

FIG. 1A

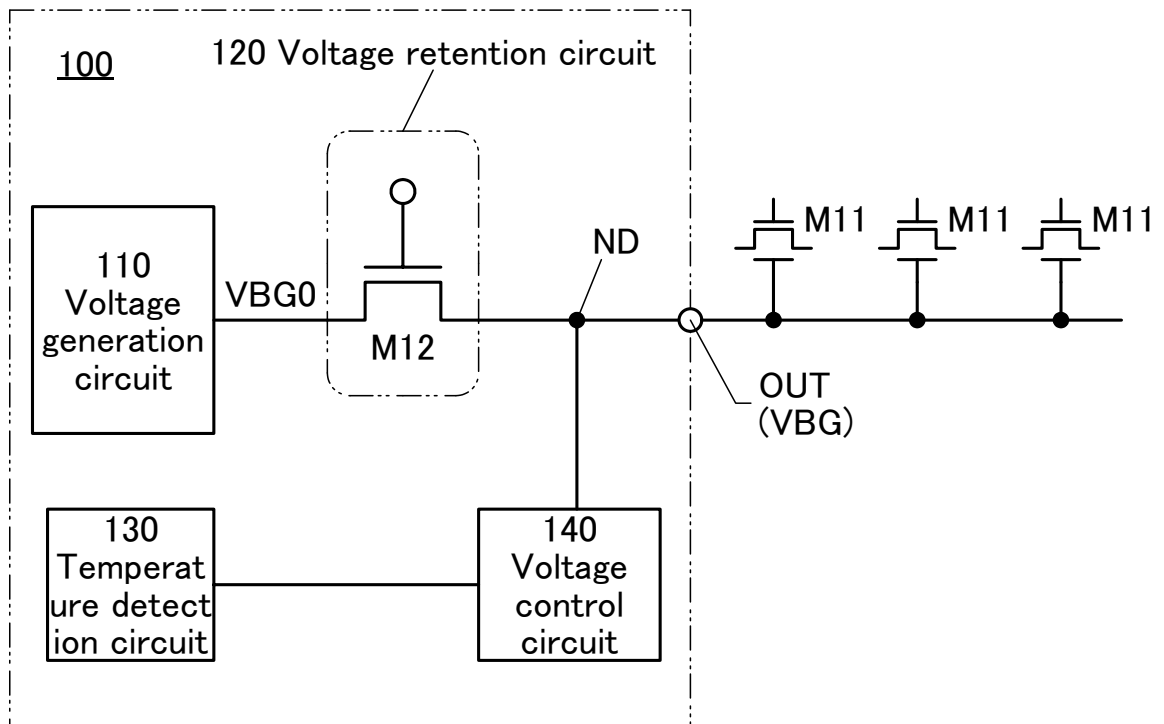


FIG. 1B

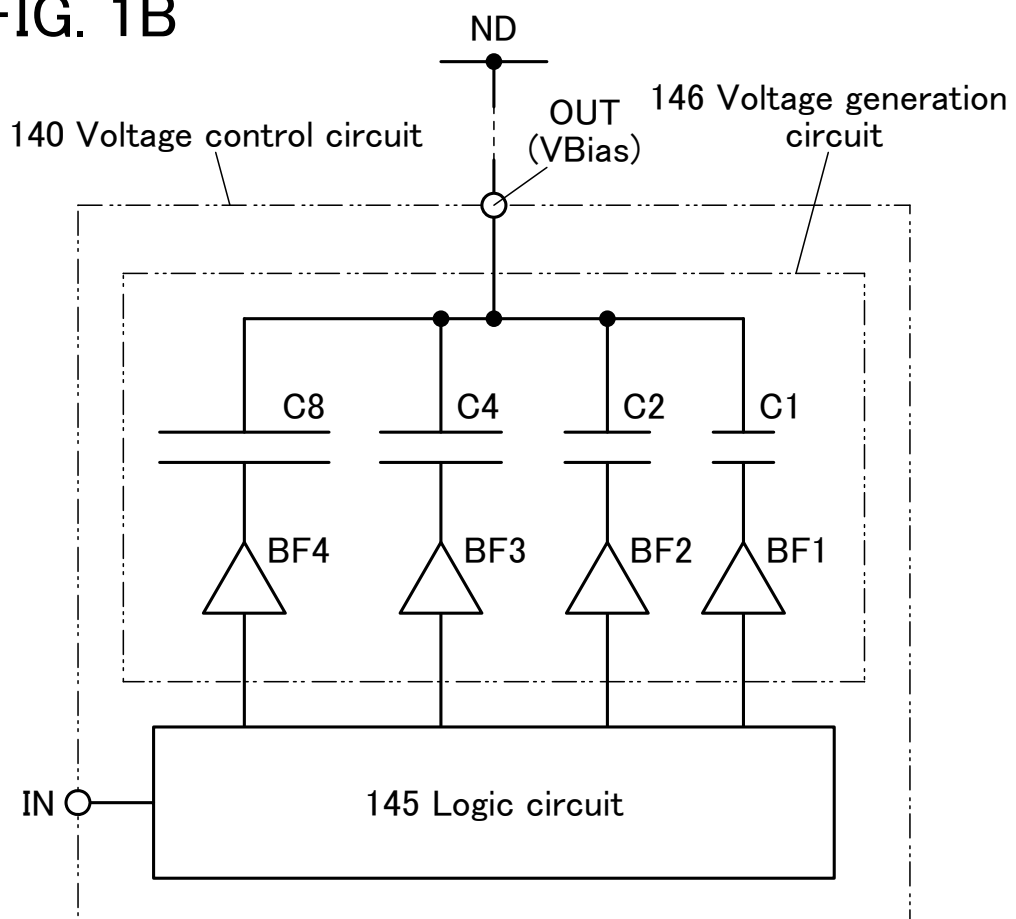


FIG. 2A

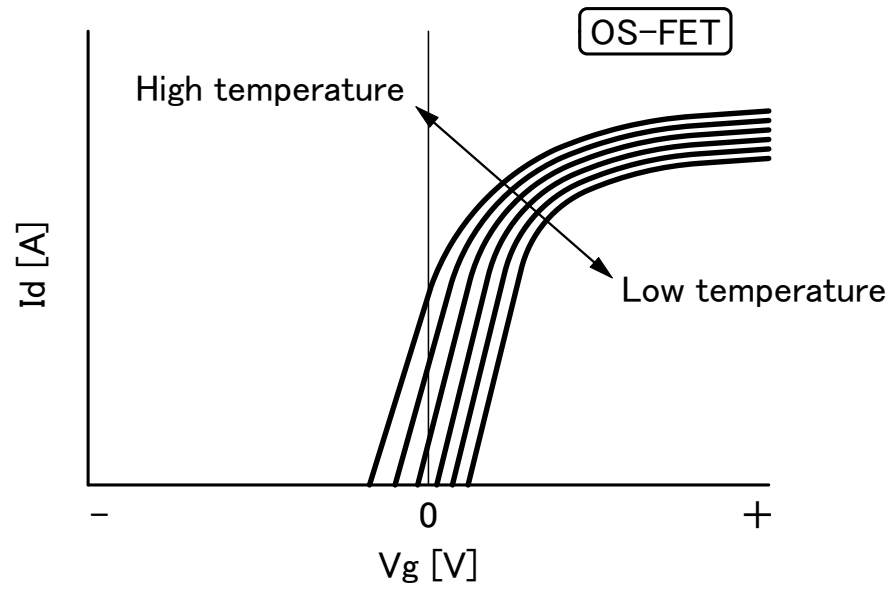


FIG. 2B

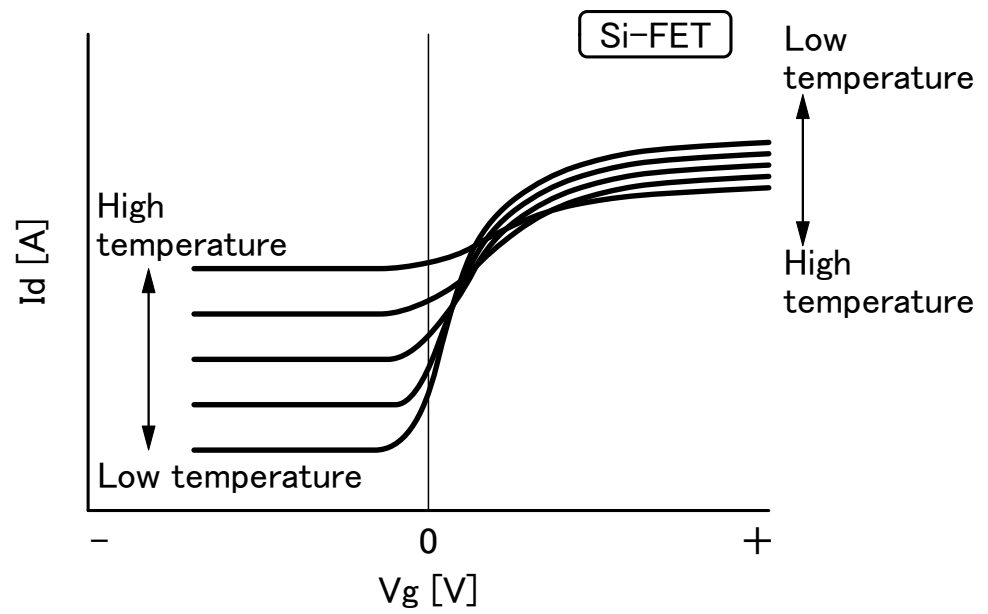


FIG. 3A

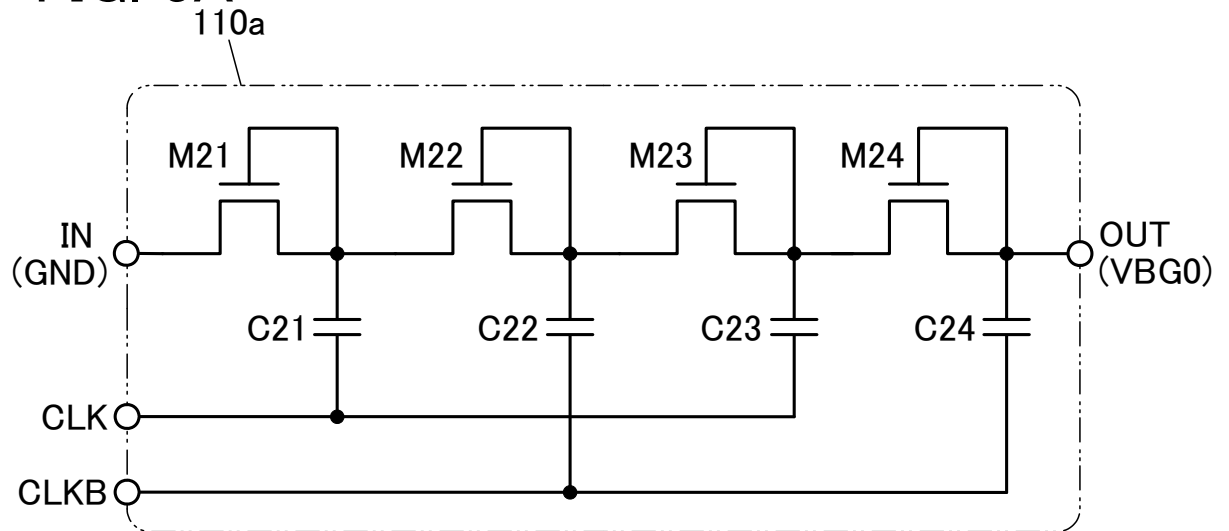


FIG. 3B

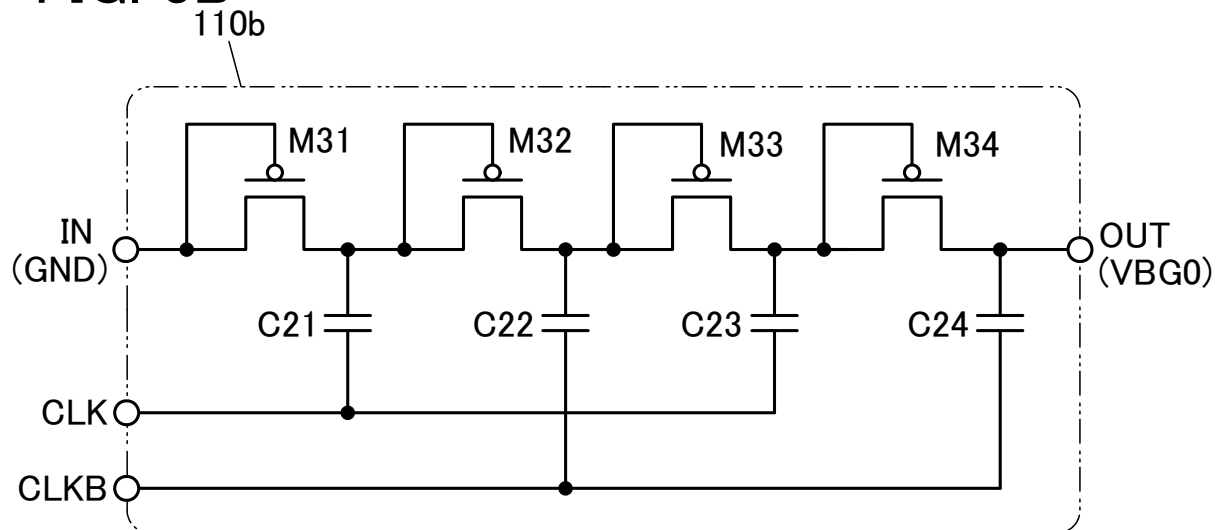


FIG. 4A

120 Voltage retention circuit

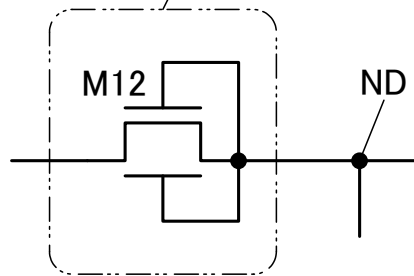


FIG. 4B

120 Voltage retention circuit

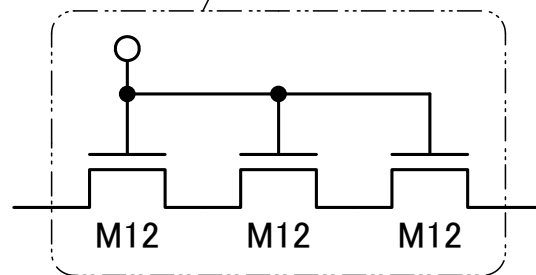


FIG. 4C

