

FIG. 1

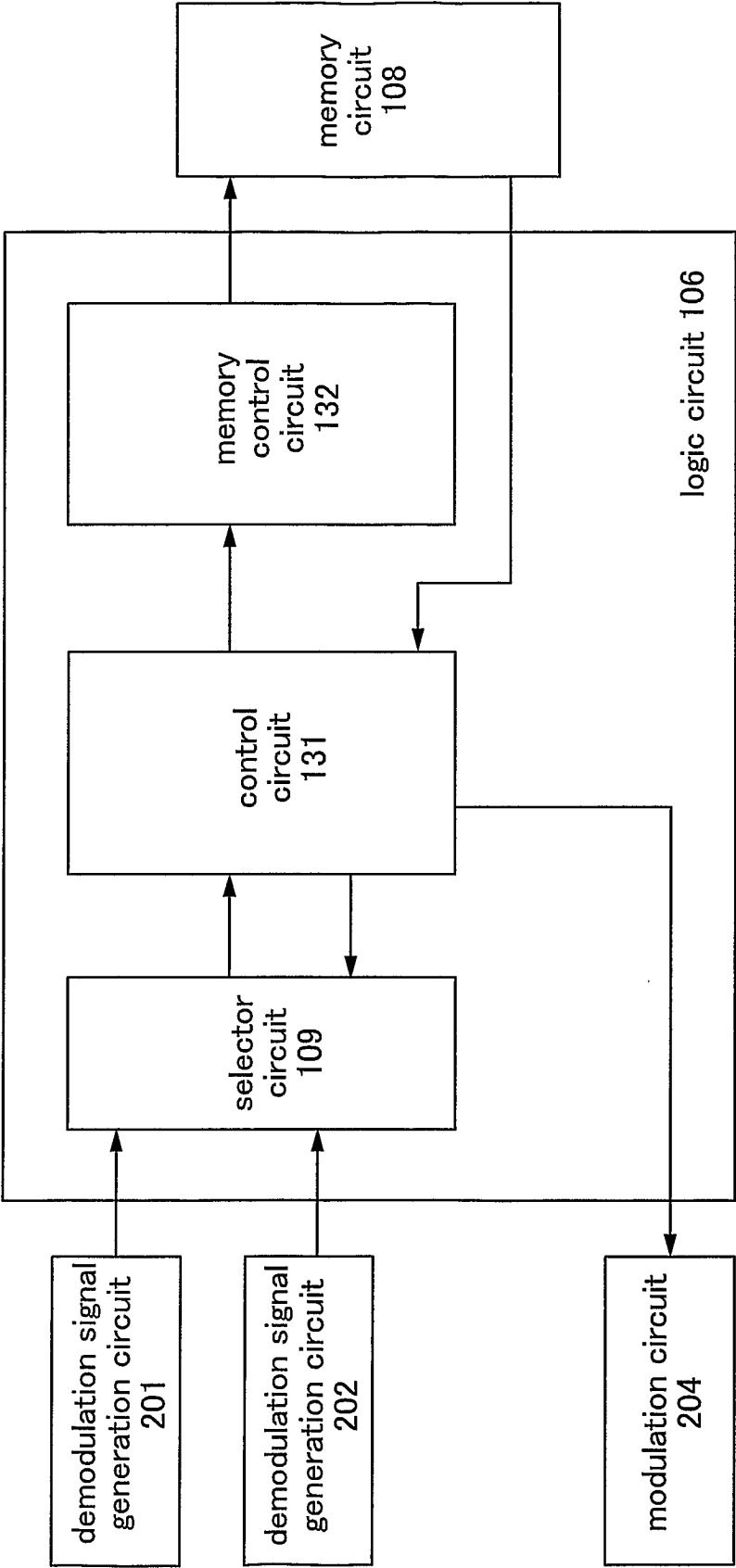


FIG. 2

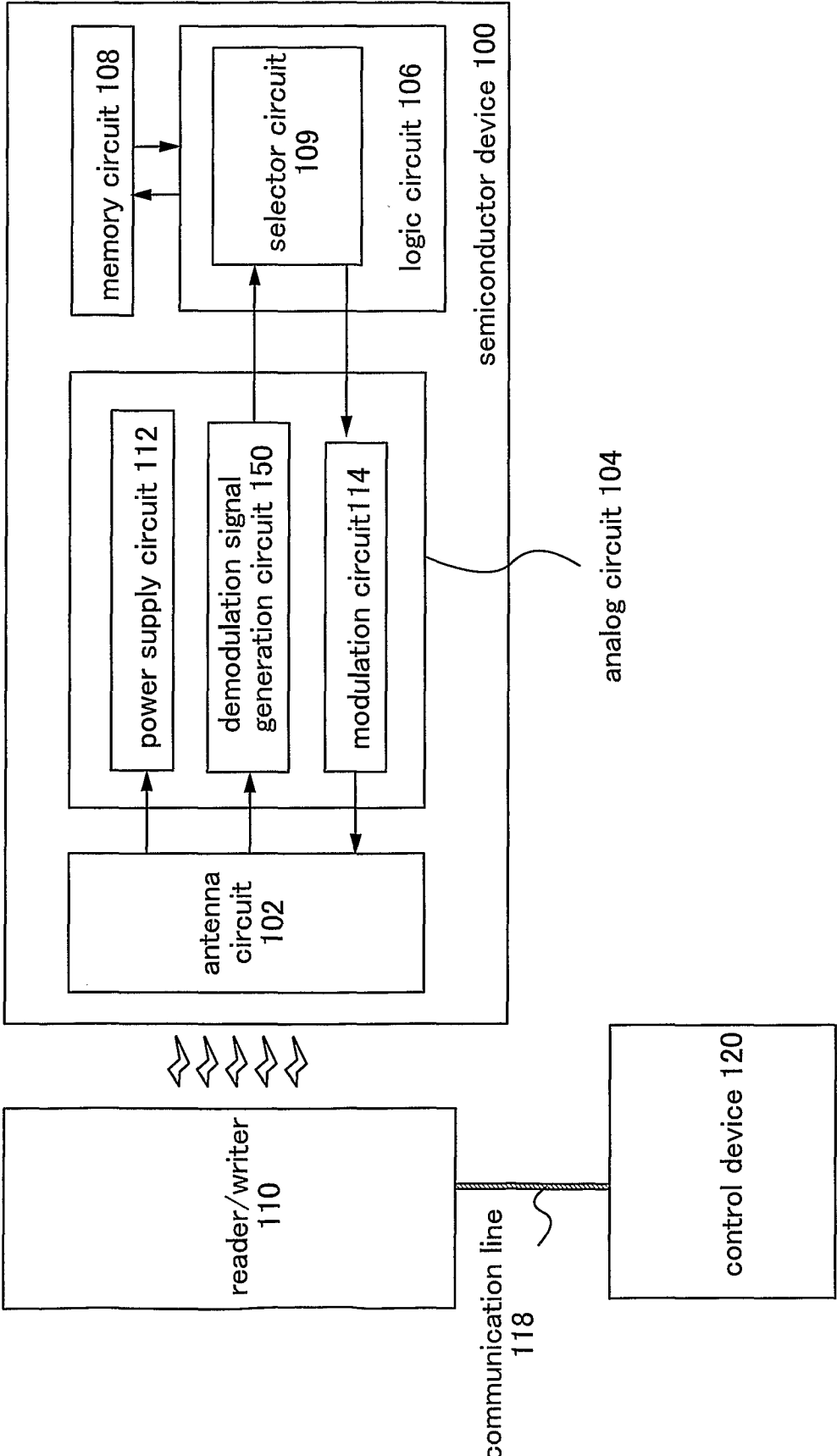


