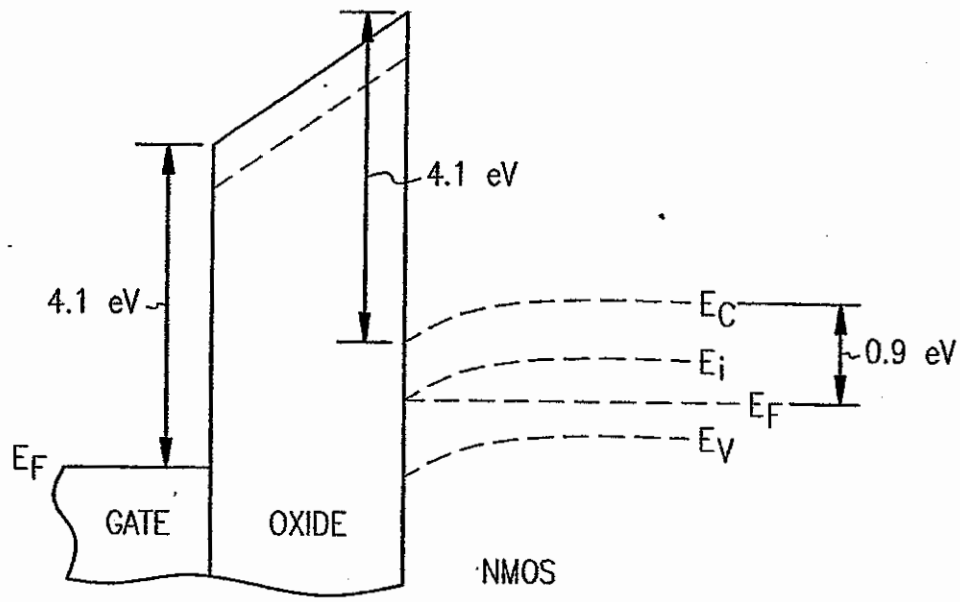

4.1 eV
4.1 eV
E_C
E_i
E_F
E_V
0.9 eV
E_F
GATE
OXIDE
NMOS

FIG. 1A

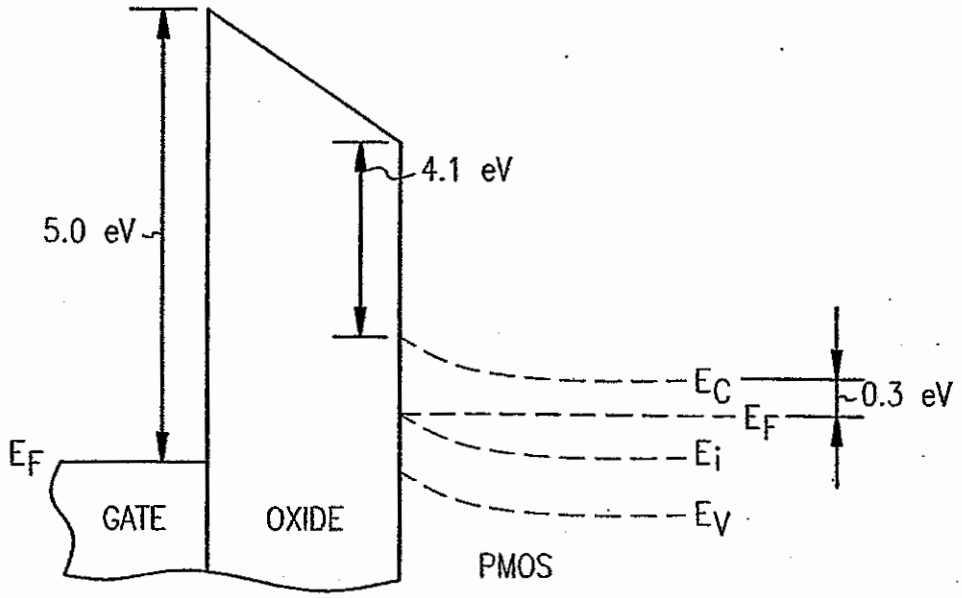

4.1 eV
5.0 eV
E_C
E_F
E_i
E_V
0.3 eV
E_F
GATE
OXIDE
PMOS

FIG. 1B