120 Voltage retention circuit

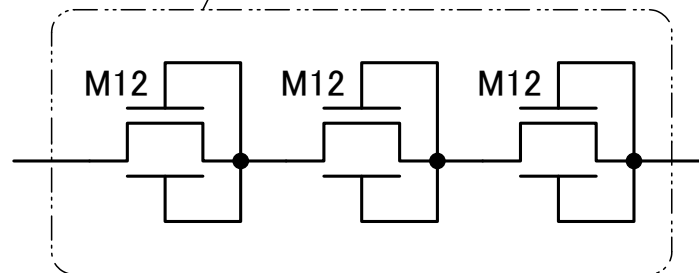


FIG. 5

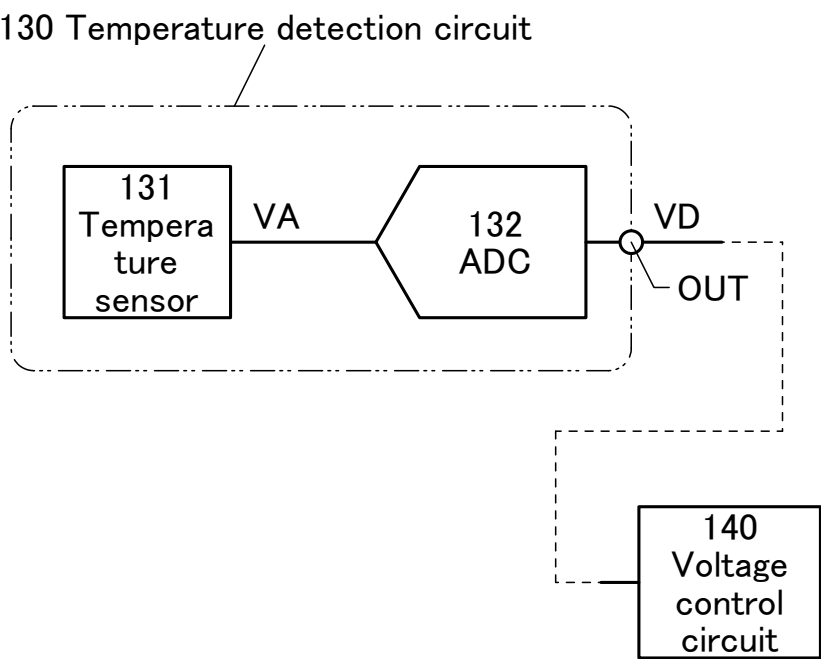


FIG. 6A

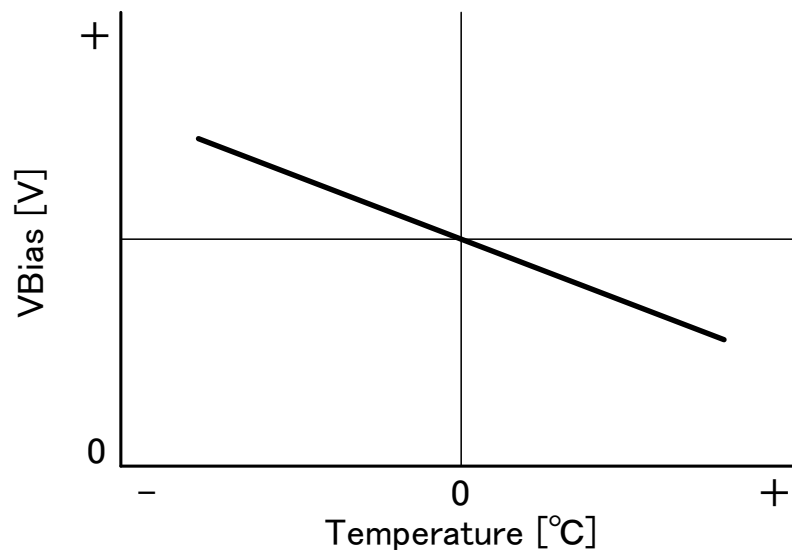


FIG. 6B

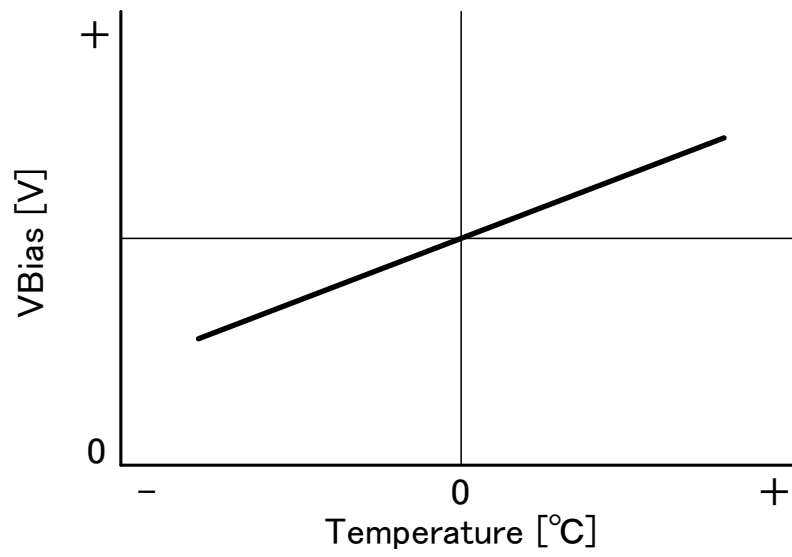


FIG. 6C

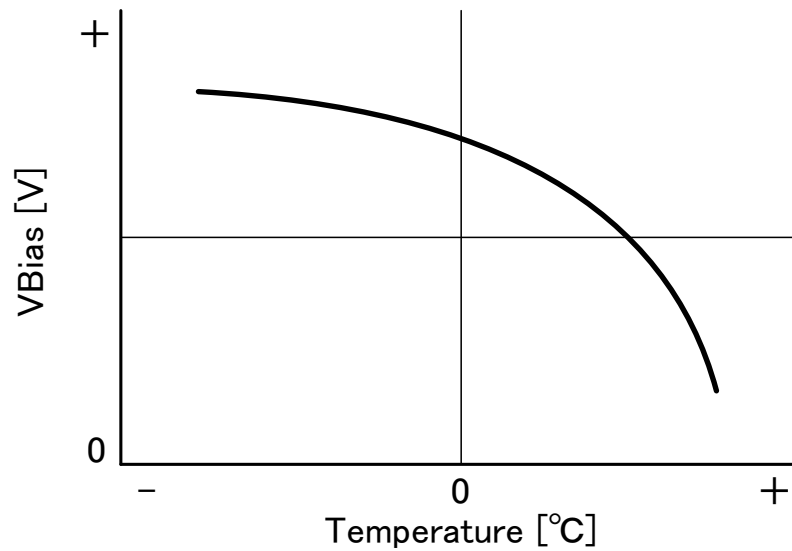


FIG. 7

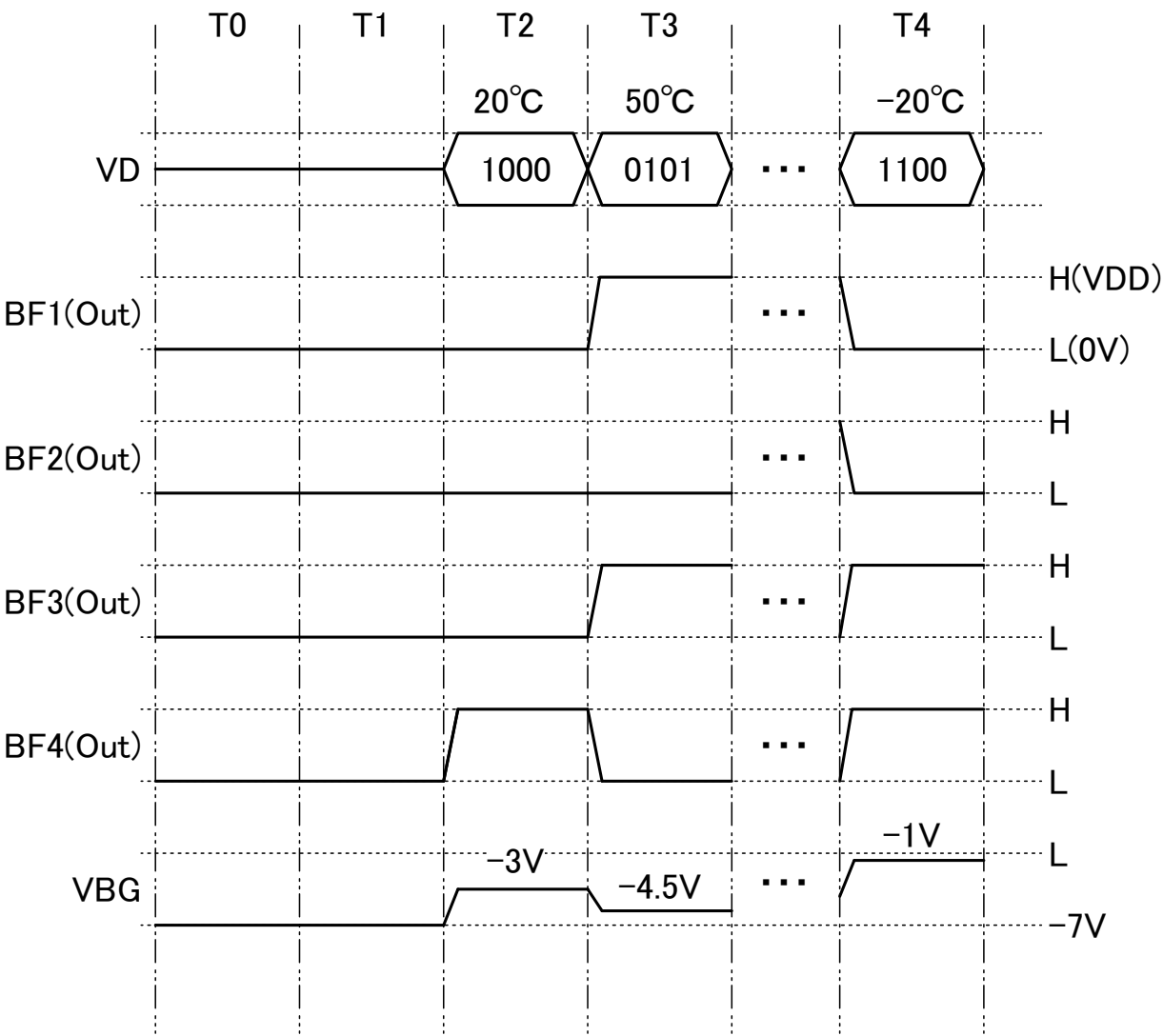


FIG. 8

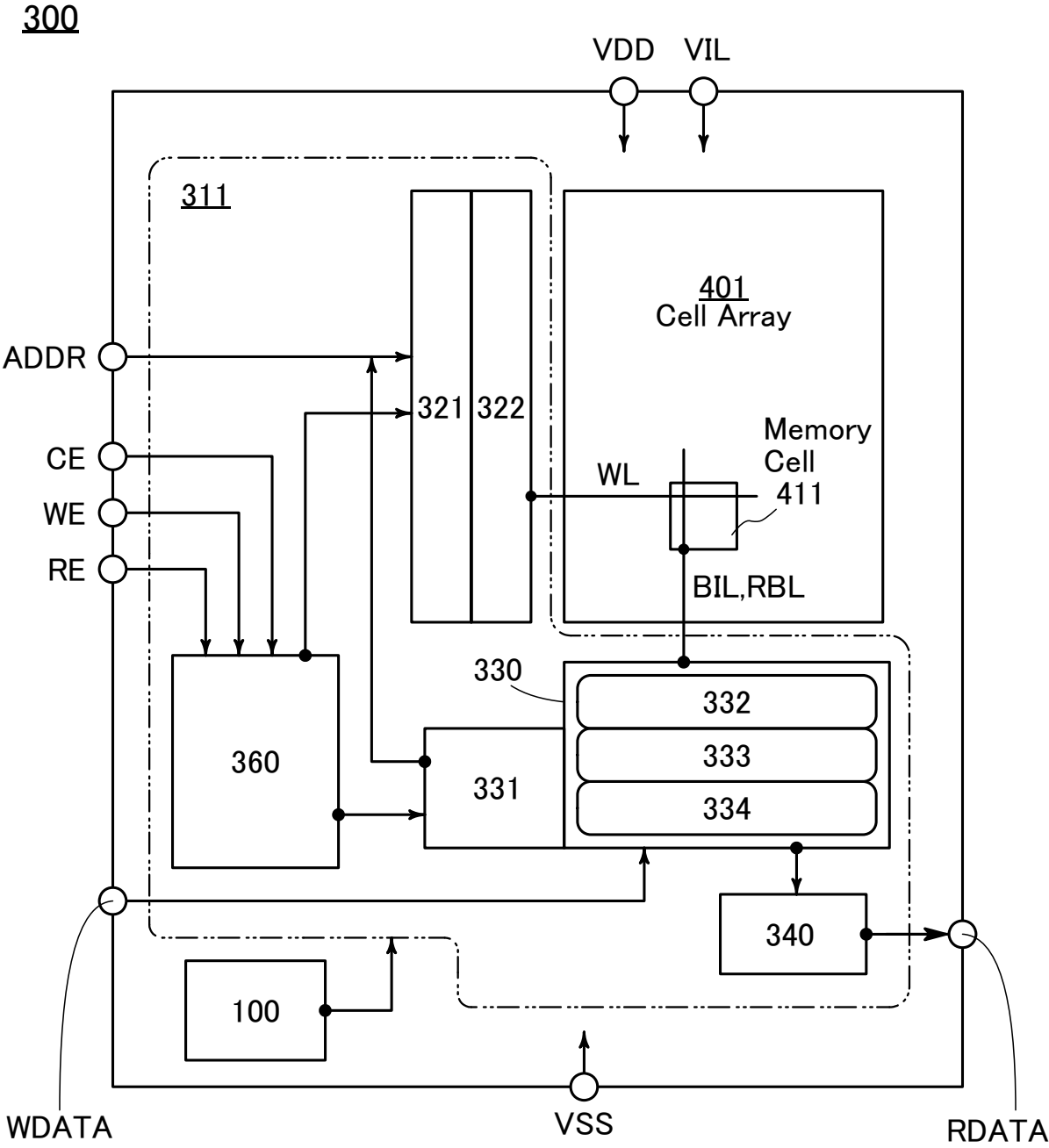


FIG. 9

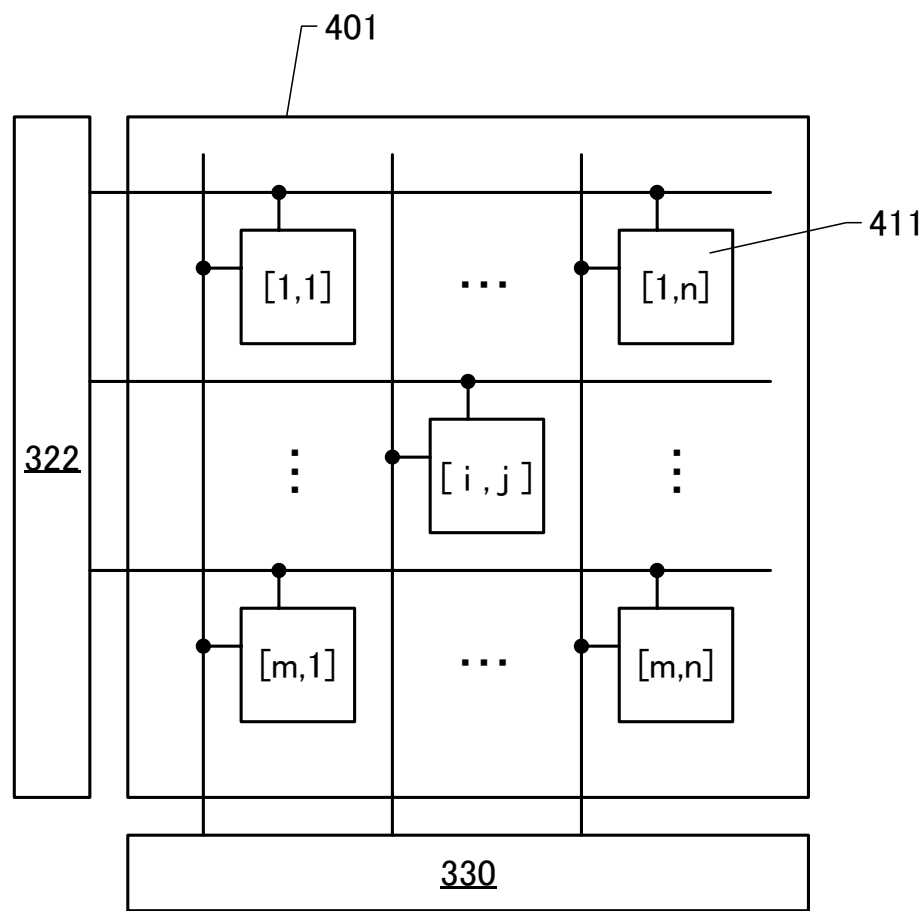


FIG. 10A

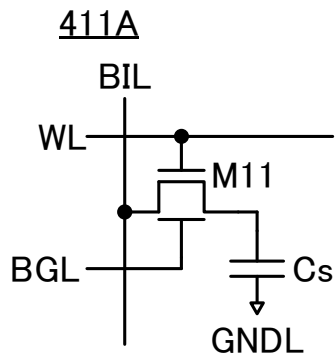