FIG. 3

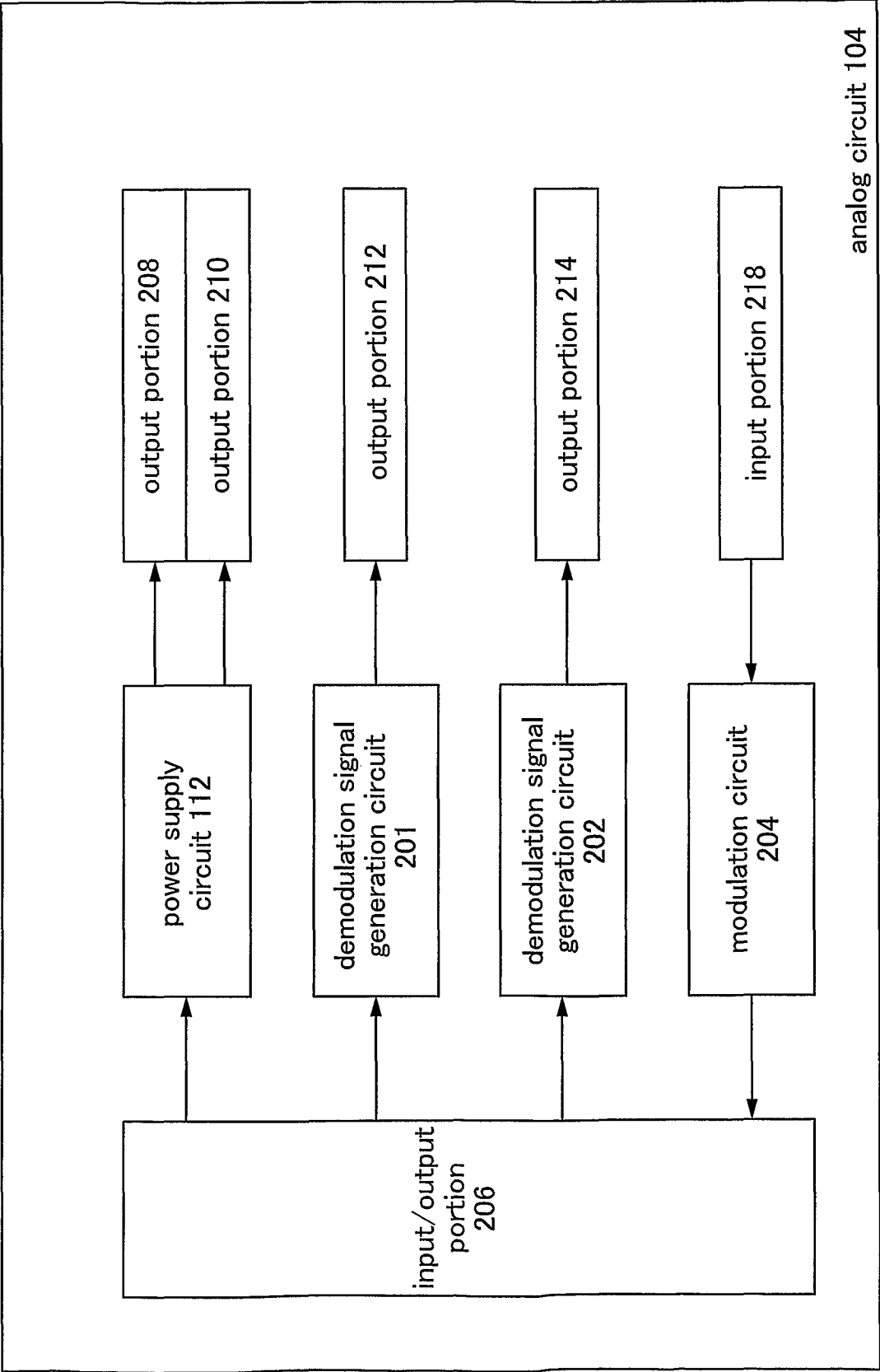


FIG. 4

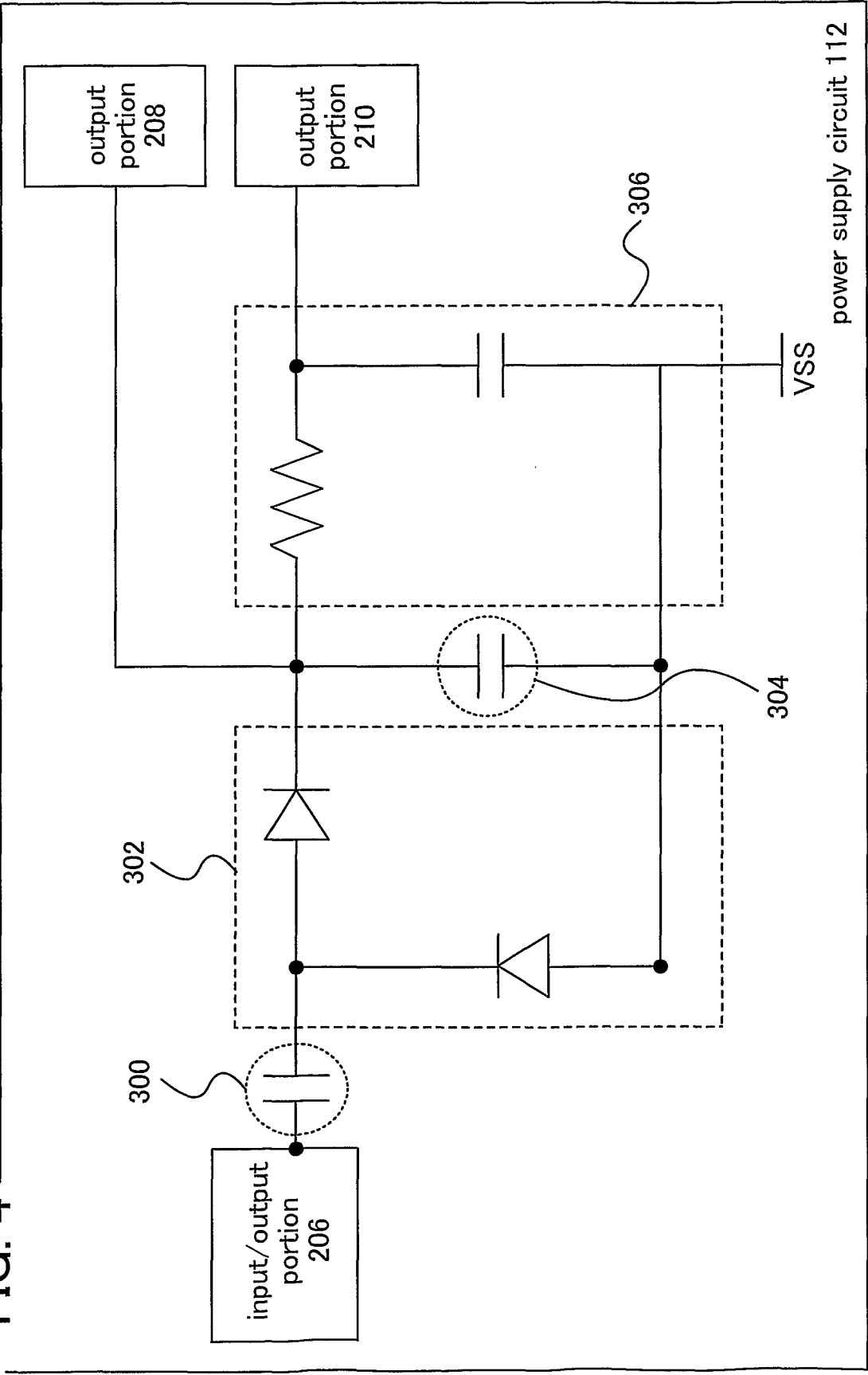


