Z	+
540	Z	-	Z	+
542	Z	Z	-	+

FIG. 5

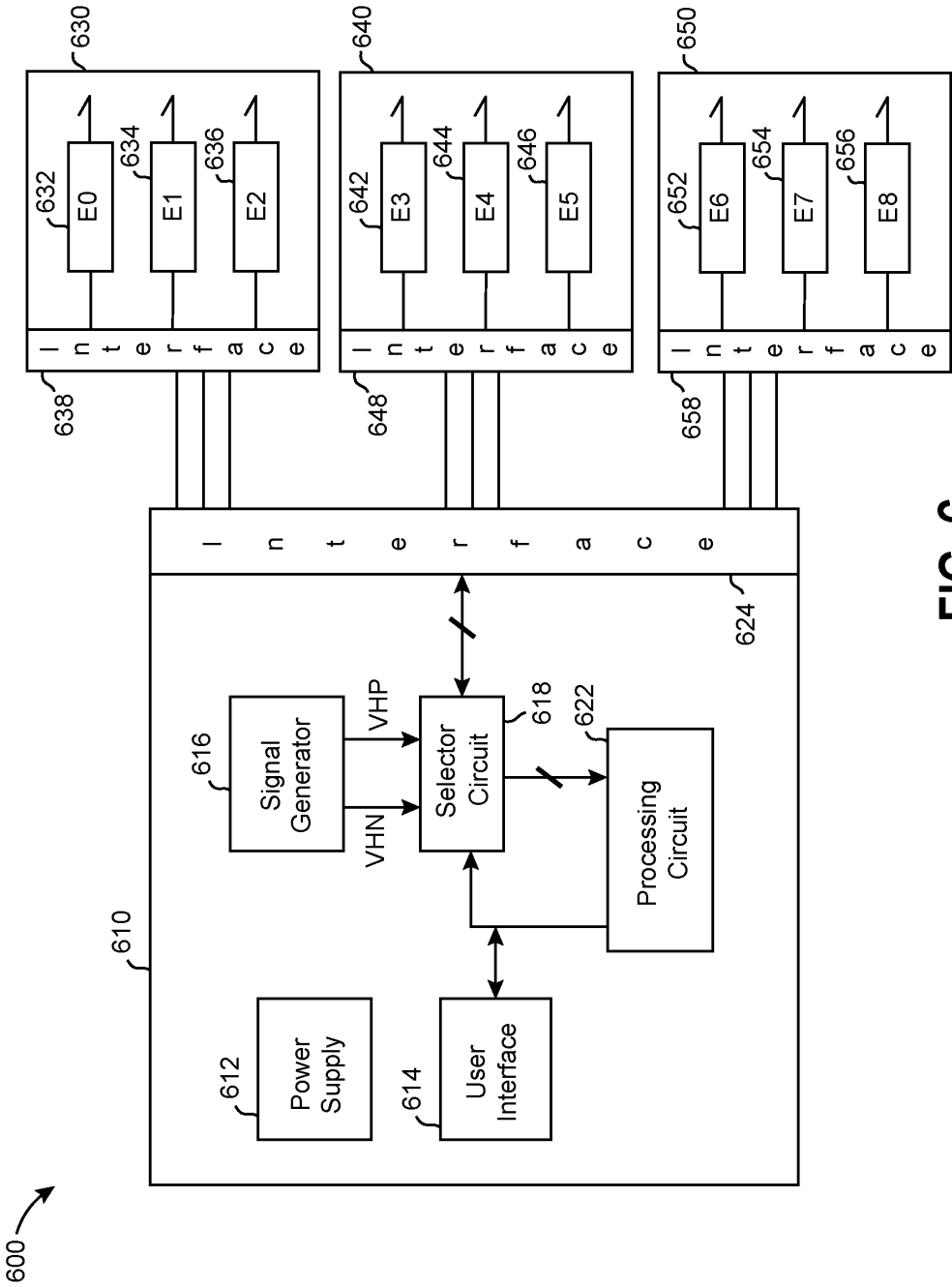


FIG. 6

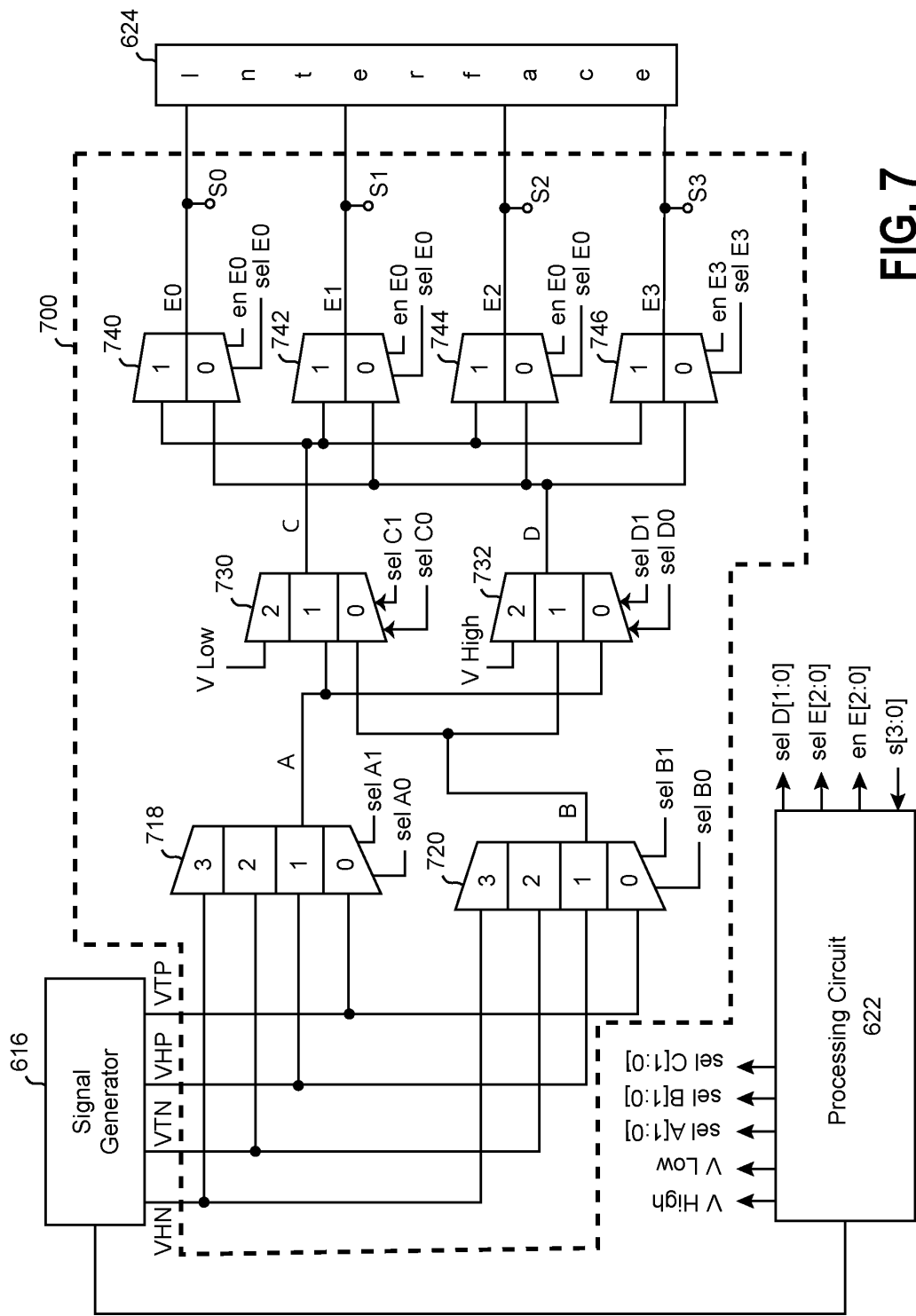


FIG. 7

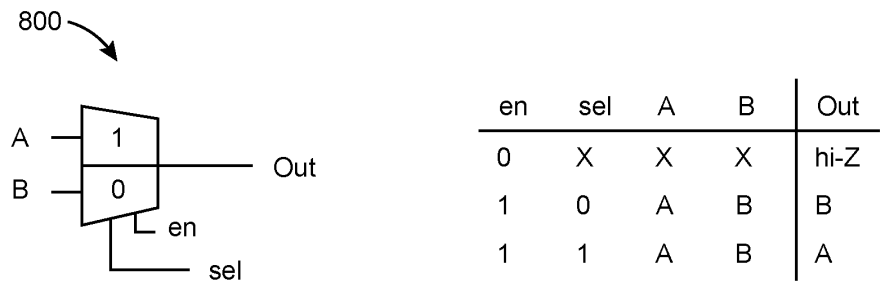


FIG. 8