FIG. 10B

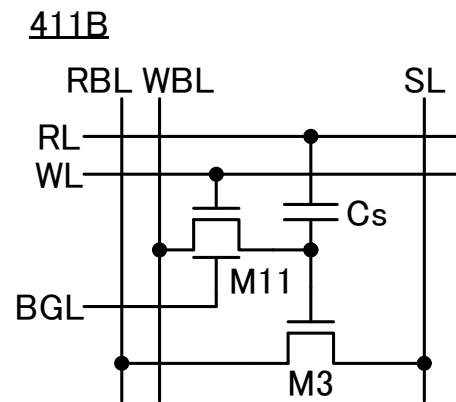


FIG. 10C

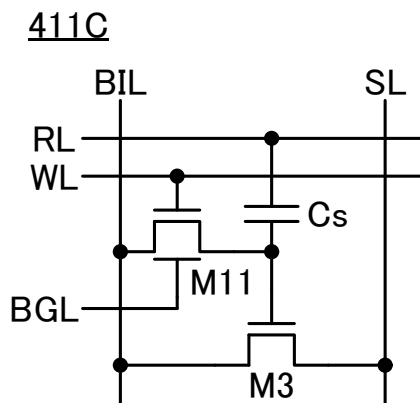


FIG. 10D

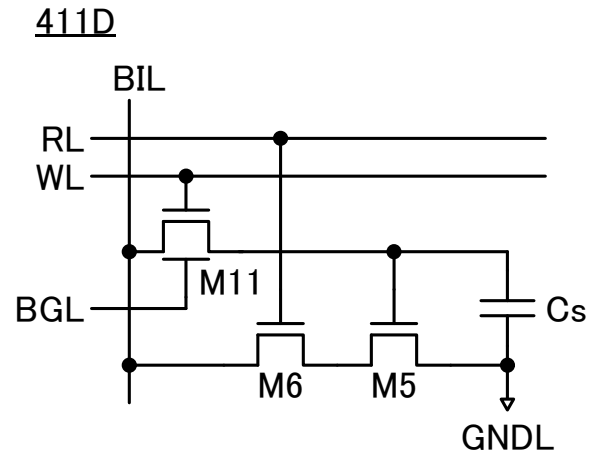


FIG. 10E

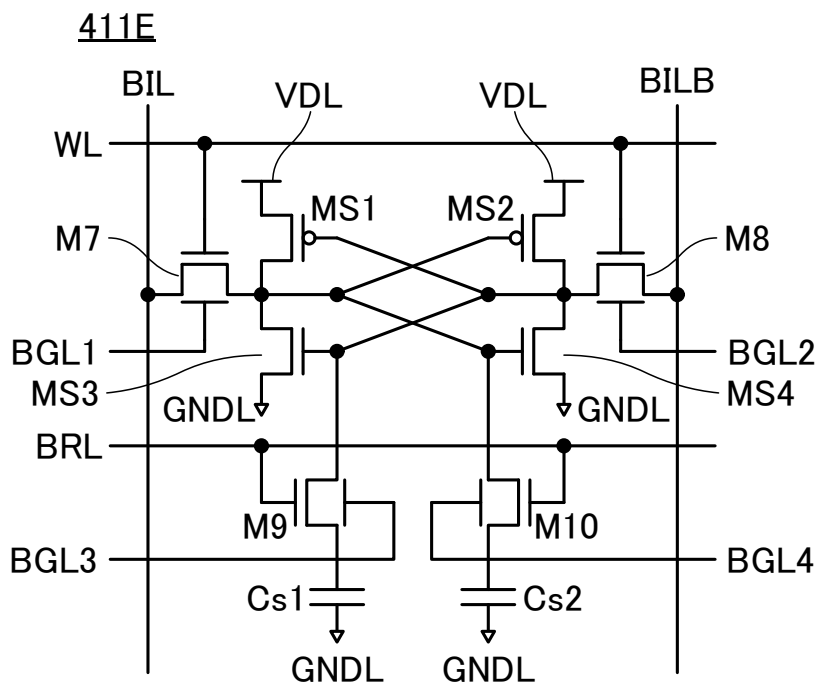


FIG. 11

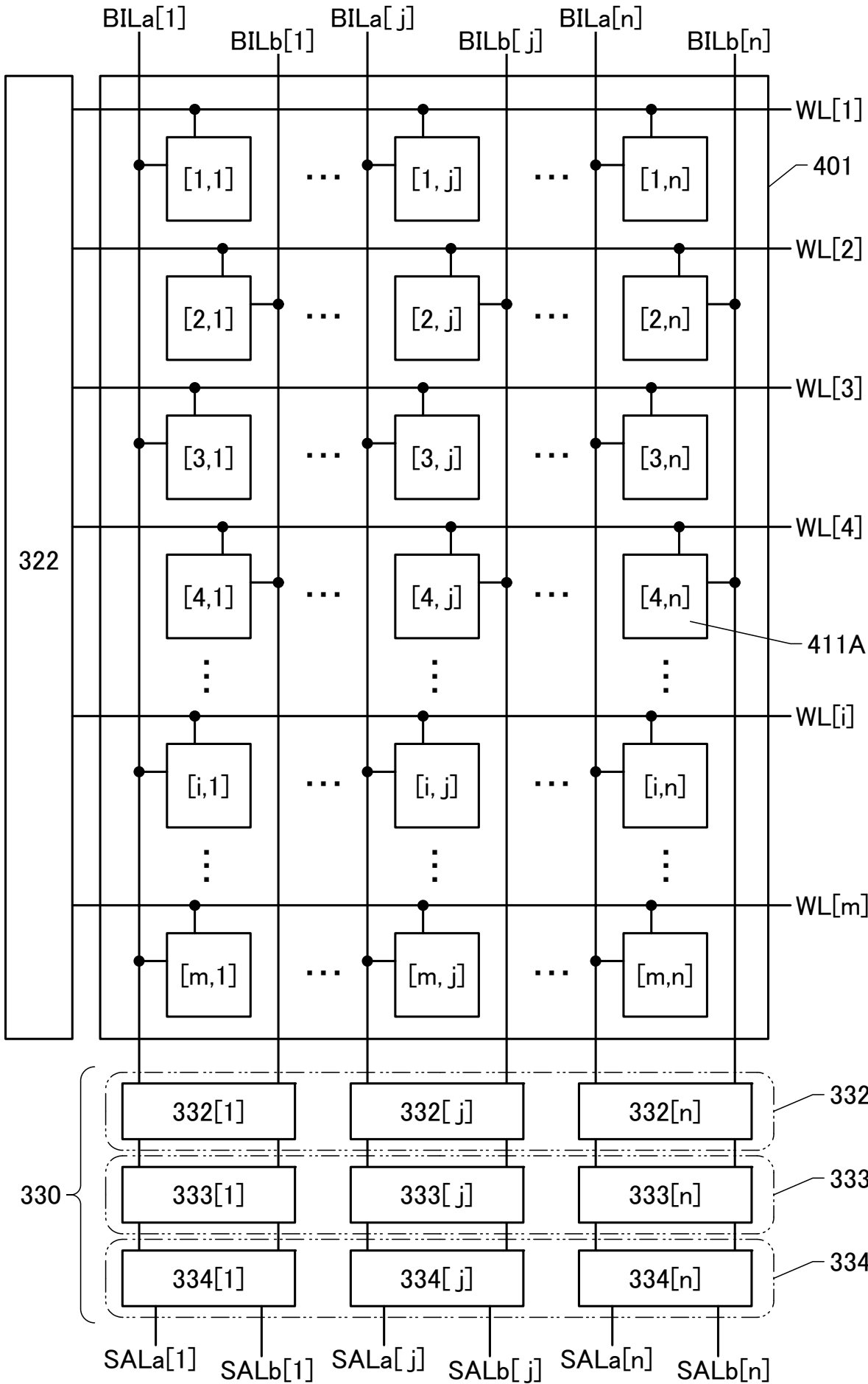


FIG. 12

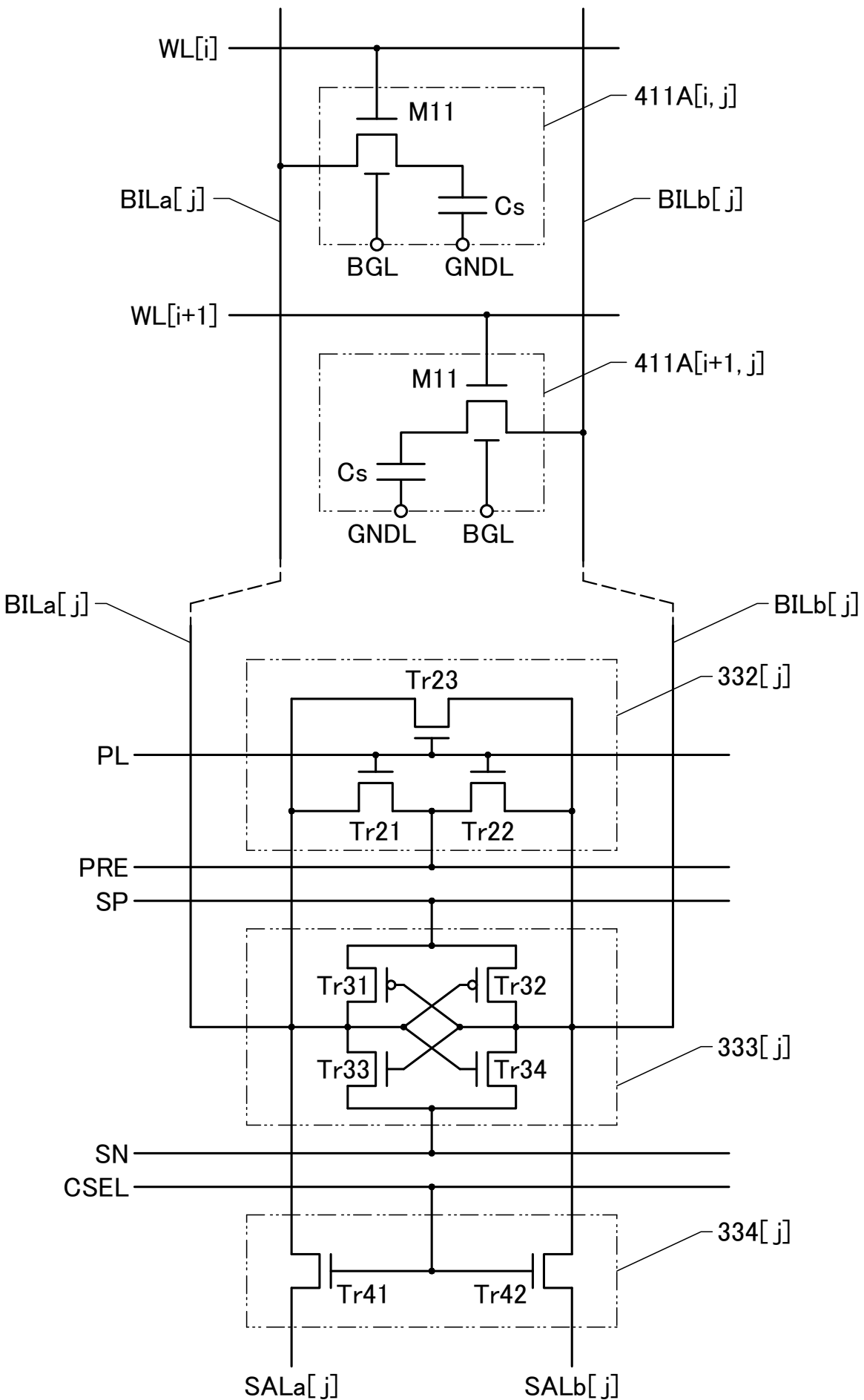


FIG. 13

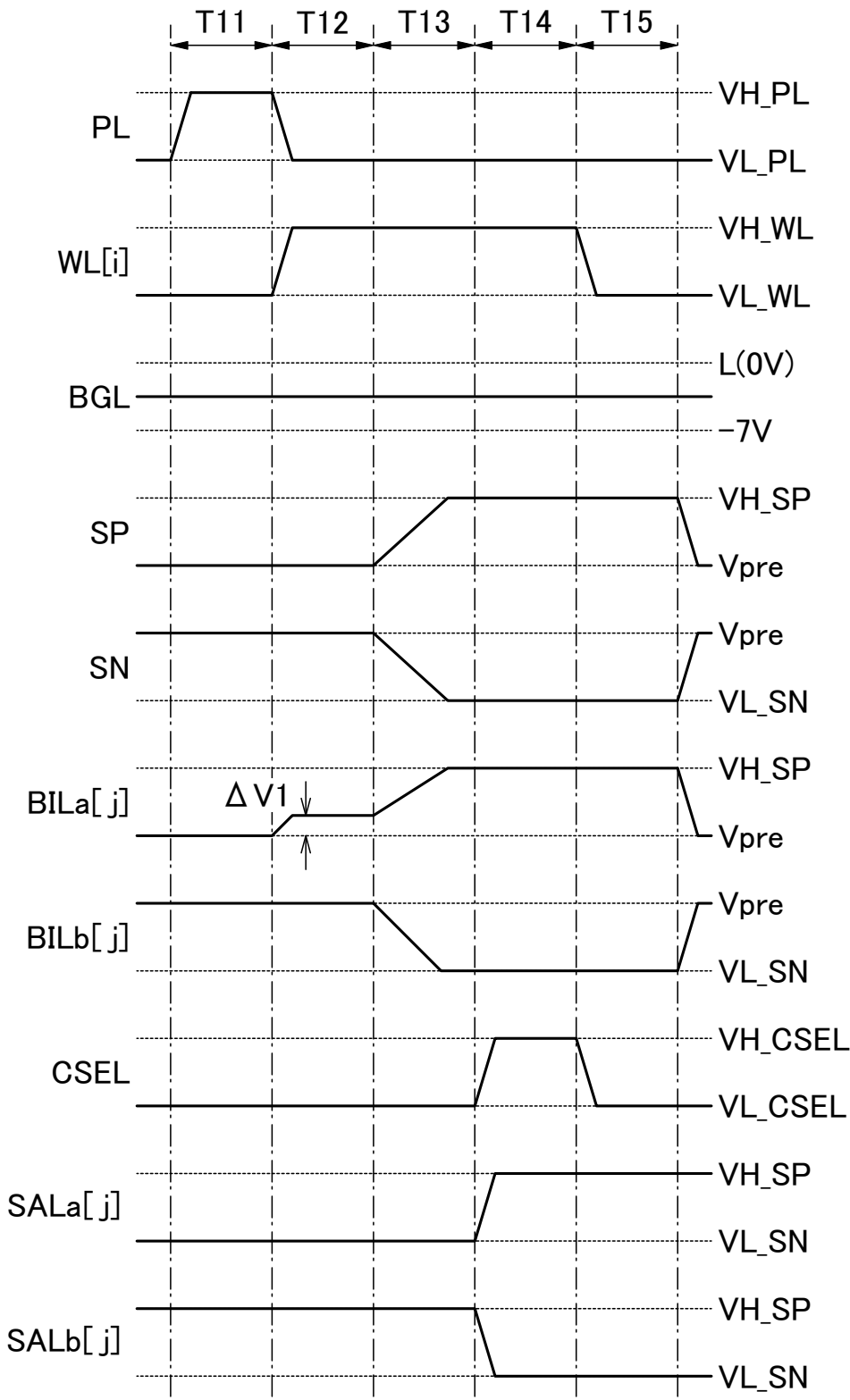


FIG. 14

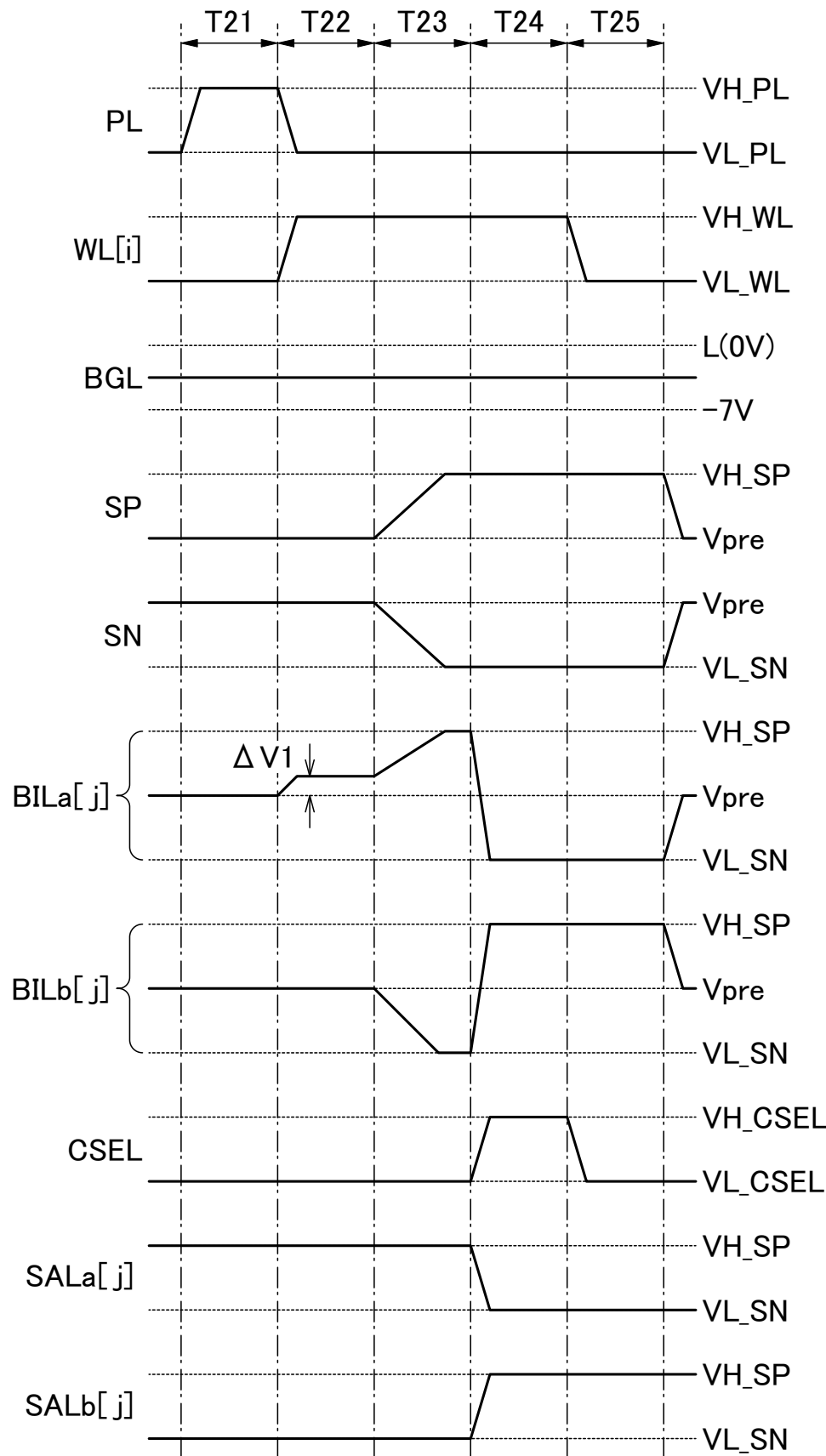


FIG. 15

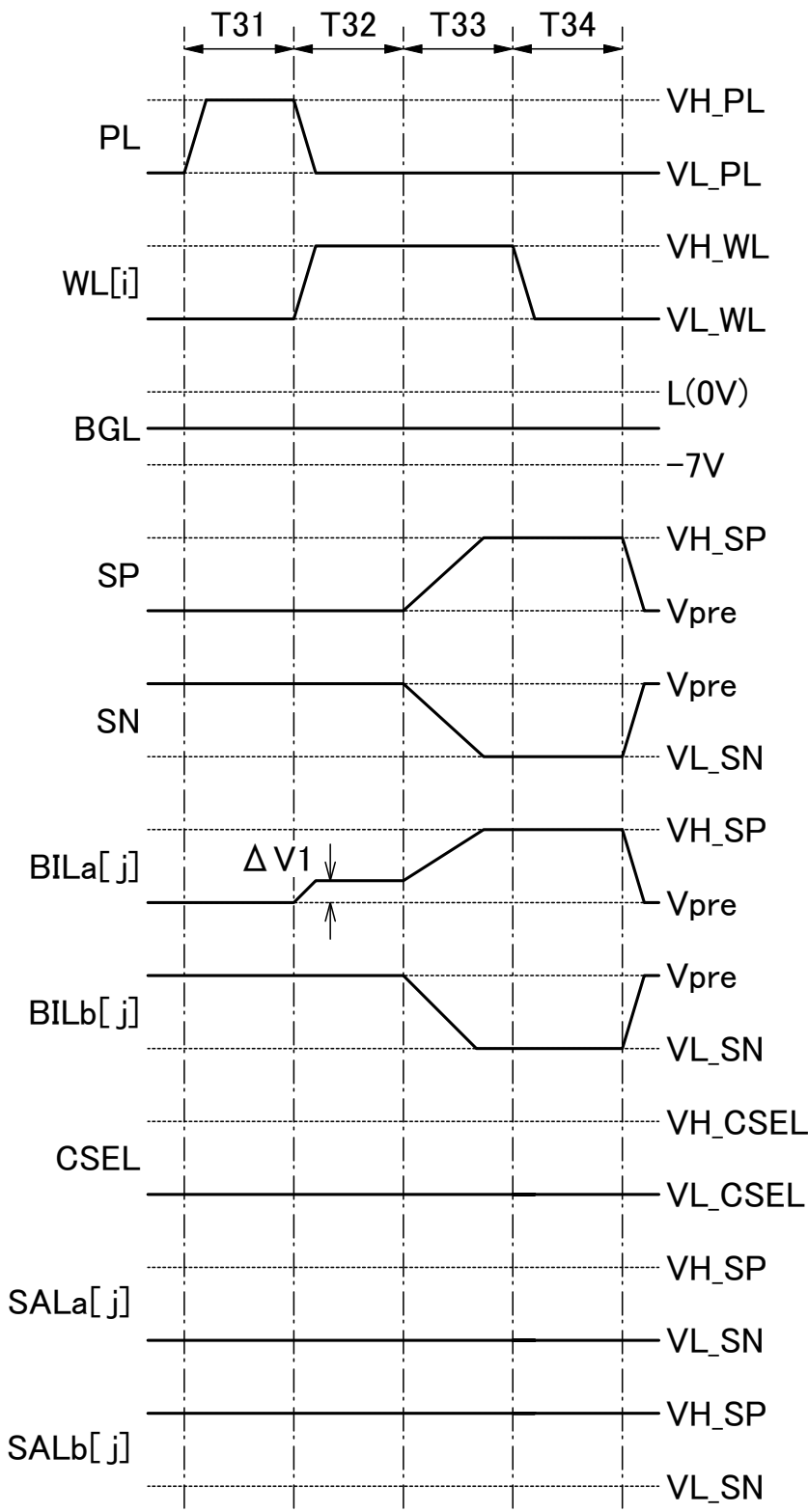


FIG. 16