FIG. 5

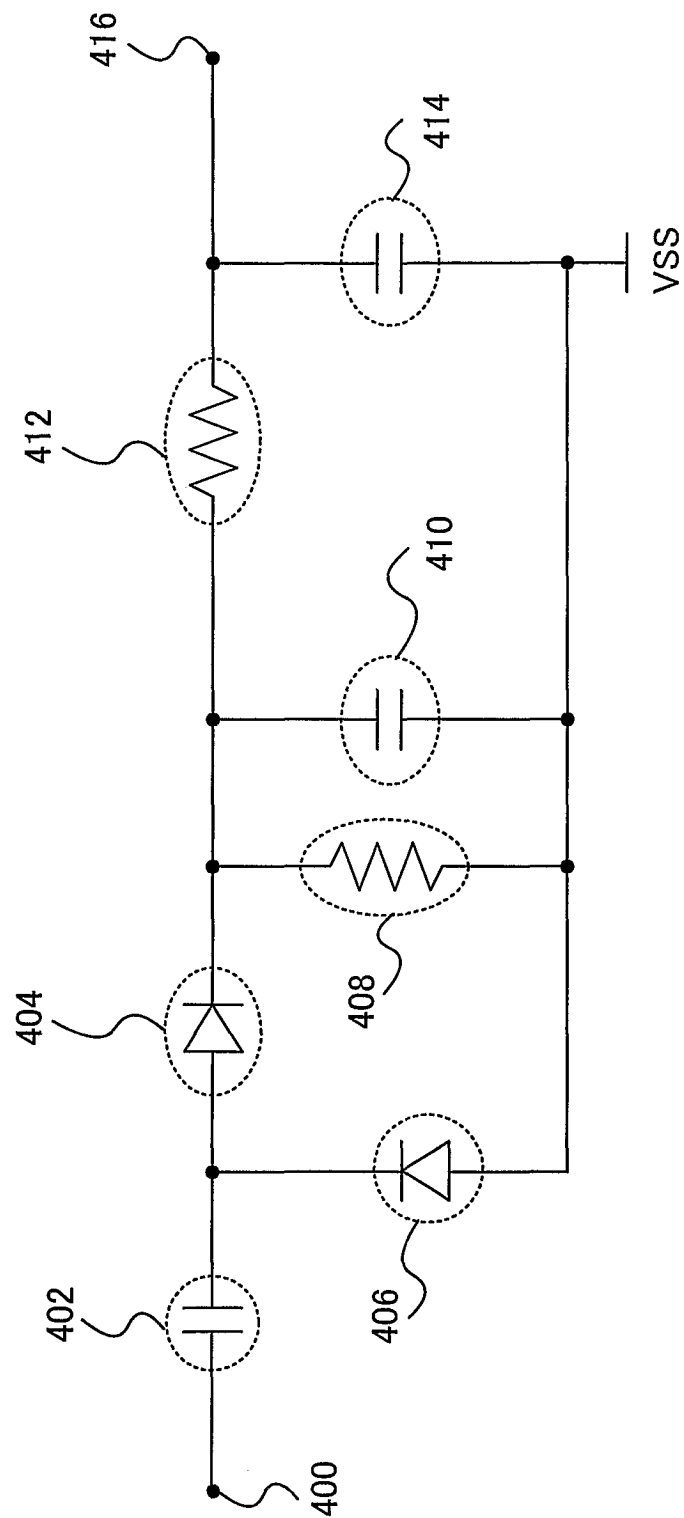
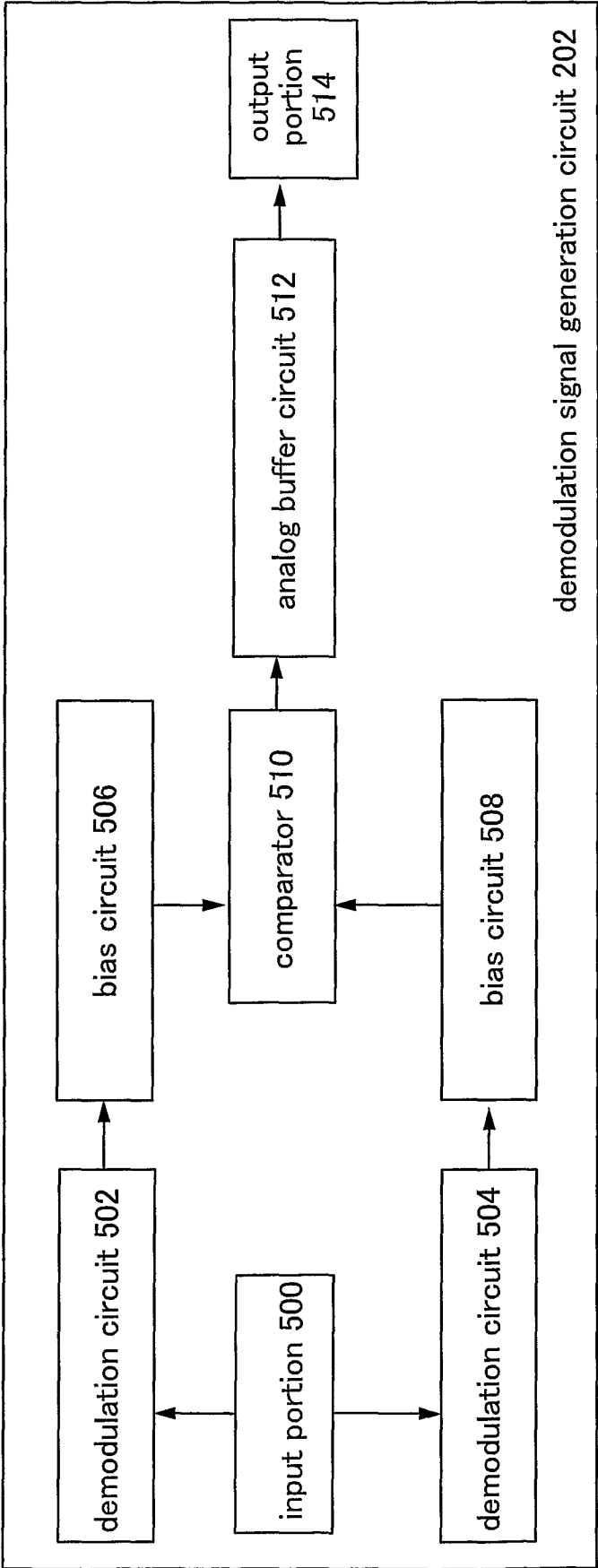