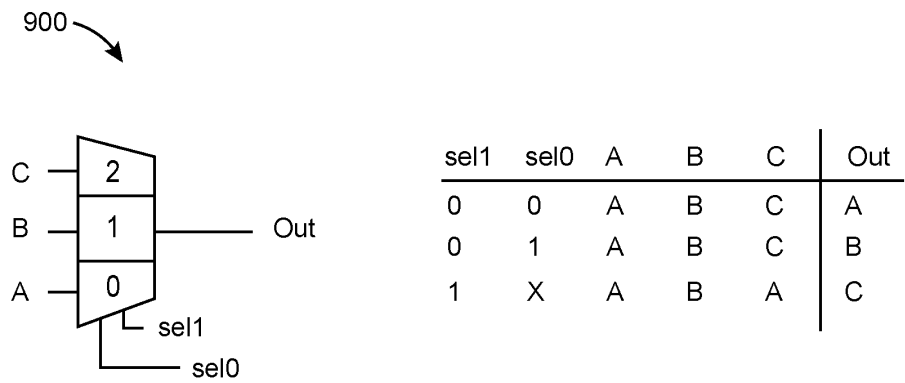


FIG. 9

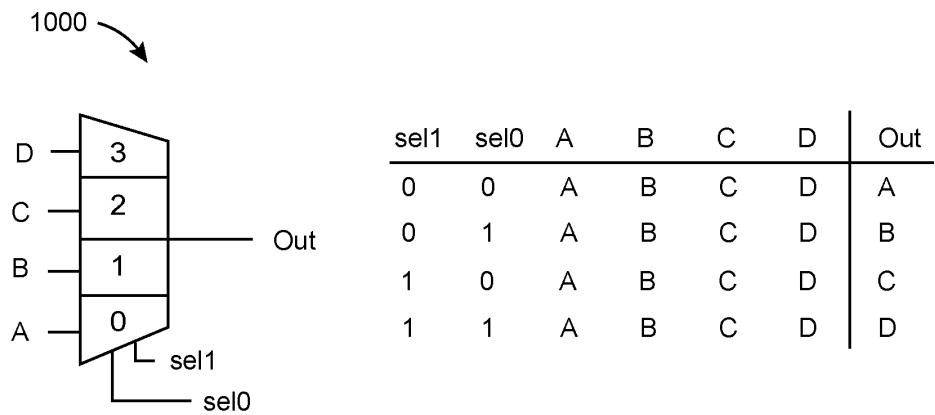


FIG. 10

1100 

	1102				1104		1106				1108	
	selA1	selA0	selB1	selB0	A	B	selC1	selC0	selD1	selD0	C	D
1130	0	1	1	1	VHP	VHN	0	0	0	0	VHN	VHP
1132	0	1	1	1	VHP	VHN	0	1	0	1	VHP	VHN
1134	0	1	1	1	VHP	VHN	0	0	0	0	VHN	VHP
1136	0	1	1	1	VHP	VHN	0	1	0	1	VHP	VHN
1138	0	1	1	1	VHP	VHN	0	1	0	1	VHP	VHN
1140	0	1	1	1	VHP	VHN	0	0	0	0	VHN	VHP