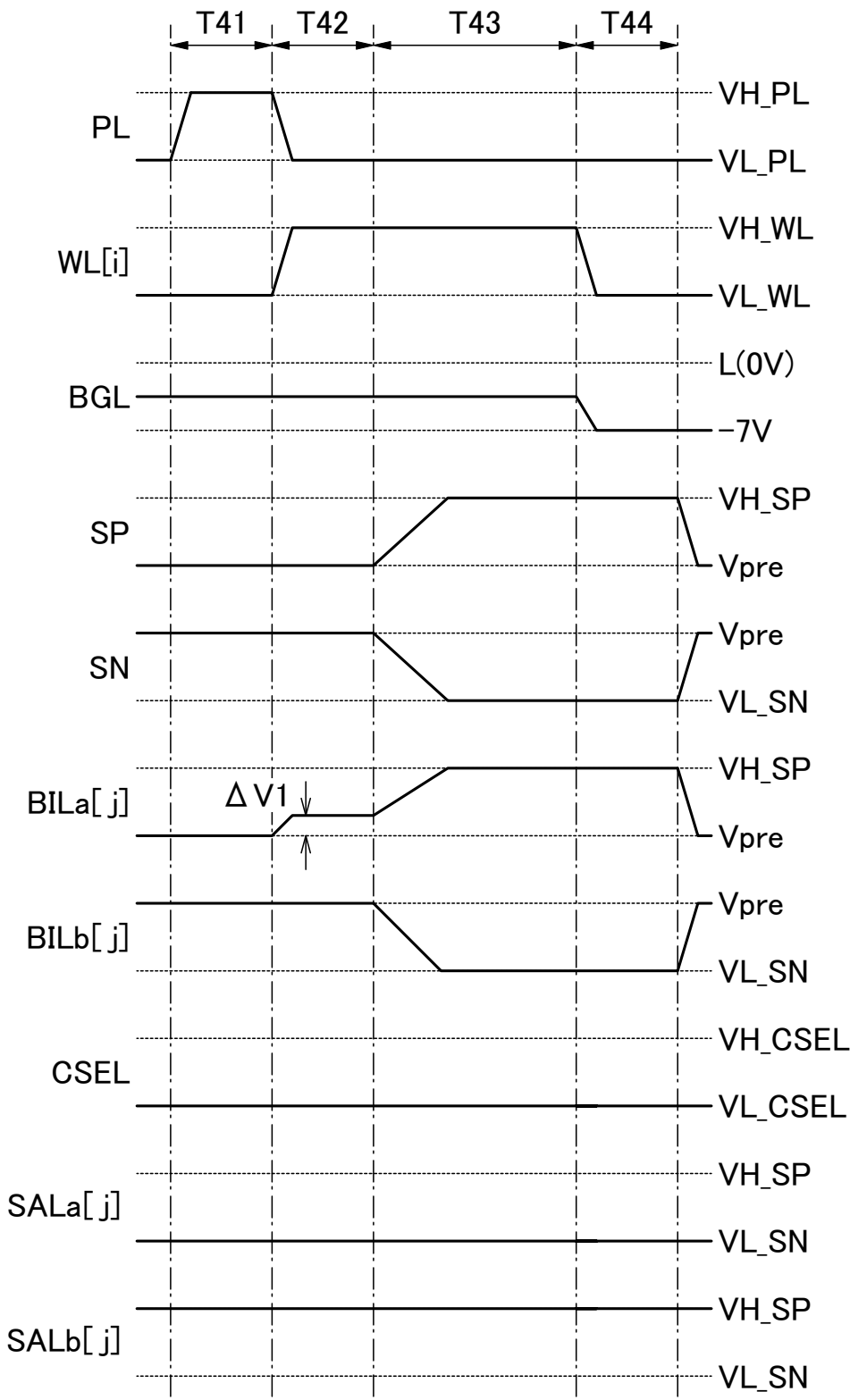
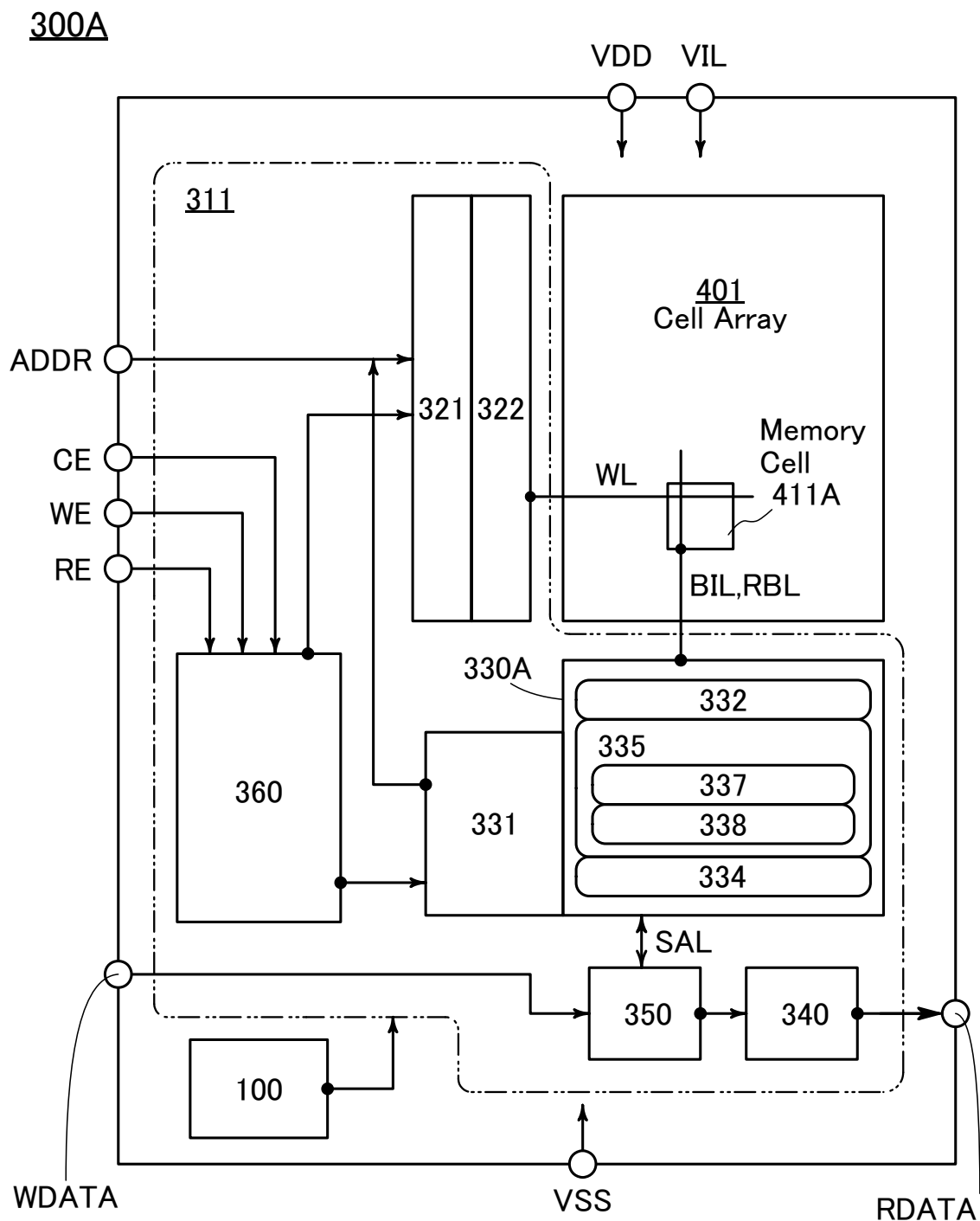


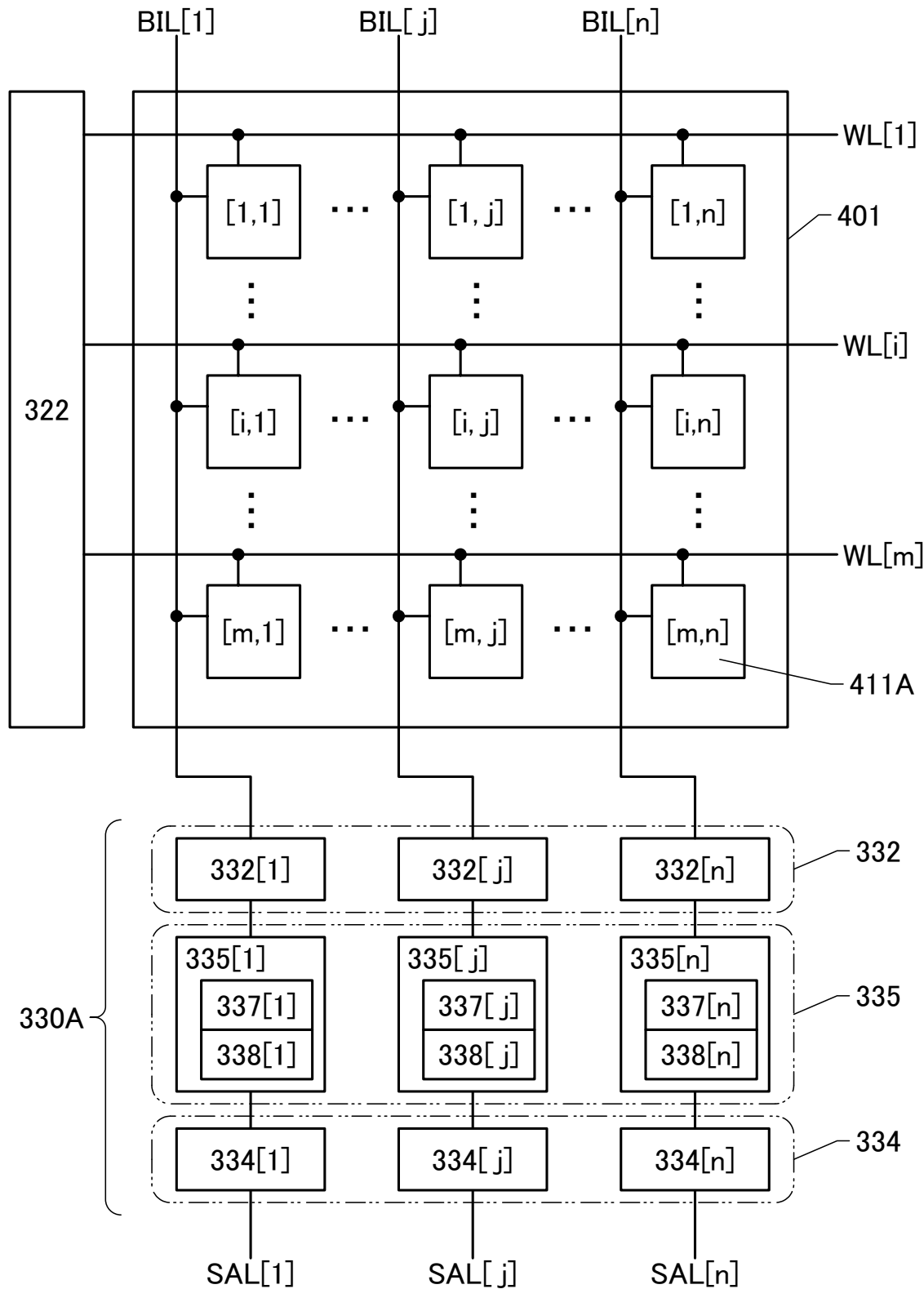
FIG. 17

17/37



330A: Bit line driver circuit
 331: Column decoder
 332: Precharge circuit
 334: Input/output circuit
 337: DAC
 338: ADC
 350: Global logic circuit

FIG. 18



322: Word line driver circuit 338 : ADC
330A: Bit line driver circuit 411A: Memory cell
332: Precharge circuit 401: Cell array
334: Input/output circuit 411A: Memory cell
337: DAC