FIG. 6



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FIG. 7A

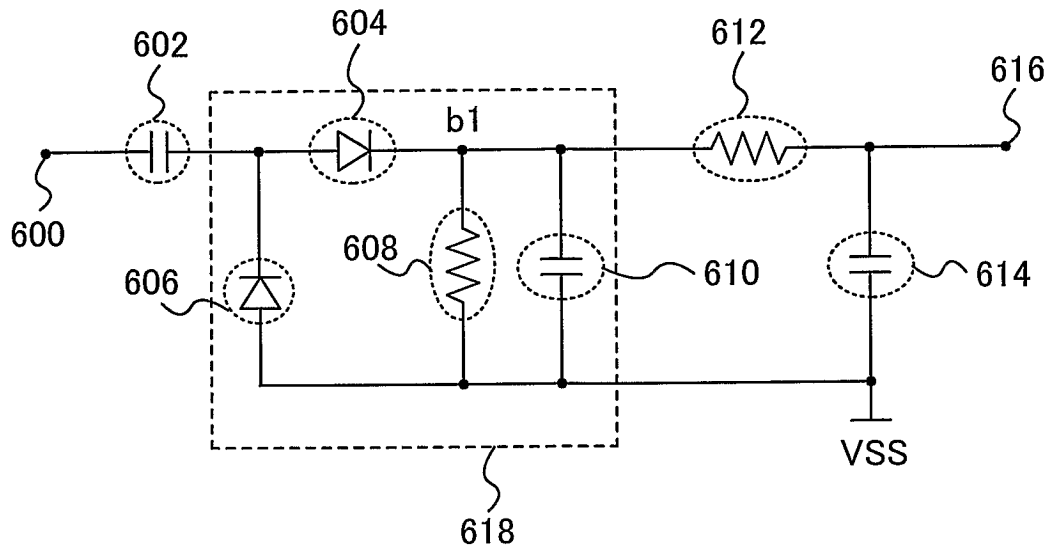


FIG. 7B

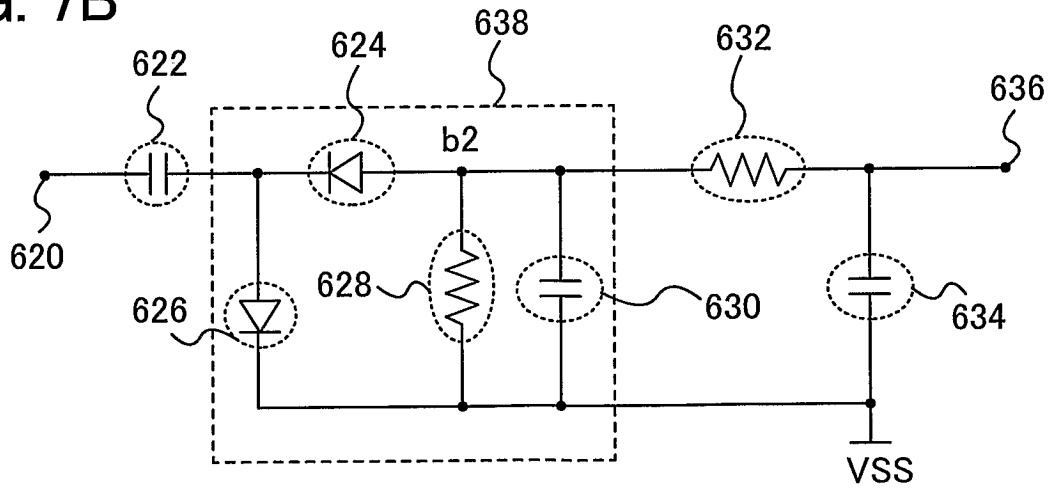


FIG. 7C

FIG. 7D

FIG. 7E

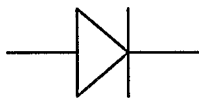
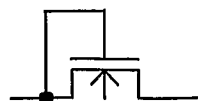
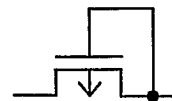