	1110				1112				1114			
	enE0	enE1	enE2	enE3	selC1	selC0	selD1	selD0	E0	E1	E2	E3
1130	1	1	0	0	1	0	X	X	VHN	VHP	Z	Z
1132	1	1	1	1	1	0	0	0	VHP	VHN	VHN	VHN
1134	1	0	0	1	1	X	X	0	VHN	Z	Z	VHN
1136	1	1	1	1	0	1	1	0	VHN	VHP	VHP	VHN
1138	0	1	1	0	X	1	0	X	Z	VHP	VHN	Z
1140	0	1	1	0	X	1	0	X	Z	VHN	VHP	Z

	1116
1130	526
1132	434
1134	538
1136	430
1138	528
1140	534

FIG. 11

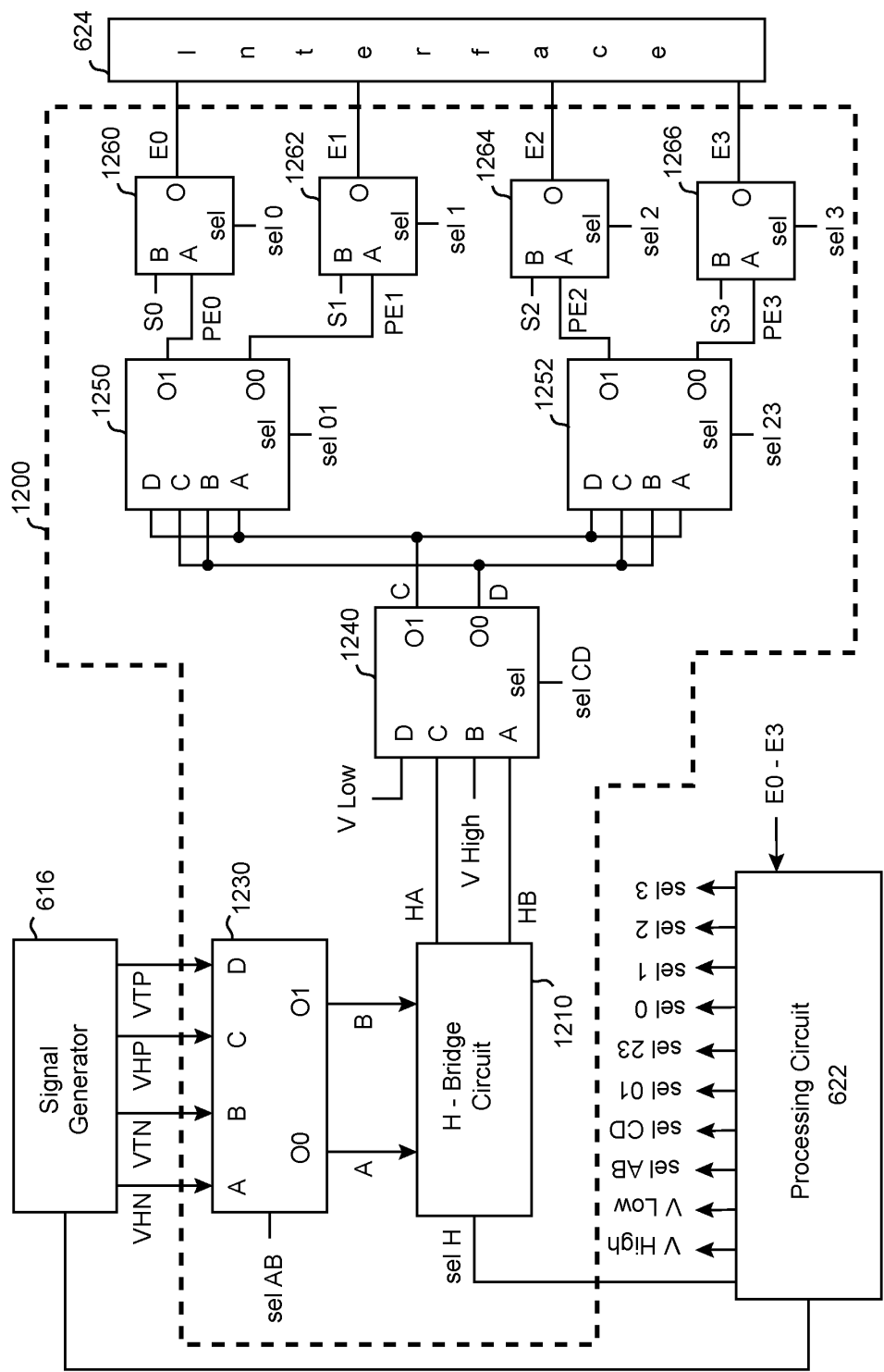


FIG. 12

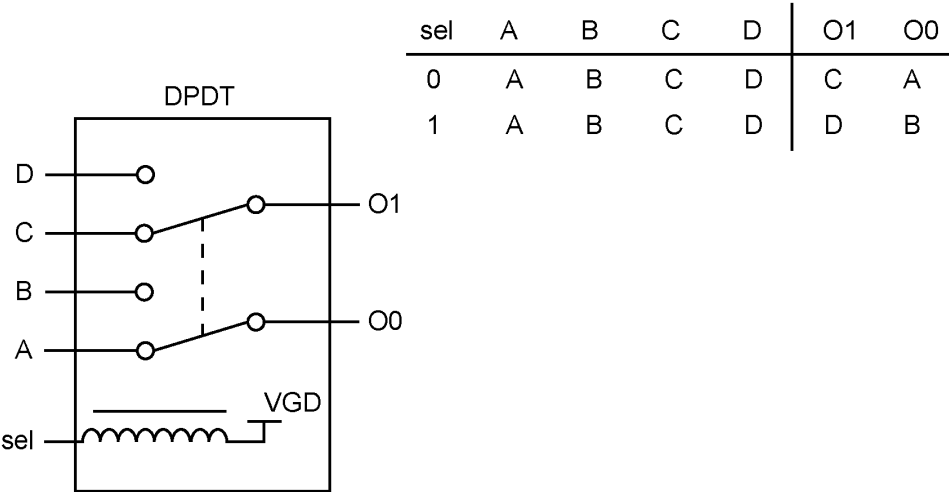


FIG. 13

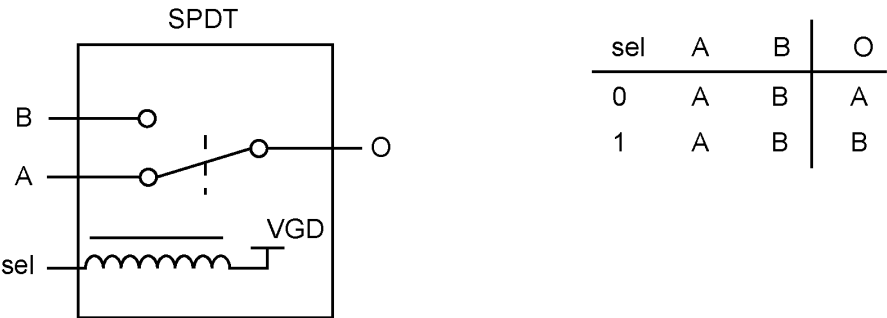


FIG. 14

1500 →

	1502			1504			1506			1508	
	selAB	A	B	selH	HA	HB	selCD	C	D	sel01	sel23
1530	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	0
1532	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	0
1534	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	0
1536	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	0
1538	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	1
1540	0	VHN	VHP	0	VHN	VHP	0	VHP	VHN	0	1

	1510				1512				1514				1516
	PE0	PE1	PE2	PE3	sel0	sel1	sel2	sel3	E0	E1	E2	E3	
1530	VHN	VHP	VHN	VHP	0	0	1	1	VHN	VHP	Z	Z	526
1532	VHN	VHP	VHN	VHP	0	1	1	0	VHN	Z	Z	VHP	538
1534	VHN	VHP	VHN	VHP	1	0	0	1	Z	VHP	VHN	Z	528
1536	VHN	VHP	VHN	VHP	1	1	0	0	Z	Z	VHN	VHP	542
1538	VHN	VHP	VHP	VHN	0	1	0	1	VHN	Z	VHP	Z	532
1540	VHN	VHP	VHP	VHN	1	0	1	0	Z	VHP	Z	VHN	530