FIG. 19

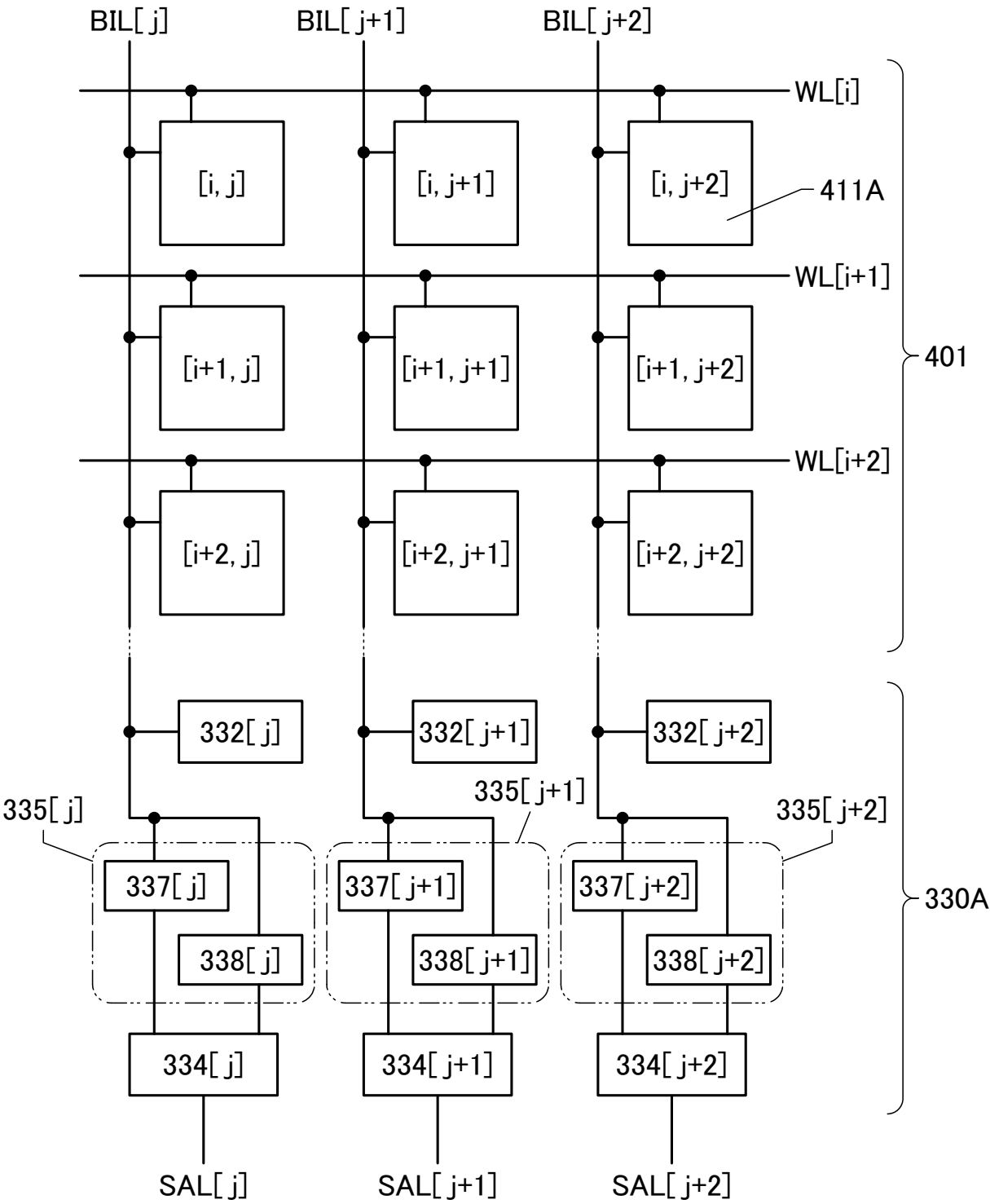


FIG. 20

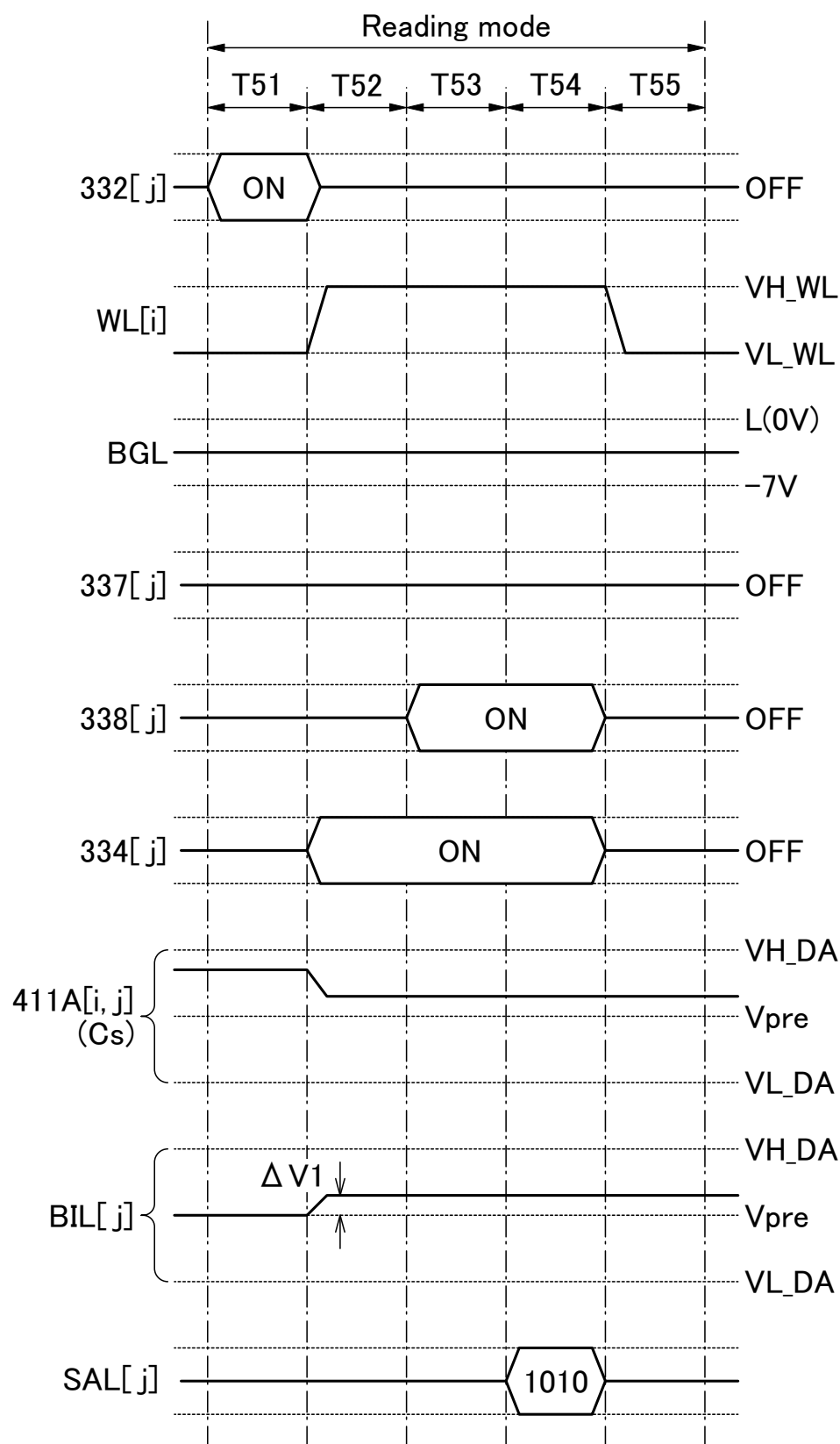


FIG. 21

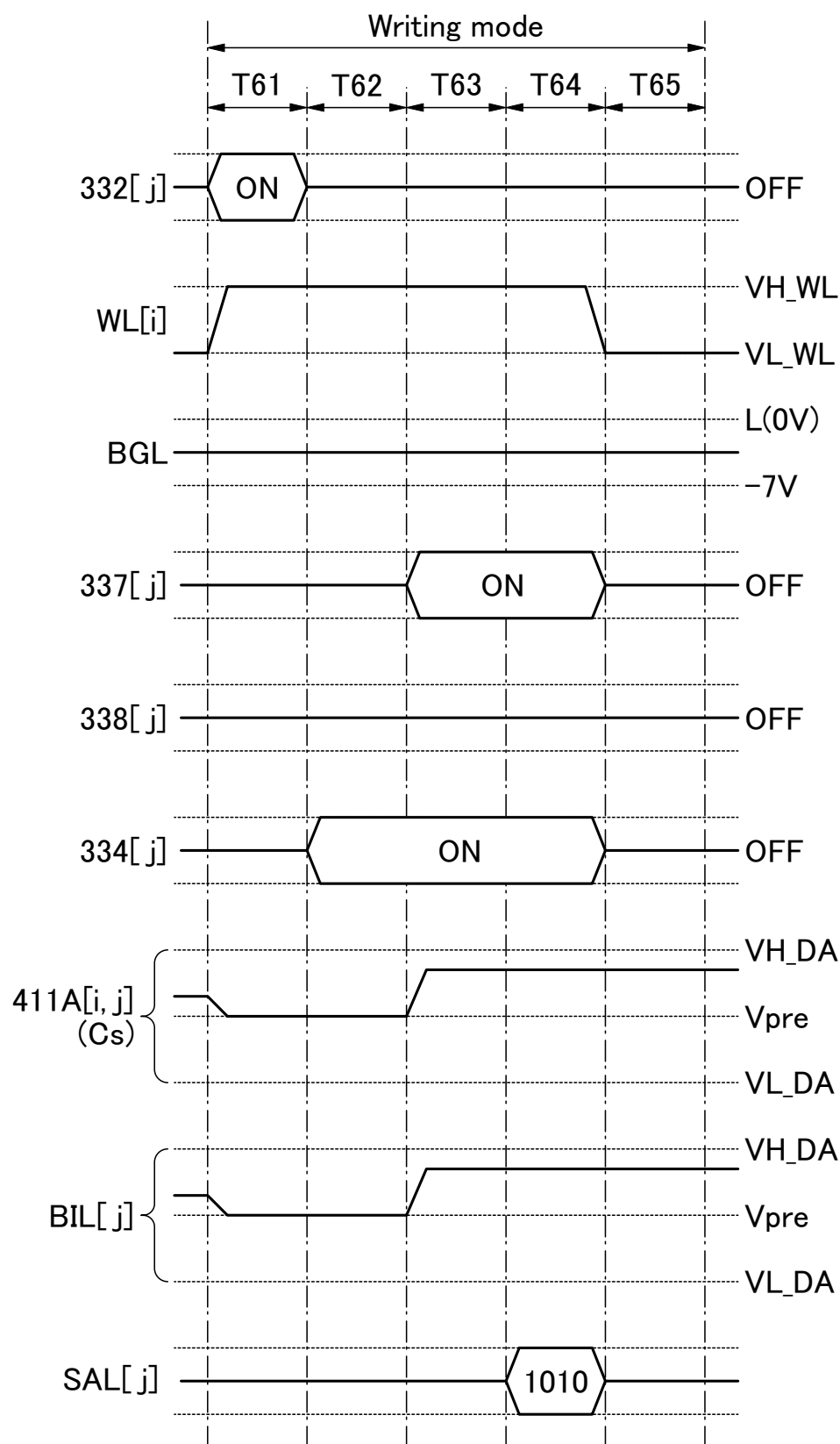


FIG. 22

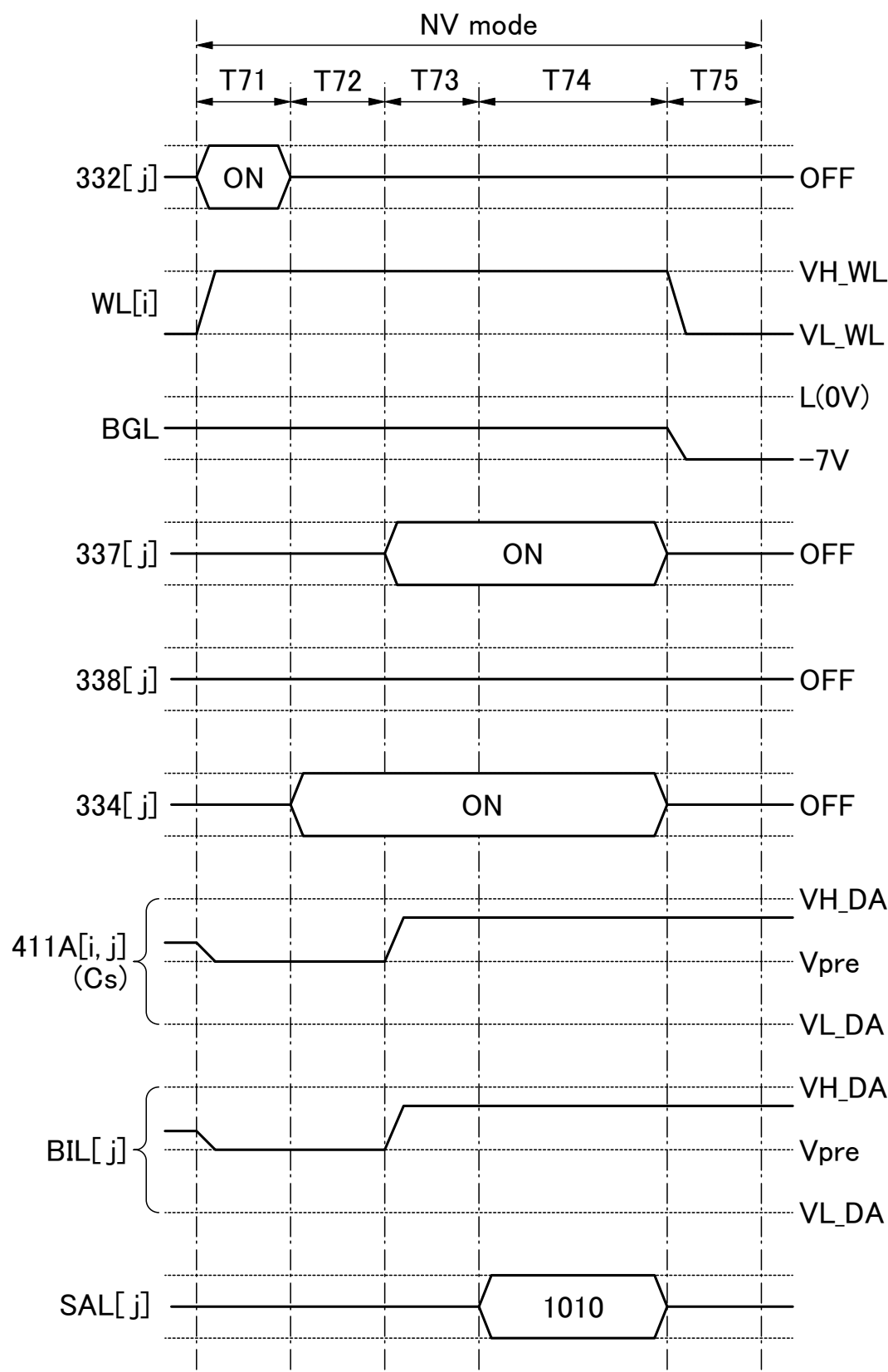
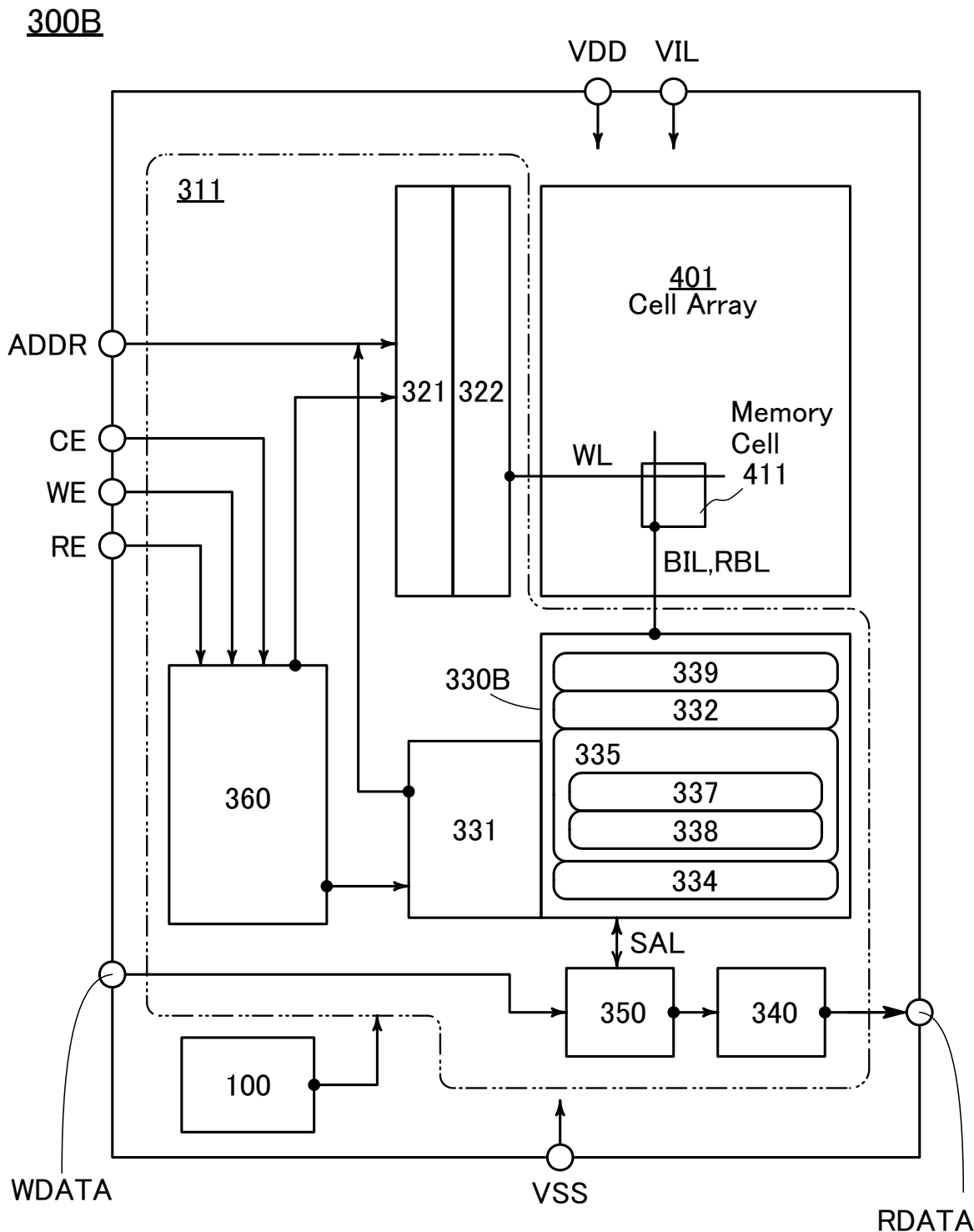


FIG. 23



330B : Bit line driver circuit
331 : Column decoder
332 : Precharge circuit
334 : Input/output circuit
337 : DAC
338 : ADC
350 : Global logic circuit