FIG. 8A

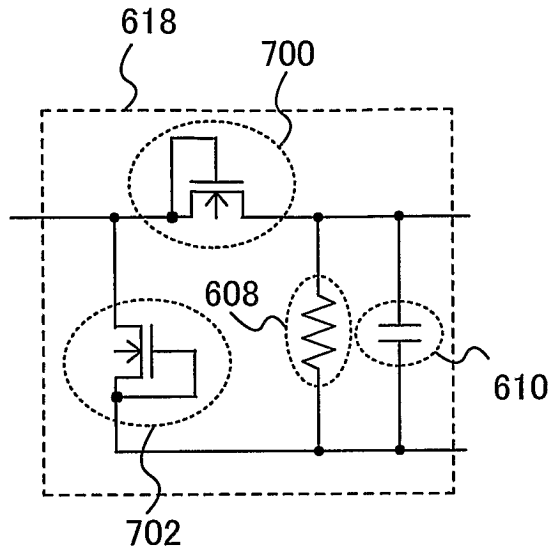


FIG. 8B

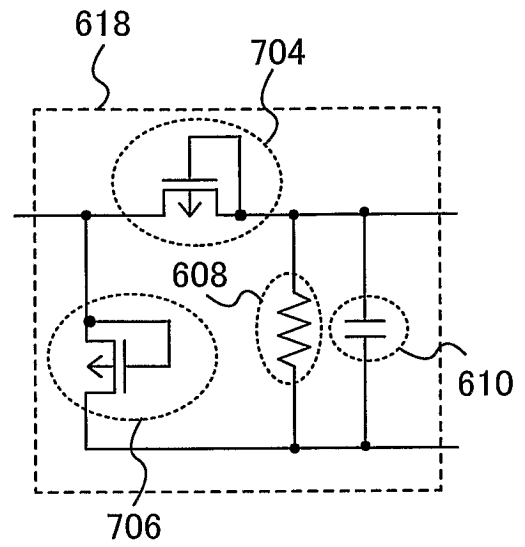


FIG. 8C

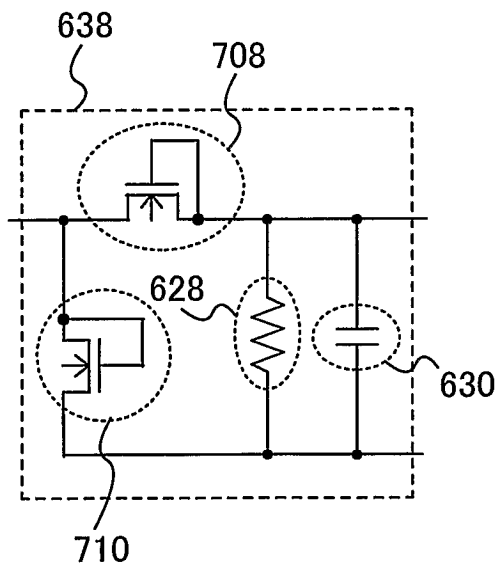
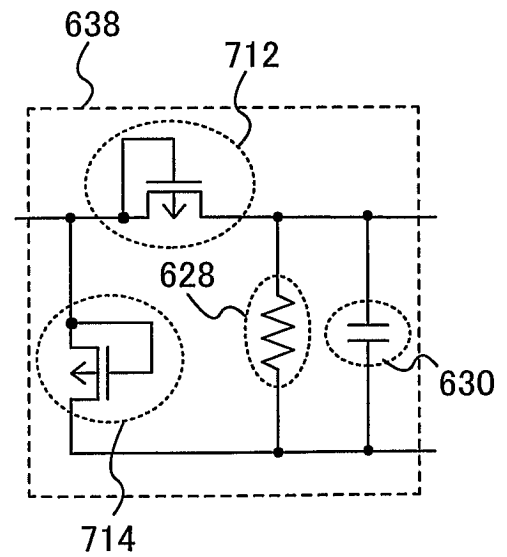
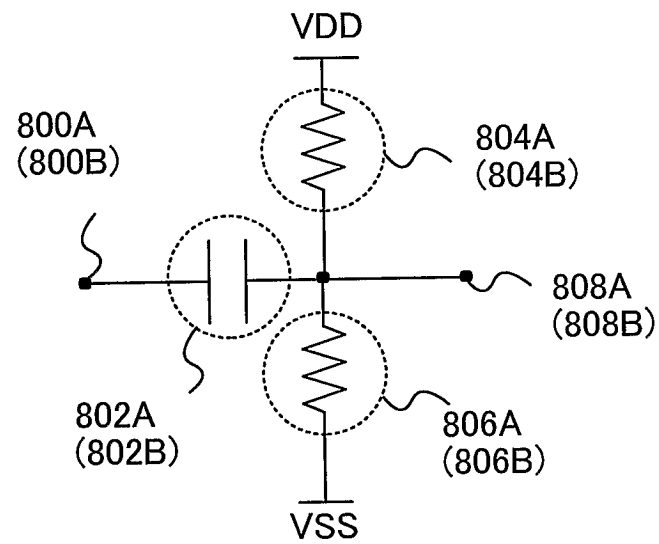


FIG. 8D



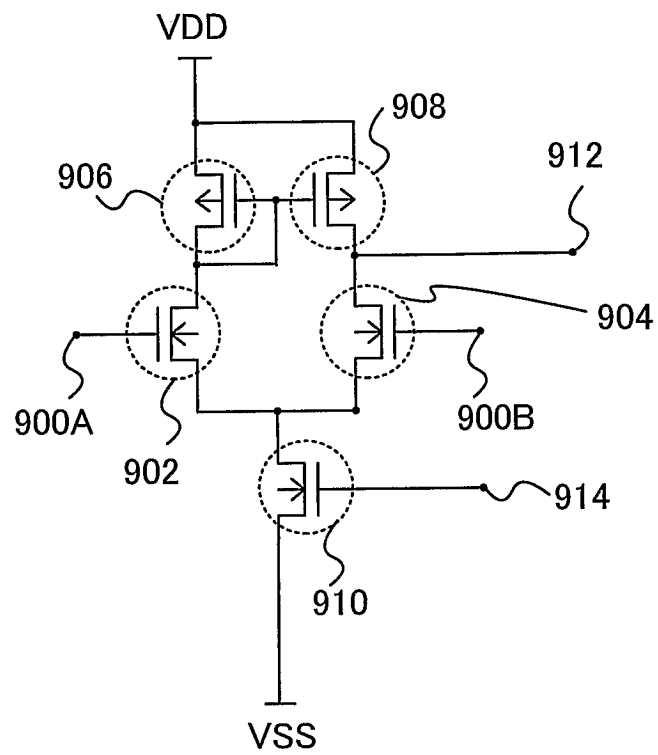
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FIG. 9