FIG. 15

1600 →

	1502			1504			1506			1508	
	selAB	A	B	selH	HA	HB	selCD	C	D	sel01	sel23
1630	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	0
1632	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	0
1634	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	0
1636	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	0
1638	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	1
1640	1	VTN	VTP	0	VTN	VTP	0	VTP	VTN	0	1

	1510				1512				1514				1516
	PE0	PE1	PE2	PE3	sel0	sel1	sel2	sel3	E0	E1	E2	E3	
1630	VTN	VTP	VTN	VTP	0	0	1	1	VTN	VTP	Z	Z	526
1632	VTN	VTP	VTN	VTP	0	1	1	0	VTN	Z	Z	VTP	538
1634	VTN	VTP	VTN	VTP	1	0	0	1	Z	VTP	VTN	Z	528
1636	VTN	VTP	VTN	VTP	1	1	0	0	Z	Z	VTN	VTP	542
1638	VTN	VTP	VTN	VTP	0	1	0	1	VTN	Z	VTP	Z	532
1640	VTN	VTP	VTN	VTP	1	0	1	0	Z	VTP	Z	VTN	530

FIG. 16

1700 

	1502			1504			1506			1508	
	selAB	A	B	Hbridge	HA	HB	selCD	C	D	sel01	sel23
1730	X	X	X	0	X	X	1	Vlow	Vhigh	0	0
1732	X	X	X	0	X	X	1	Vlow	Vhigh	0	0
1734	X	X	X	0	X	X	1	Vlow	Vhigh	0	0
1736	X	X	X	0	X	X	1	Vlow	Vhigh	0	0
1738	X	X	X	0	X	X	1	Vlow	Vhigh	0	1
1740	X	X	X	0	X	X	1	Vlow	Vhigh	0	1

	1510				1512				1514				1516
	PE0	PE1	PE2	PE3	sel0	sel1	sel2	sel3	E0	E1	E2	E3	
1730	Vhigh	Vlow	Vhigh	Vlow	0	0	1	1	Vhigh	Vlow	Z	Z	526
1732	Vhigh	Vlow	Vhigh	Vlow	0	1	1	0	Vhigh	Z	Z	Vlow	538
1734	Vhigh	Vlow	Vhigh	Vlow	1	0	0	1	Z	Vlow	Vhigh	Z	528
1736	Vhigh	Vlow	Vhigh	Vlow	1	1	0	0	Z	Z	Vhigh	Vlow	542
1738	Vhigh	Vlow	Vlow	Vhigh	0	1	0	1	Vhigh	Z	Vlow	Z	532
1740	Vhigh	Vlow	Vlow	Vhigh	1	0	1	0	Z	Vlow	Z	Vhigh	530

FIG. 17

1800 

	1102				1104		1106				1108	
	selA1	selA0	selB0	selB1	A	B	selC1	selC0	selD1	selD0	C	D
1830	X	X	X	X	X	X	1	0	1	0	Vlow	Vhigh
1832	X	X	X	X	X	X	1	0	1	0	Vlow	Vhigh
1834	1	0	0	0	VTN	VTP	0	1	0	1	VTN	VTP
1836	1	0	0	0	VTN	VTP	0	0	0	0	VTP	VTN

	1110				1112			
	enE0	enE1	enE2	enE3	selE0	selE1	selE2	selE3
1830	1	0	0	1	0	X	X	1
1832	0	1	1	0	X	1	0	X
1834	1	0	1	0	0	X	0	X
1836	0	1	0	1	X	1	X	0

	1114				1116
	E0	E1	E2	E3	
1830	Vhigh	Z	Z	Vlow	524
1832	Z	Vlow	Vhigh	Z	532
1834	VTN	Z	VTP	Z	530
1836	Z	VTP	Z	VTN	534