FIG. 24

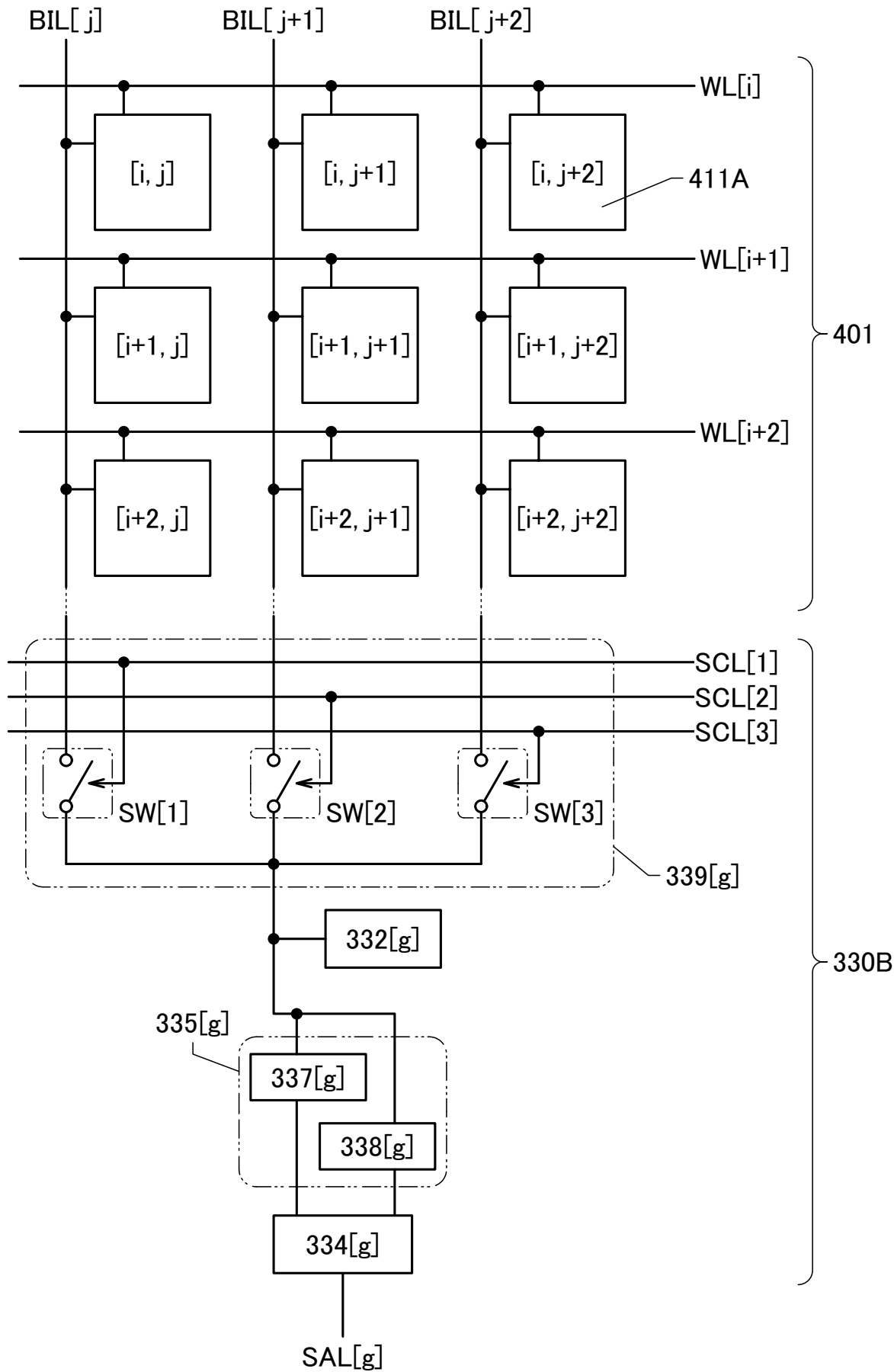


FIG. 25

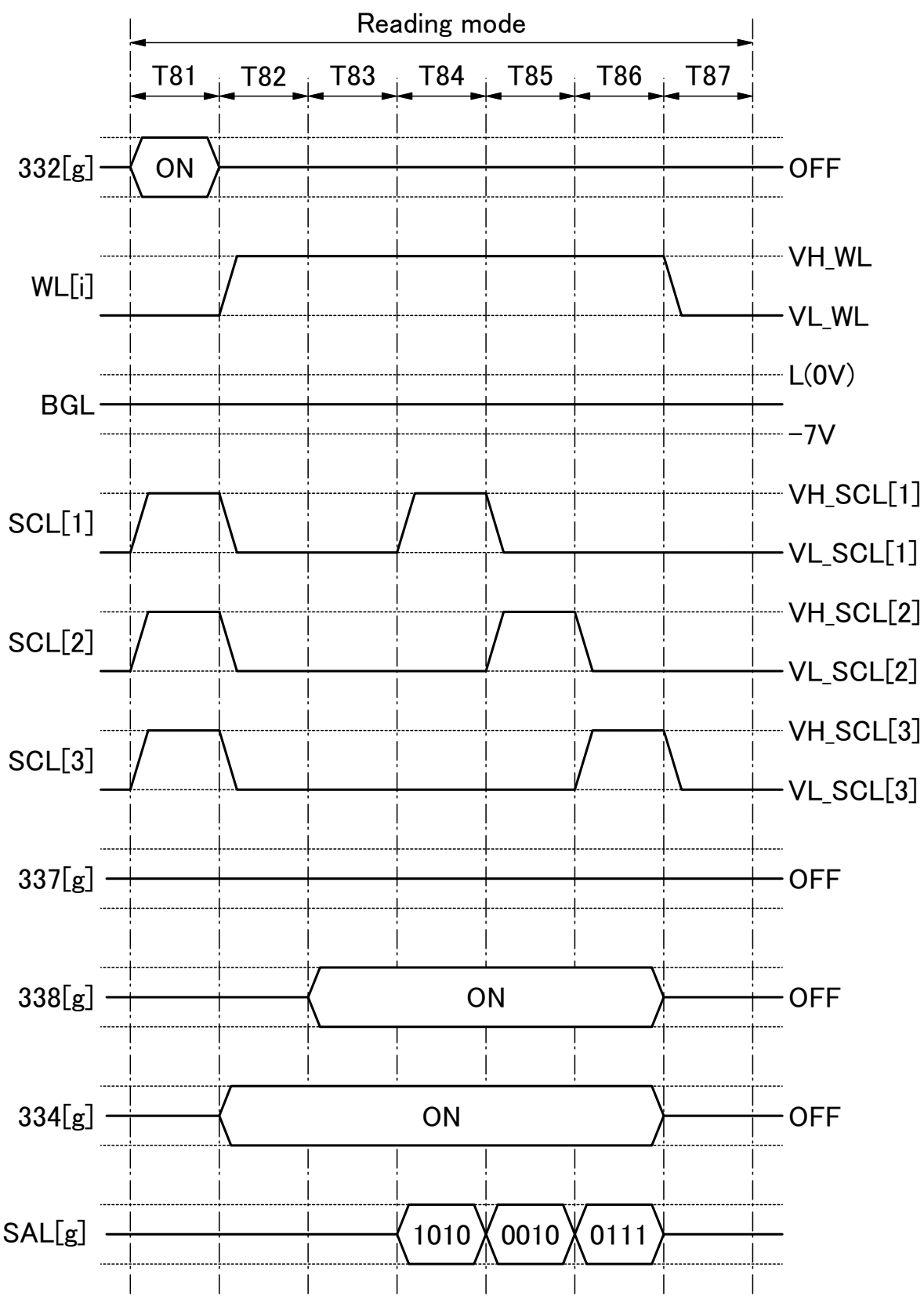


FIG. 26

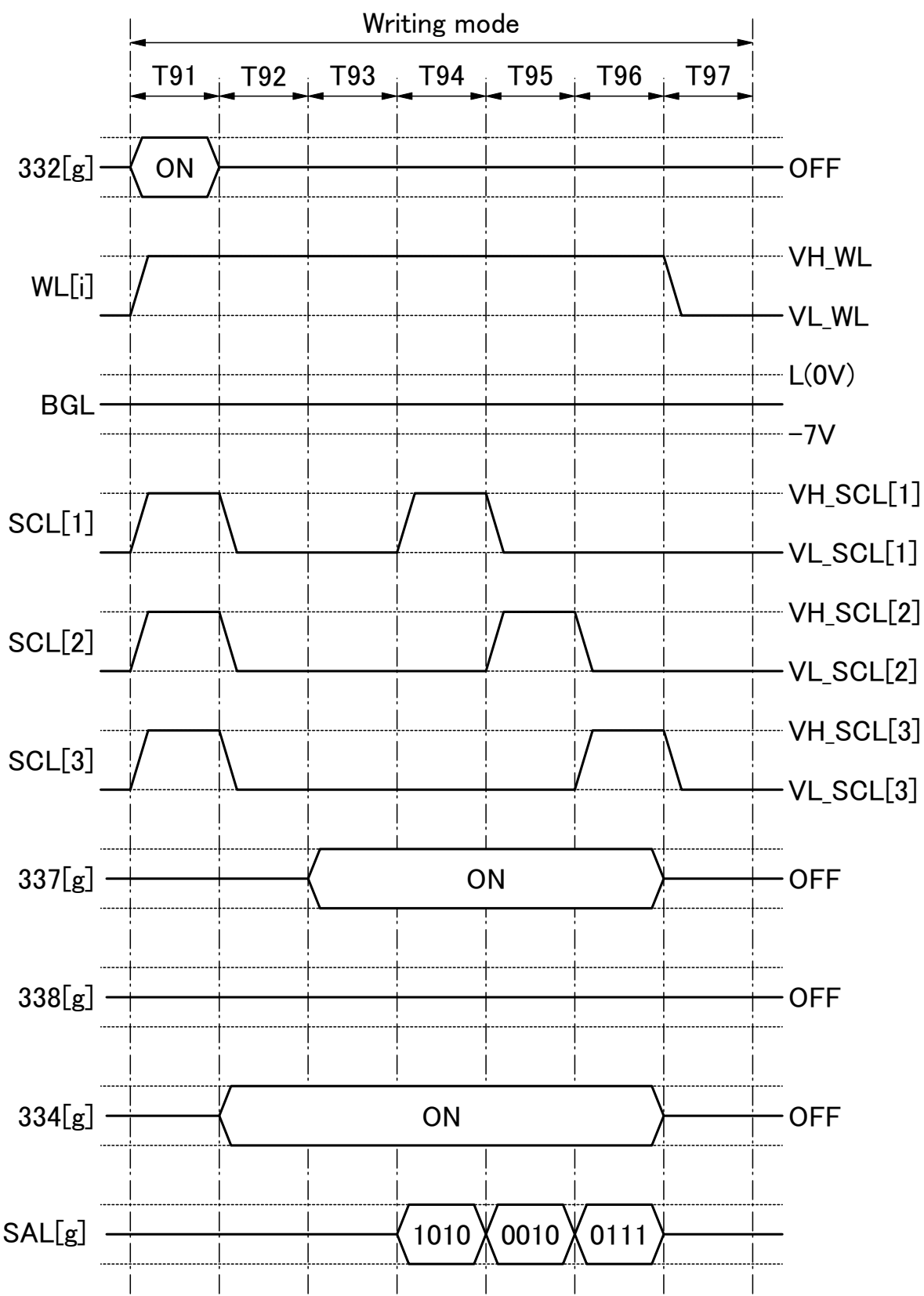


FIG. 27

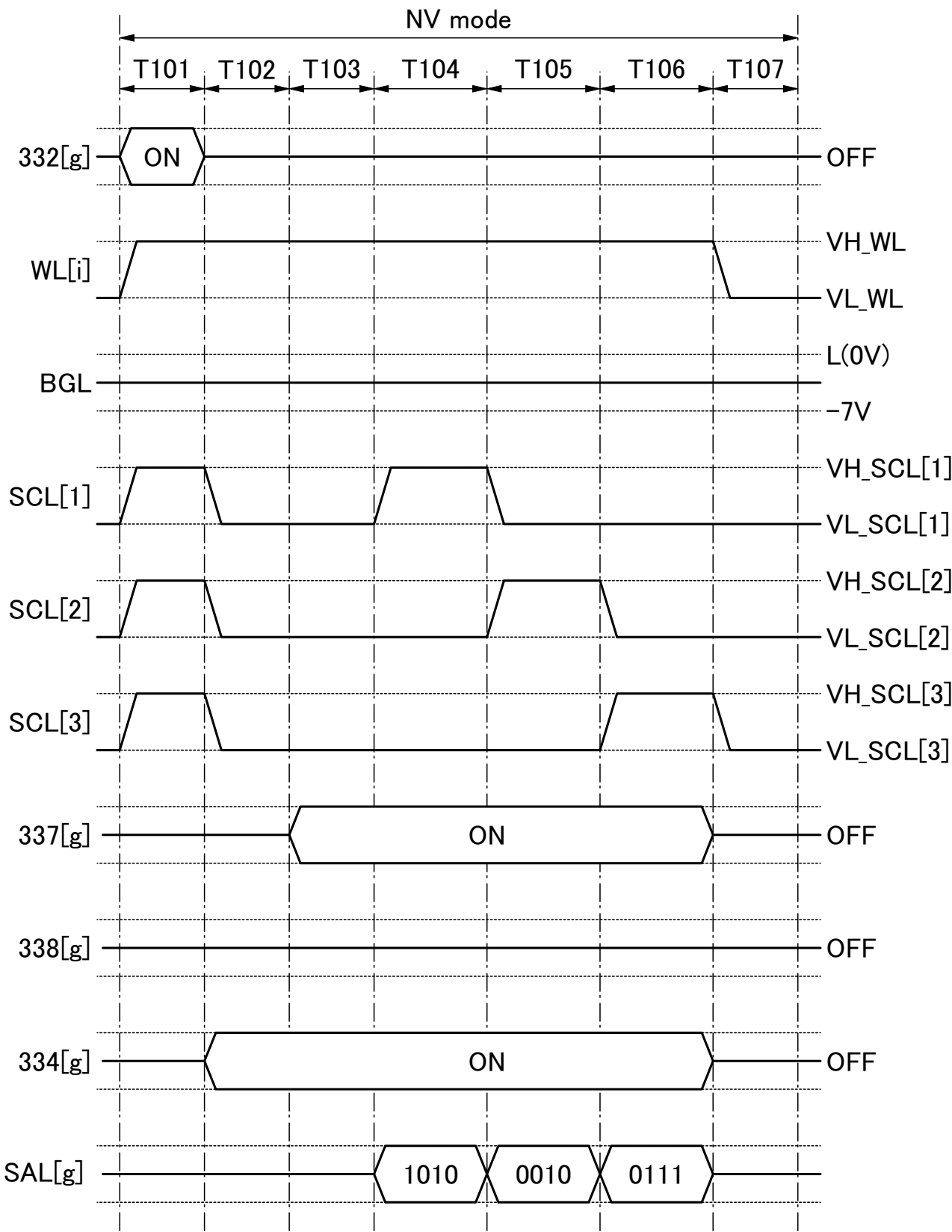


FIG. 28

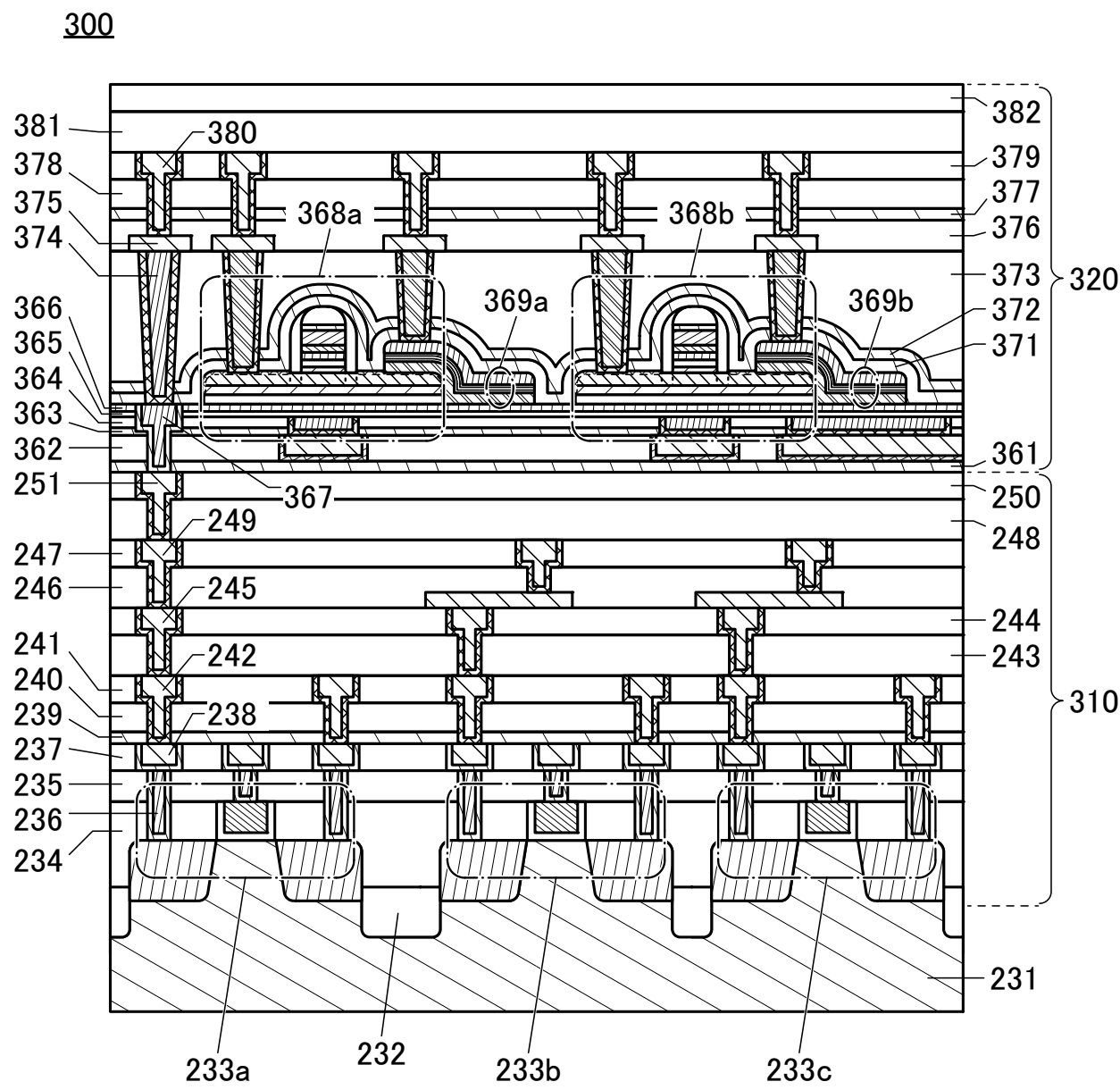


FIG. 29

300A

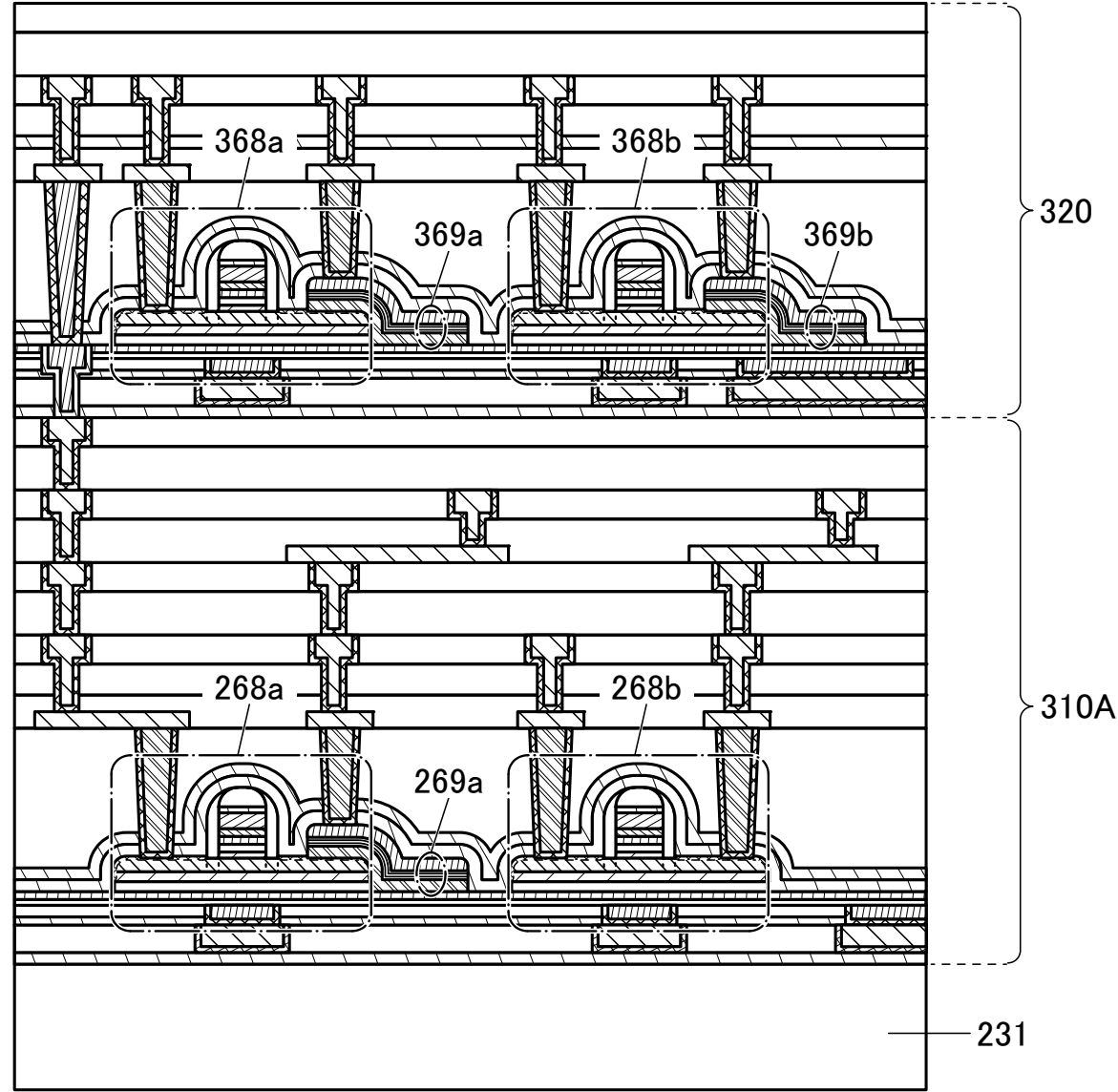


FIG. 30A

510A

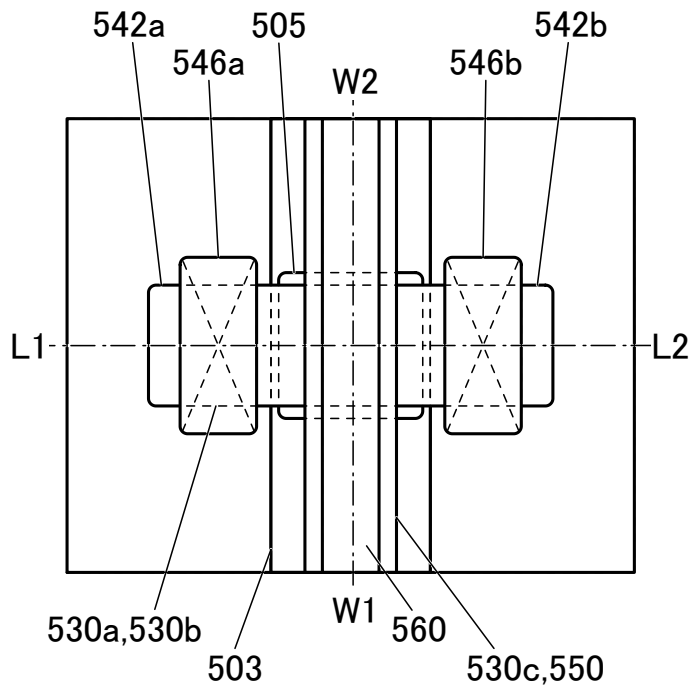


FIG. 30C

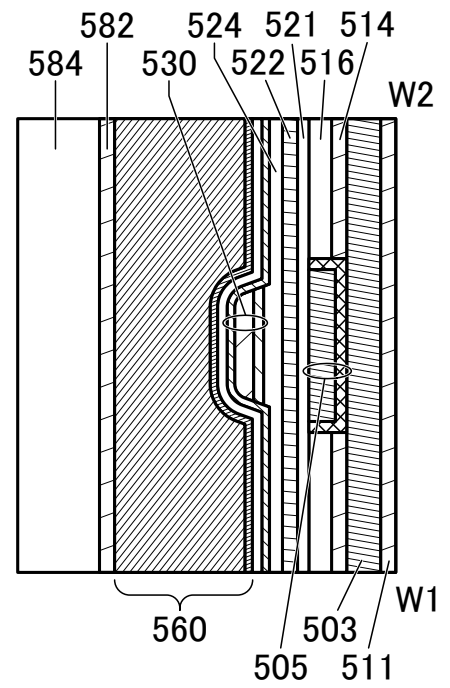


FIG. 30B

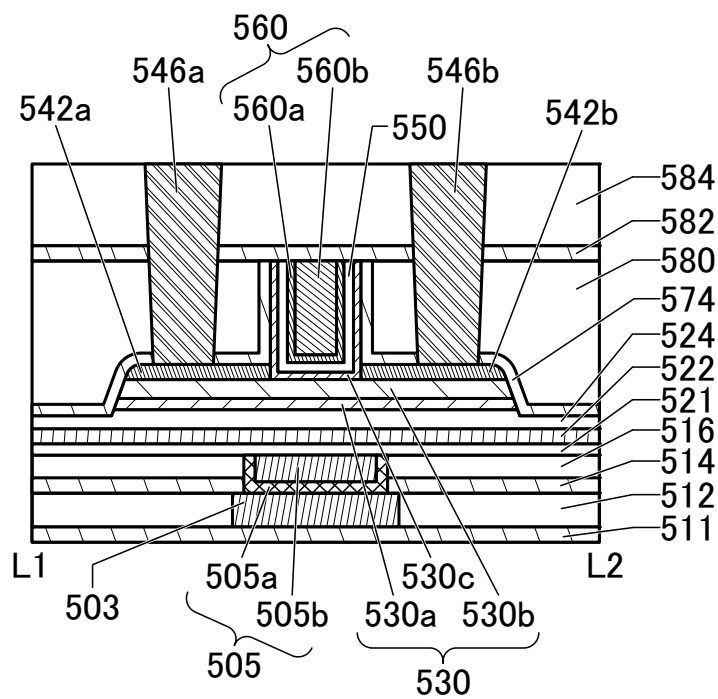


FIG. 31A

510B