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FIG. 10



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FIG. 11A

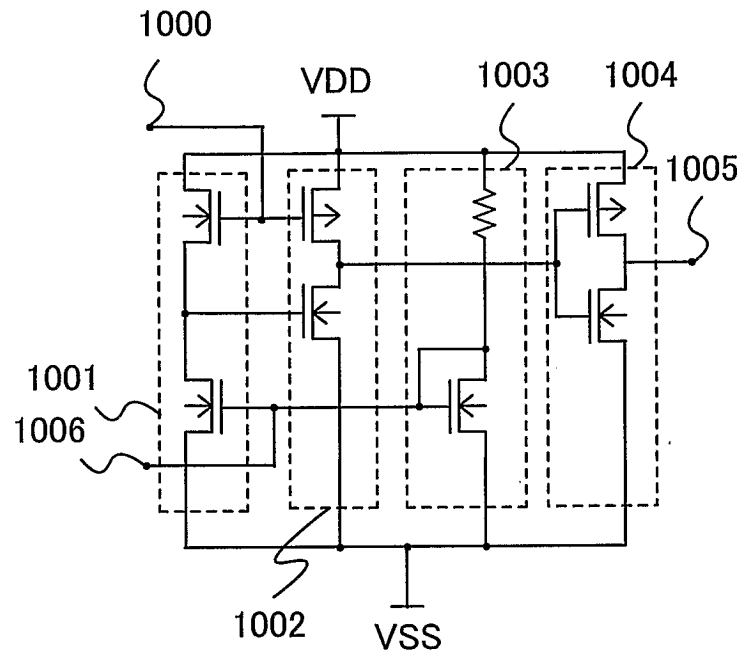


FIG. 11B

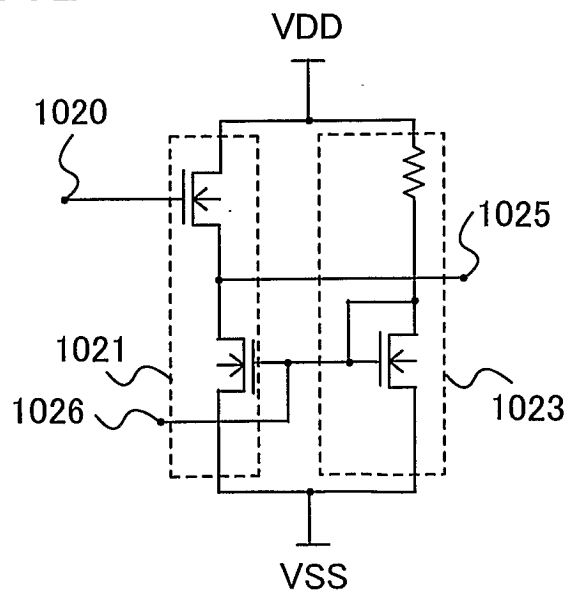
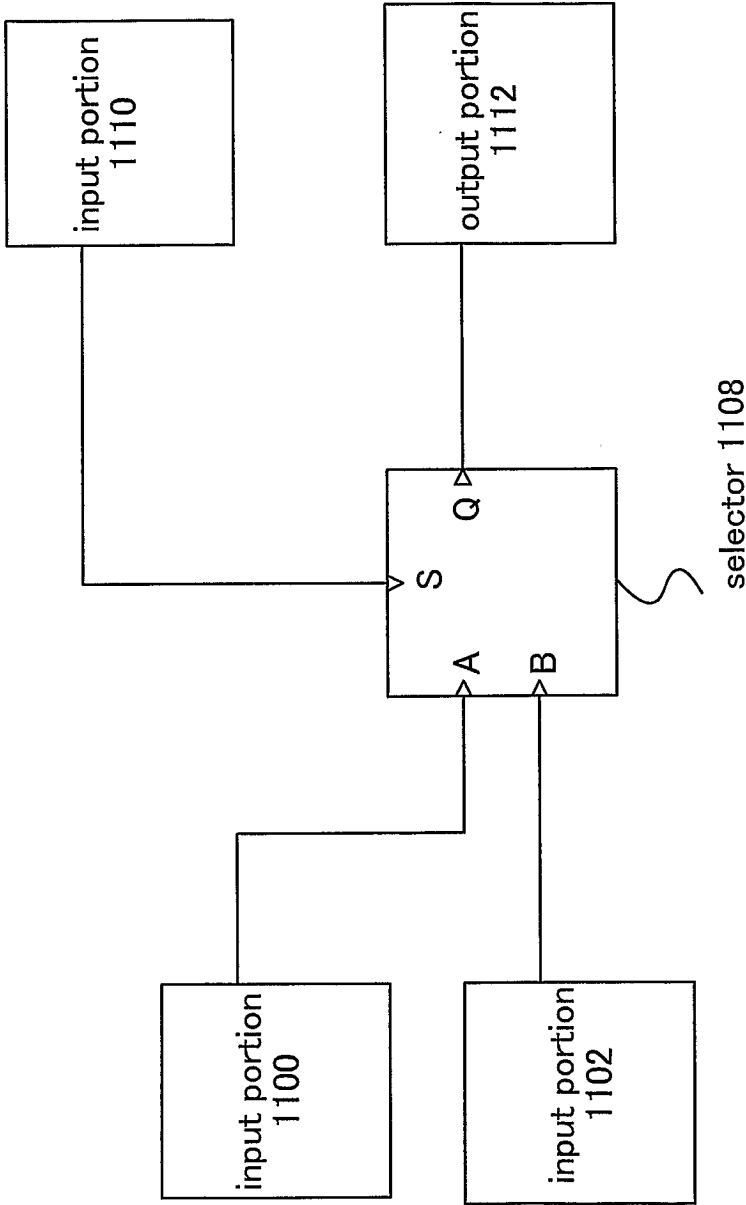