FIG. 18

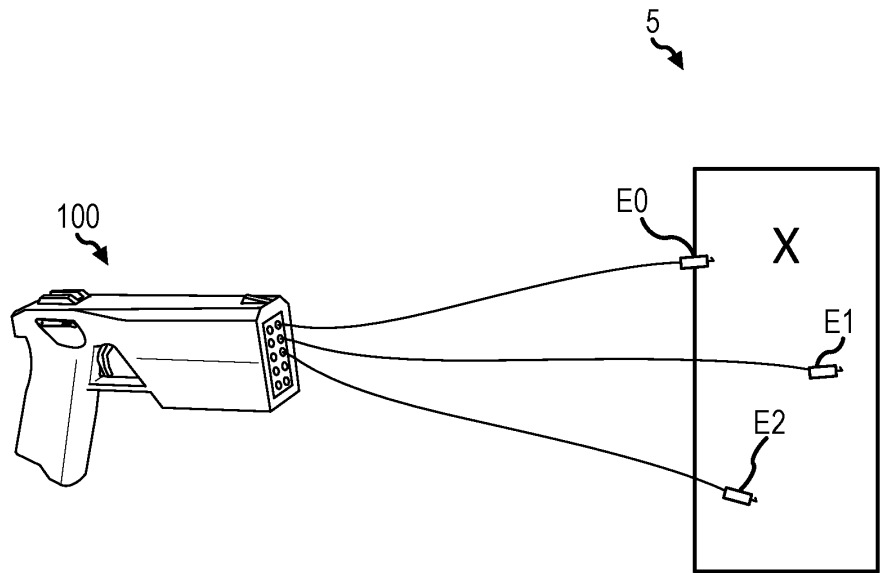


FIG. 19A

1900

	<u>ELECTRODES</u>		
	E0	E1	E2
PULSE 1	-	+	
PULSE 2		-	+
PULSE 3	+		-
PULSE n	...	...	...

FIG. 19B

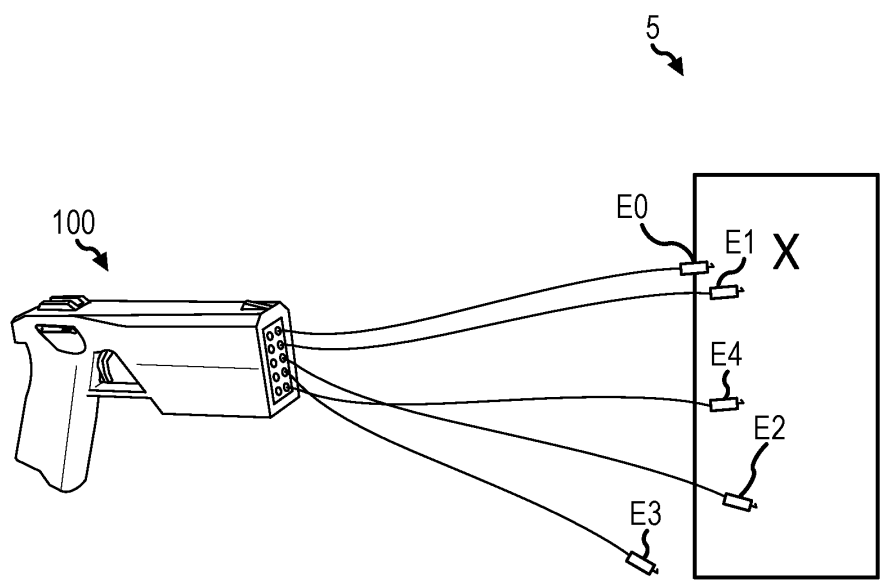


FIG. 20A

2000

ELECTRODES					
	E0	E1	E2	E3	E4
TEST 1	FIRST V	~FIRST V	SECOND V	0	~SECOND V
TEST 2	~FIRST V	FIRST V	~SECOND V	0	SECOND V
TEST 3	~SECOND V	~SECOND V	FIRST V	0	SECOND V
TEST 4	SECOND V	SECOND V	SECOND V	FIRST V	SECOND V

FIG. 20B