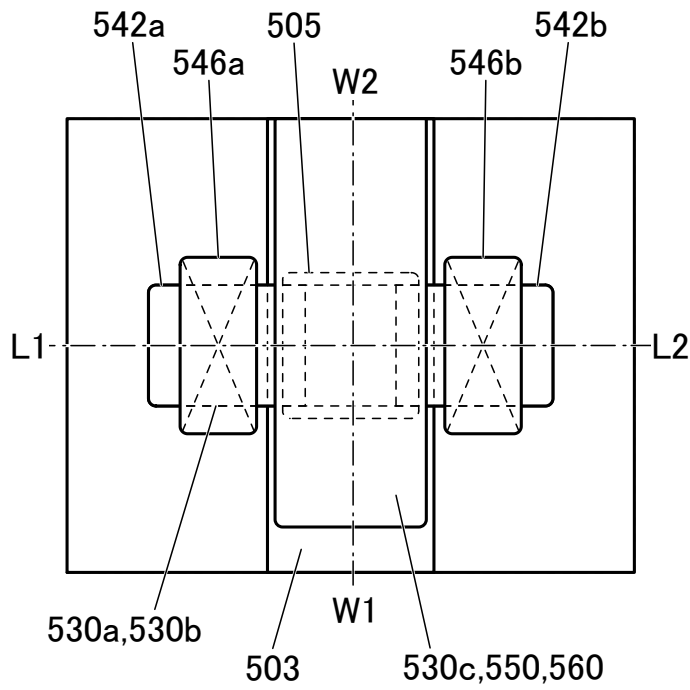


FIG. 31C

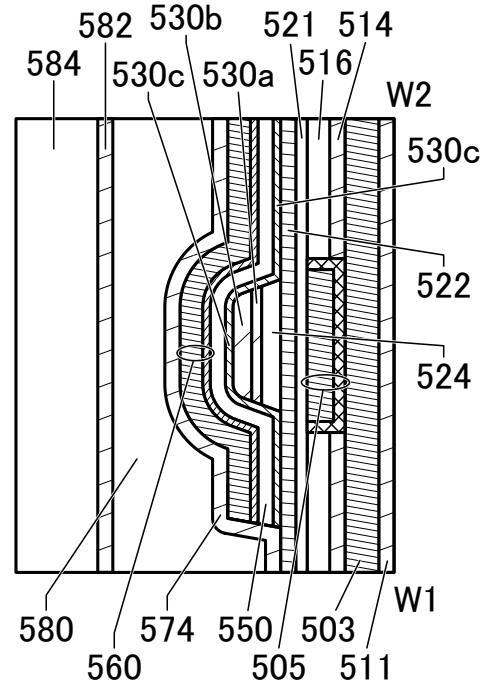


FIG. 31B

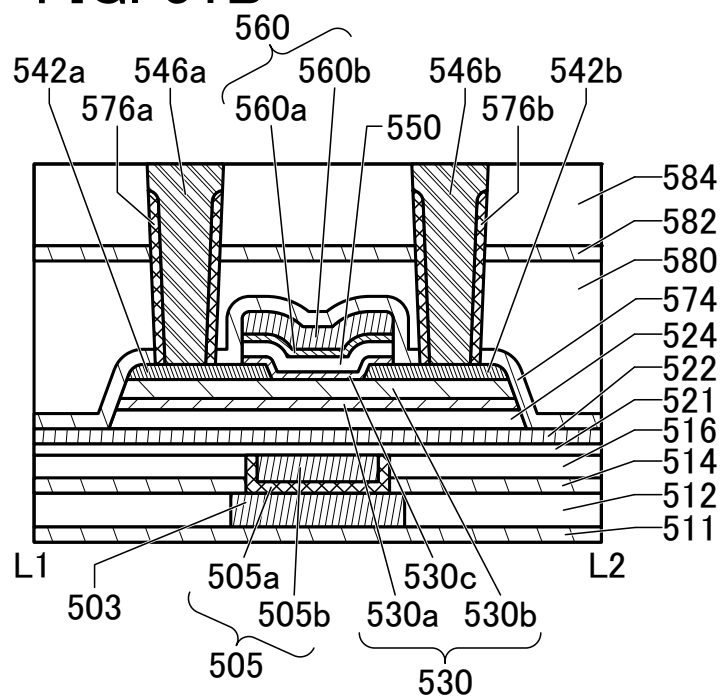


FIG. 32A

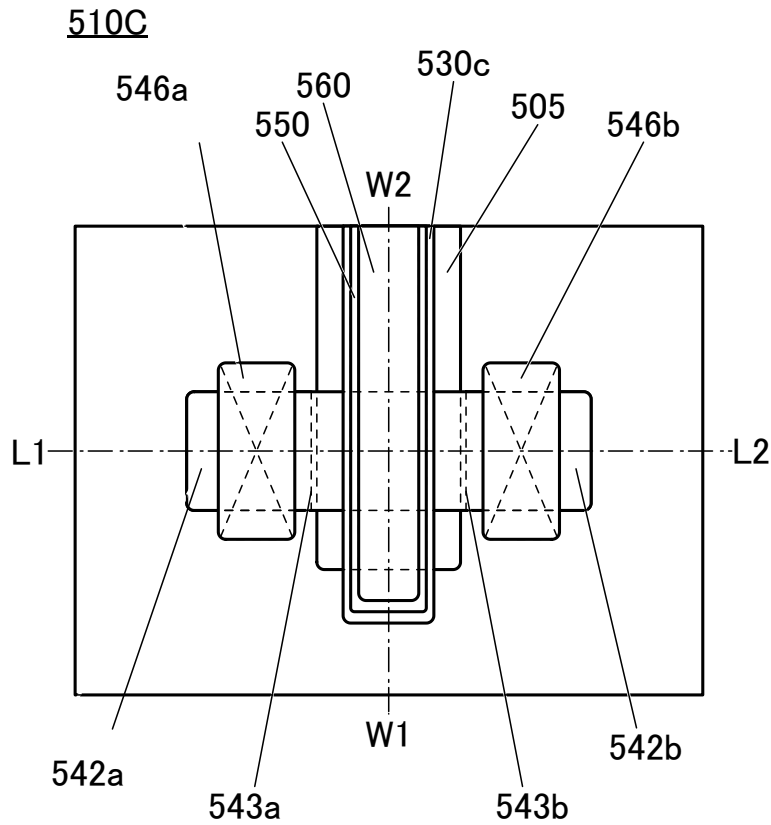


FIG. 32C

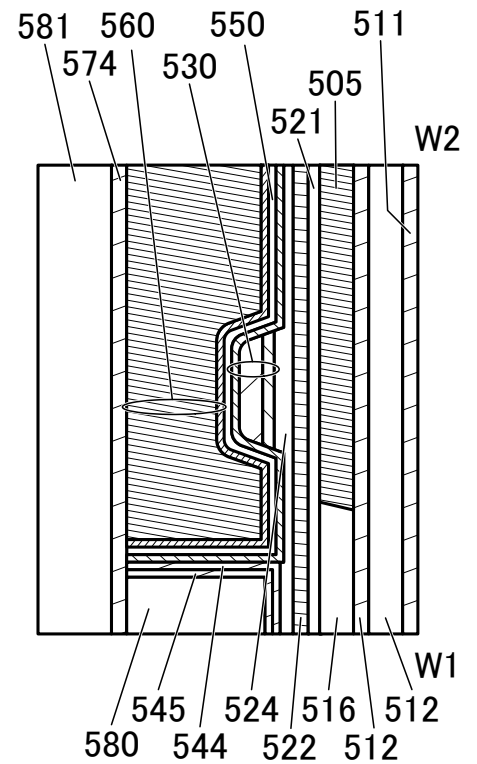


FIG. 32B

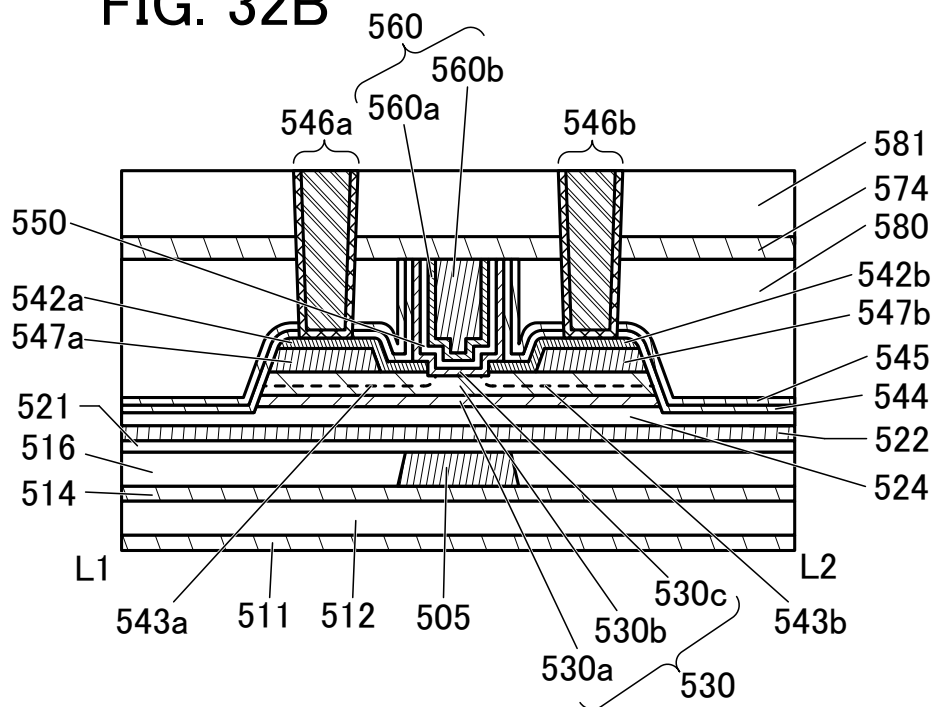


FIG. 33A

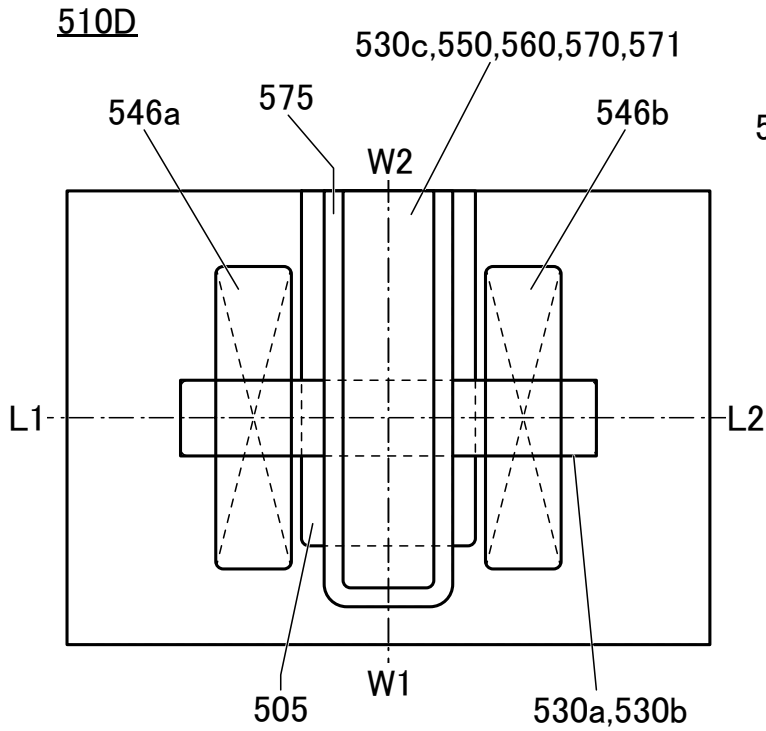


FIG. 33C

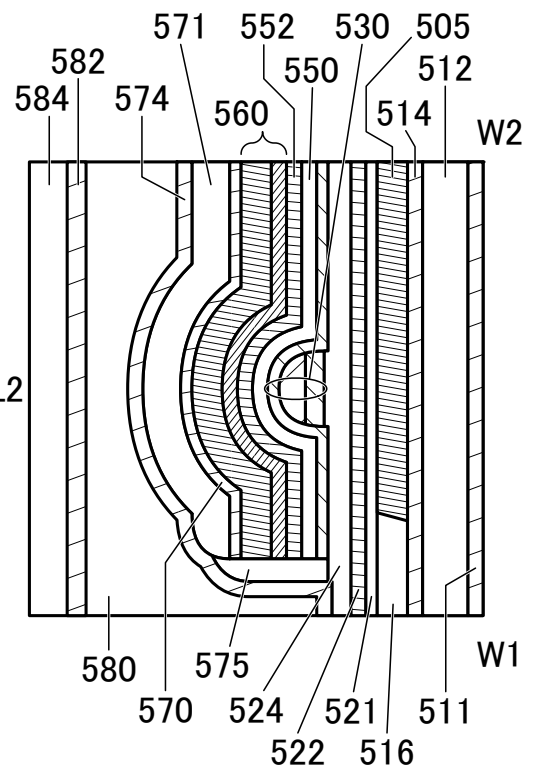


FIG. 33B

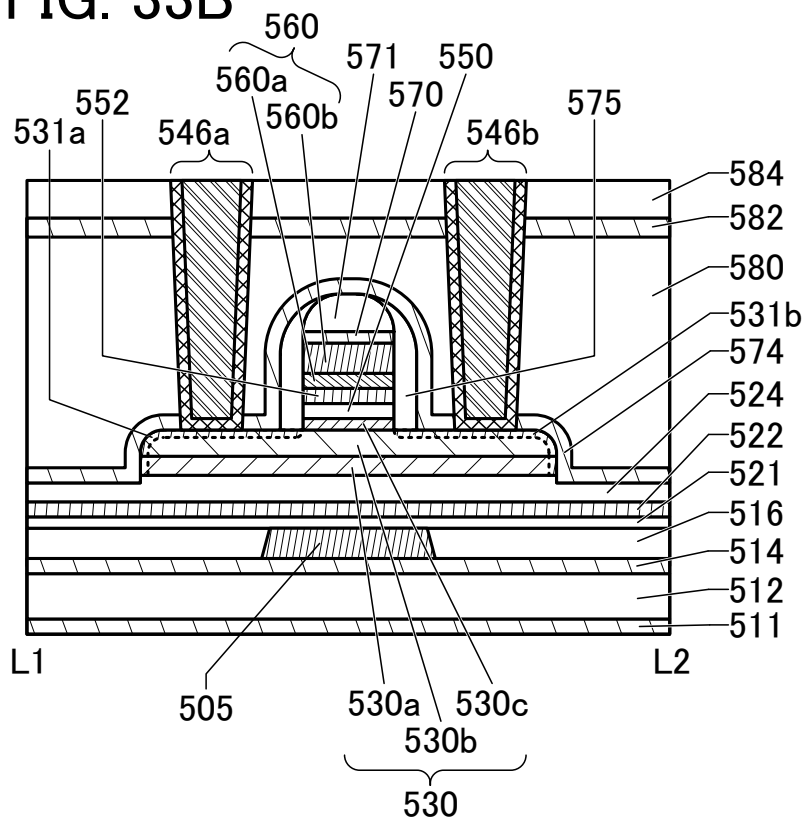


FIG. 34A

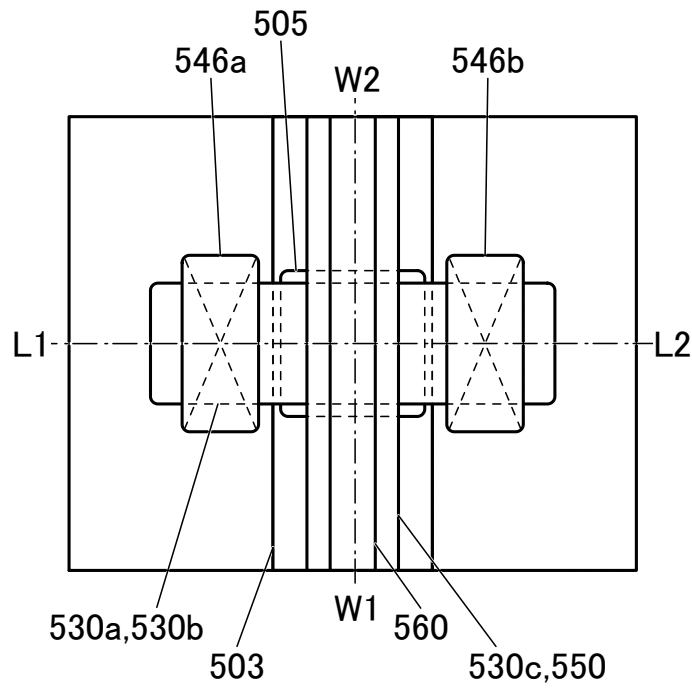