FIG. 12



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FIG. 13A

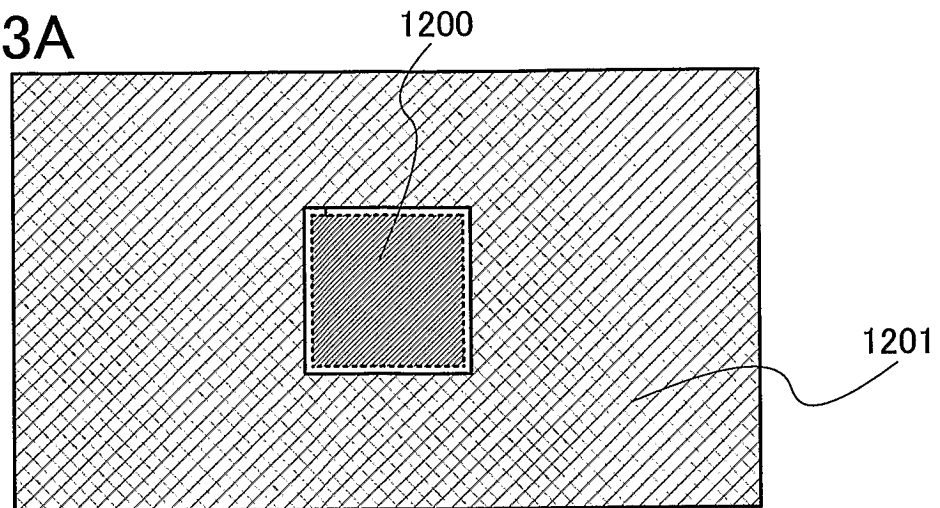


FIG. 13B

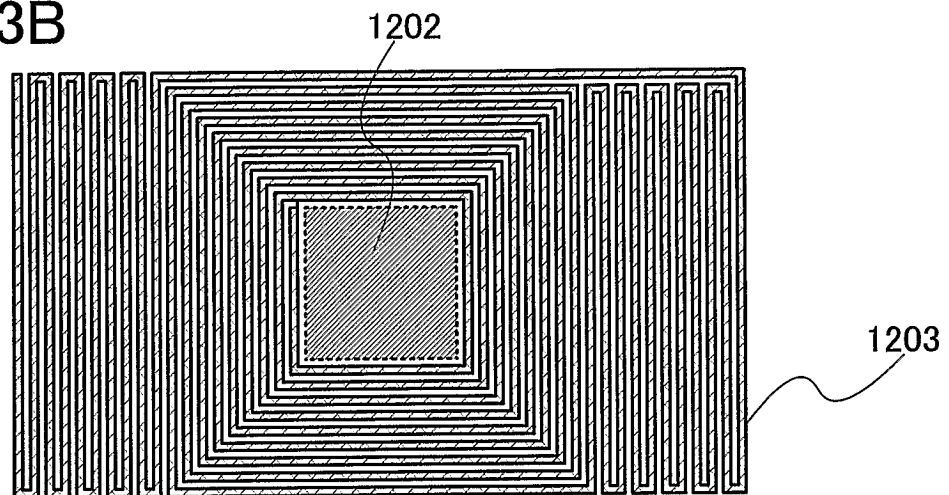


FIG. 13C

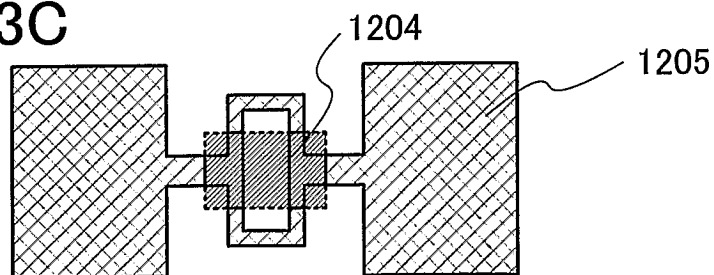


FIG. 13D

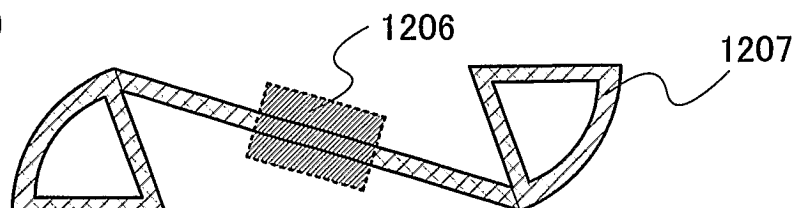


FIG. 13E

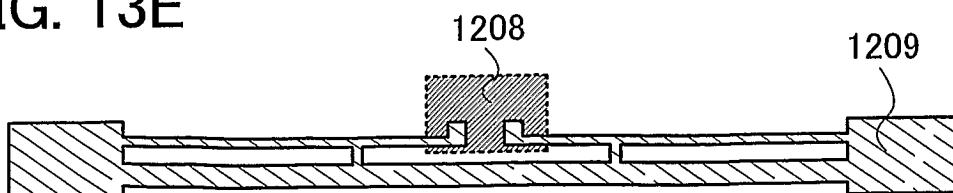


FIG. 14A

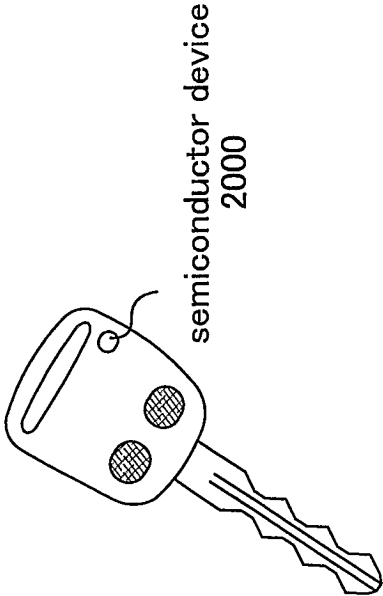


FIG. 14C

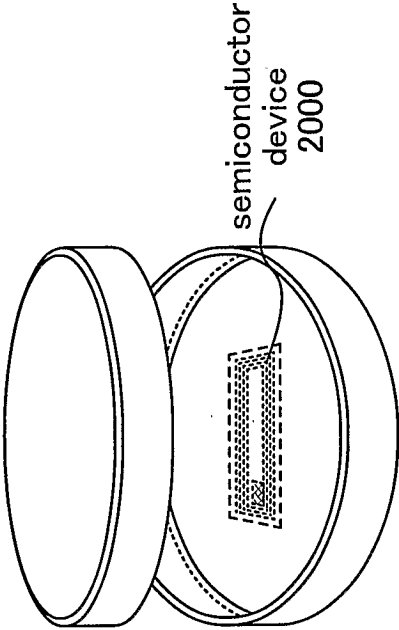


FIG. 14E

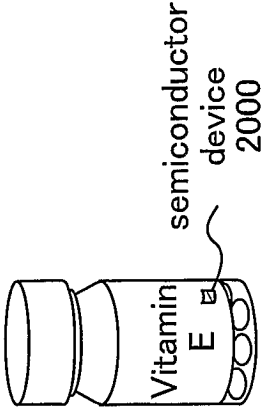


FIG. 14B

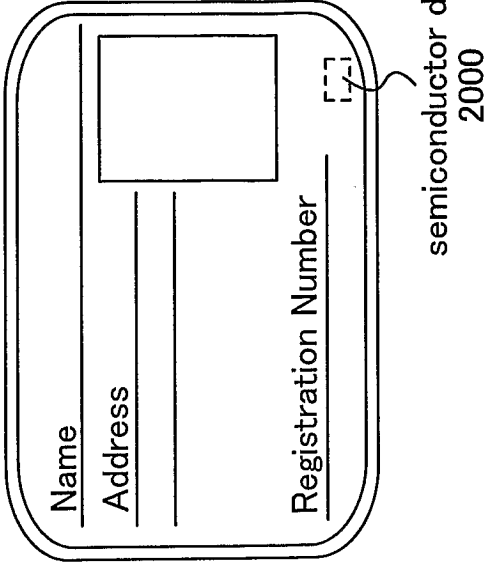


FIG. 14D

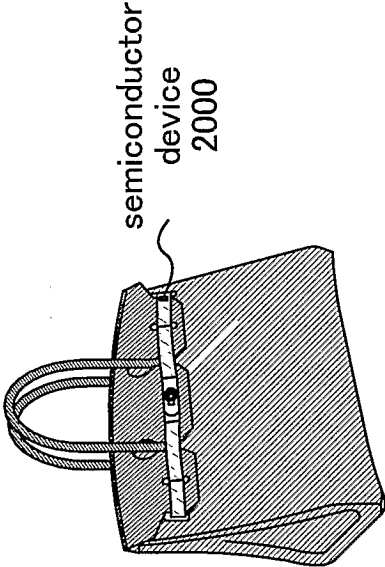


FIG. 14F

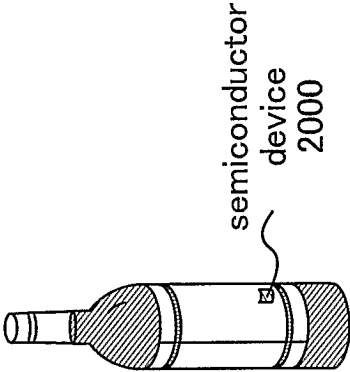
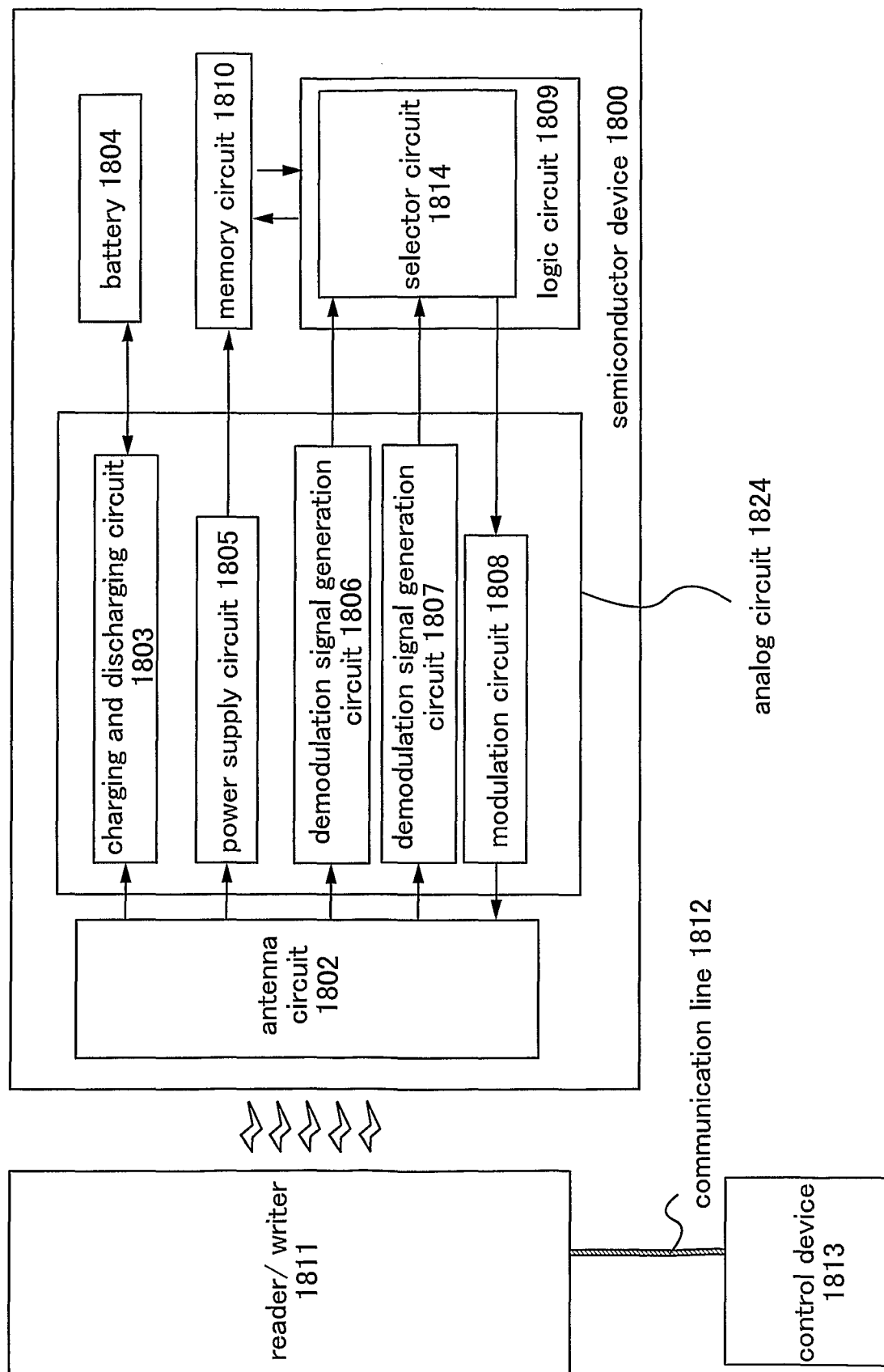


FIG. 15



EXPLANATION OF REFERENCE

100: semiconductor device, 102: antenna circuit, 104: analog circuit, 106:
logic circuit, 108: memory circuit, 109: selector circuit, 110: reader/writer,
5 112: power supply circuit, 114: modulation circuit, 118: communication
line, 120: control device, 131: control circuit, 132: memory control circuit,
150: demodulation signal generation circuit, 201: demodulation signal
generation circuit, 202: demodulation signal generation circuit, 204:
modulation circuit, 206: input/output portion, 208: output portion, 210:
10 output portion, 212: output portion, 214: output portion, 218: input portion,
300: capacitor, 302: rectification portion, 304: smoothing capacitor, 306:
delay circuit, 400: input portion, 402: capacitor, 404: diode, 406: diode,
408: resistor, 410: capacitor, 412: resistor, 414: capacitor, 416: output
portion, 500: input portion, 502: demodulation circuit, 504: demodulation
15 circuit, 506: bias circuit, 508: bias circuit, 510: comparator, 512: analog
buffer circuit, 514: output portion, 600: input portion, 602: capacitor, 604:
diode, 606: diode, 608: resistor, 610: capacitor, 612: resistor, 614: capacitor,
616: output portion, 618: circuit, 620: input portion, 622: capacitor, 624:
diode, 626: diode, 628: resistor, 630: capacitor, 632: resistor, 634: capacitor,
20 636: output portion, 638: circuit, 700: n-channel TFT, 702: n-channel TFT,
704: p-channel TFT, 706: p-channel TFT, 708: n-channel TFT, 710:
n-channel TFT, 712: p-channel TFT, 714: p-channel TFT, 800A: input
portion, 800B: input portion, 802A: capacitor, 802B: capacitor, 804A:
resistor, 804B: resistor, 806A: resistor, 806B: resistor, 808A: output portion,
25 808B: output portion, 900A: input portion, 900B: input portion, 902: TFT,
904: TFT, 906: TFT, 908: TFT, 910: TFT, 912: output portion, 914: wiring,
1000: input portion, 1001: source follower circuit, 1002: inverter circuit,

1003: constant current circuit, 1004: inverter circuit, 1005: output portion,
1006: wiring, 1020: input portion, 1021: source follower circuit, 1023:
constant current circuit, 1025: output portion, 1026: wiring, 1100: input
portion, 1102: input portion, 1108: selector, 1110: input portion, 1112:
5 output portion, 1200: chip, 1201: antenna, 1202: chip, 1203: antenna, 1204:
chip, 1205: antenna, 1206: chip, 1207: antenna, 1208: chip, 1209: antenna,
1800: semiconductor device, 1802: antenna circuit, 1803: charging and
discharging circuit, 1804: battery, 1805: power supply circuit, 1806:
demodulation signal generation circuit, 1807: demodulation signal
10 generation circuit, 1808: modulation circuit, 1809: logic circuit, 1810:
memory circuit, 1811: reader/writer, 1812: communication line, 1813:
control device, 1814: selector circuit, 1824: analog circuit, and 2000:
semiconductor device.