510E

FIG. 34C

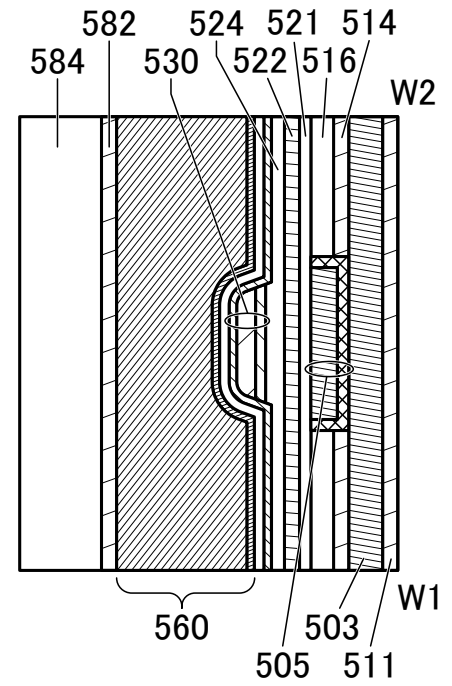


FIG. 34B

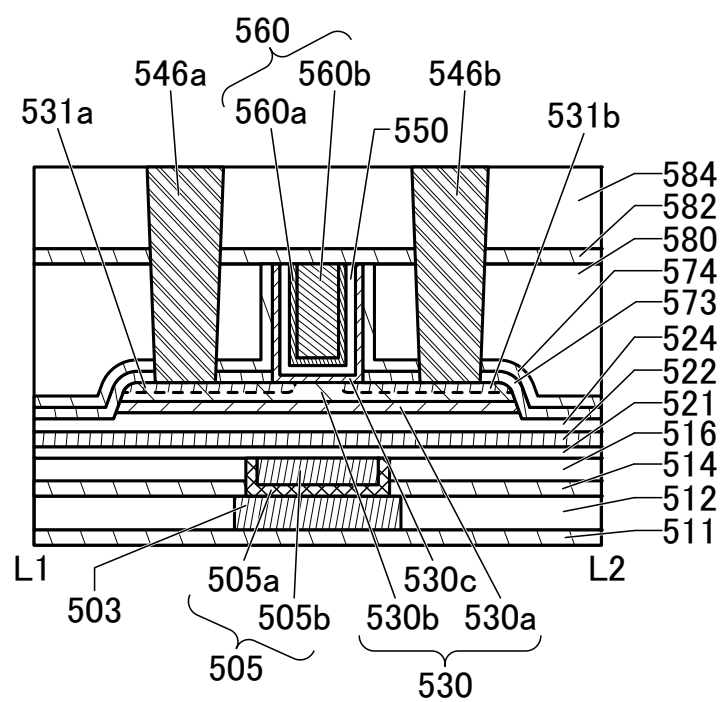


FIG. 35A

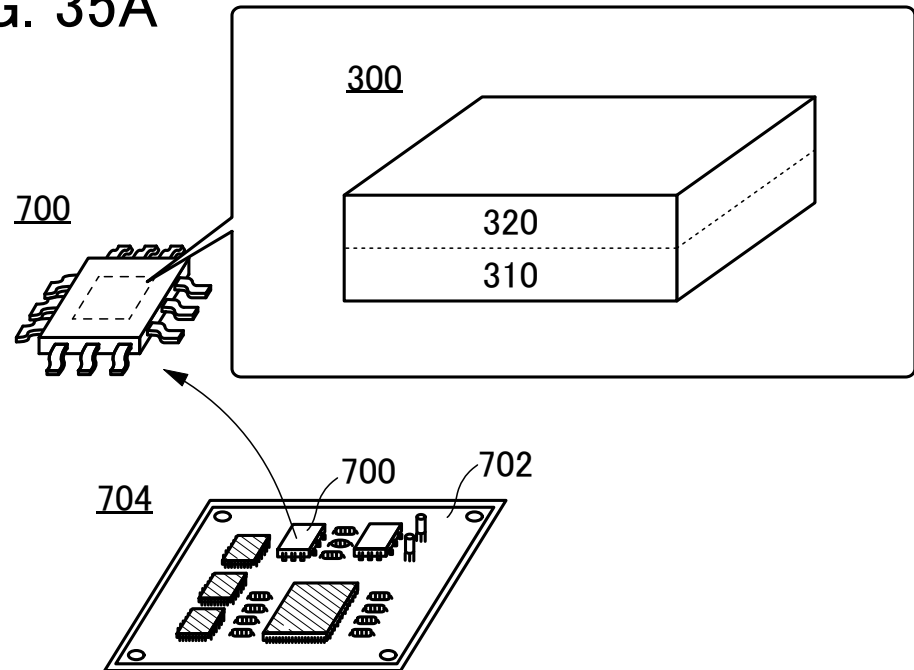


FIG. 35B

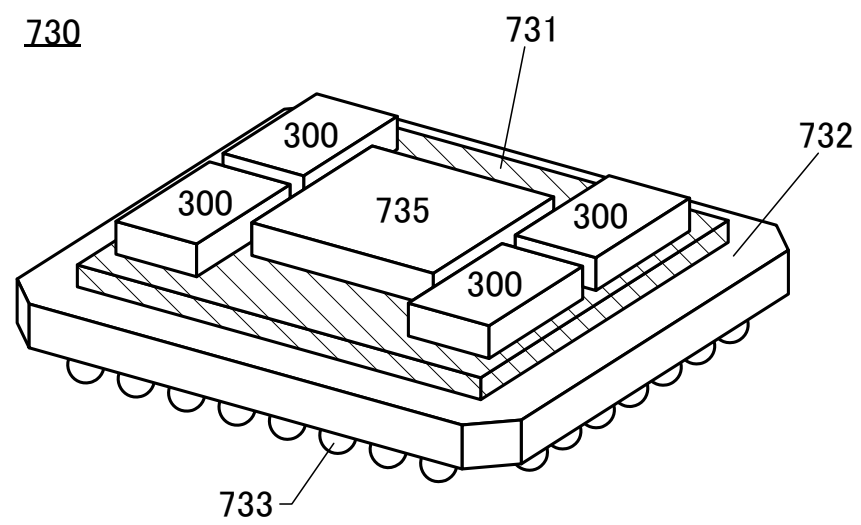


FIG. 36

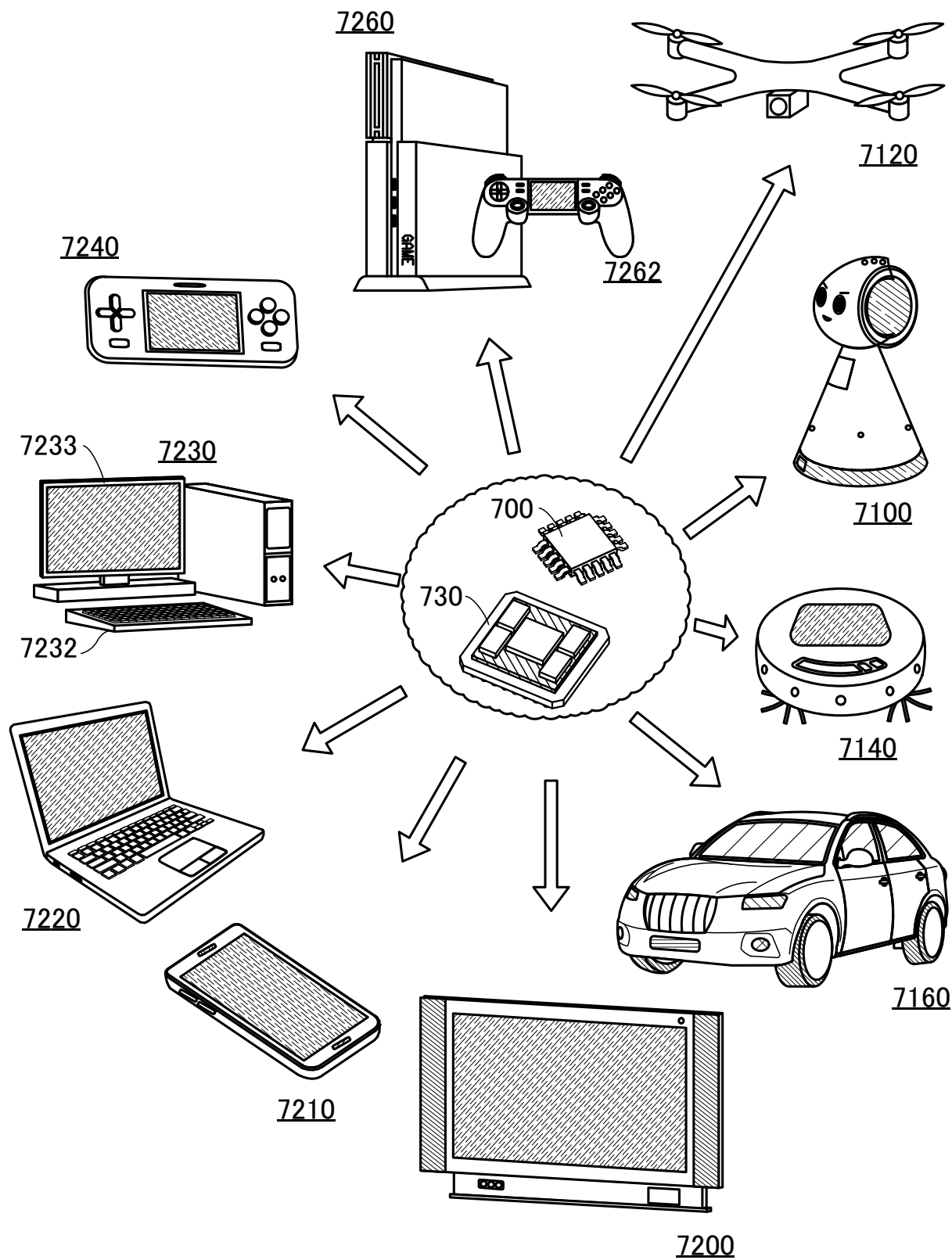


FIG. 37A

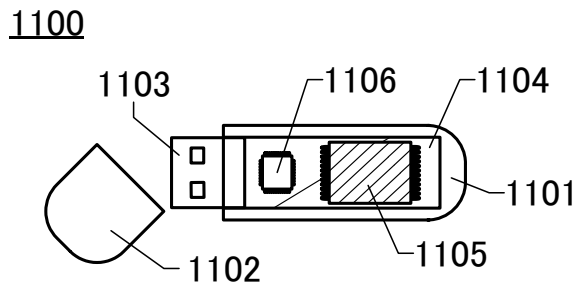


FIG. 37B

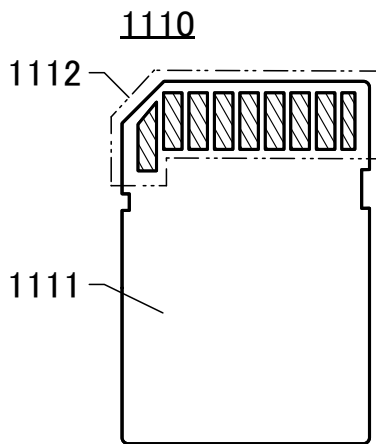


FIG. 37C

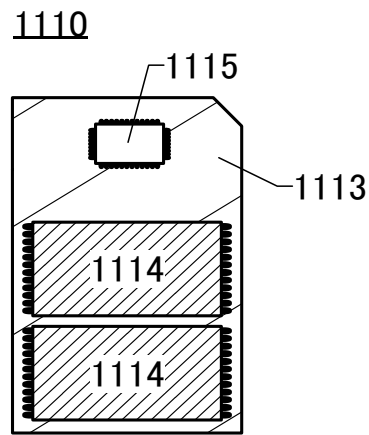


FIG. 37D

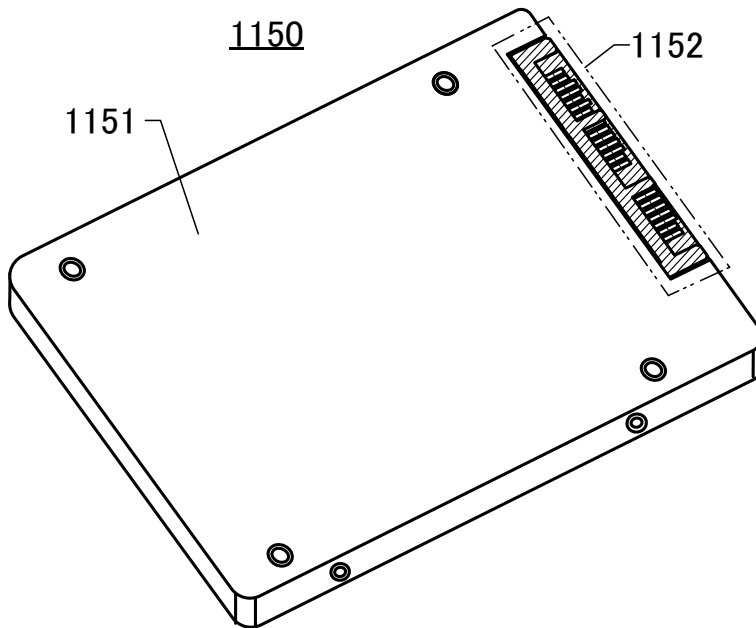


FIG. 37E