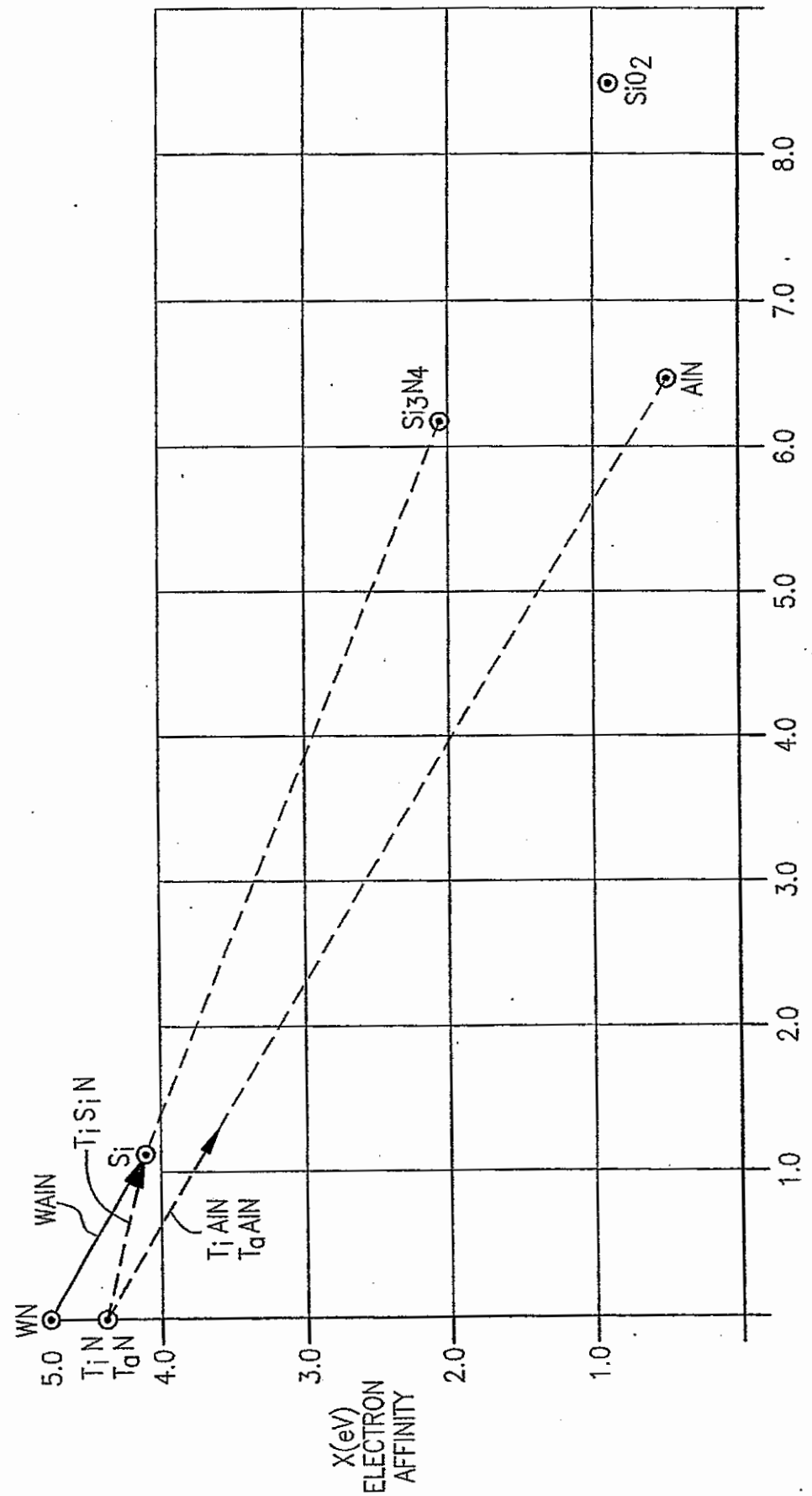

SiO2
Si3N4
AlN
WN
TiN
TaN
WAlN
TiSiN
Si
TiAlN
TaAlN
5.0
4.0
3.0
2.0
1.0
X(eV) ELECTRON AFFINITY
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
BANDGAP (eV)

FIG. 2

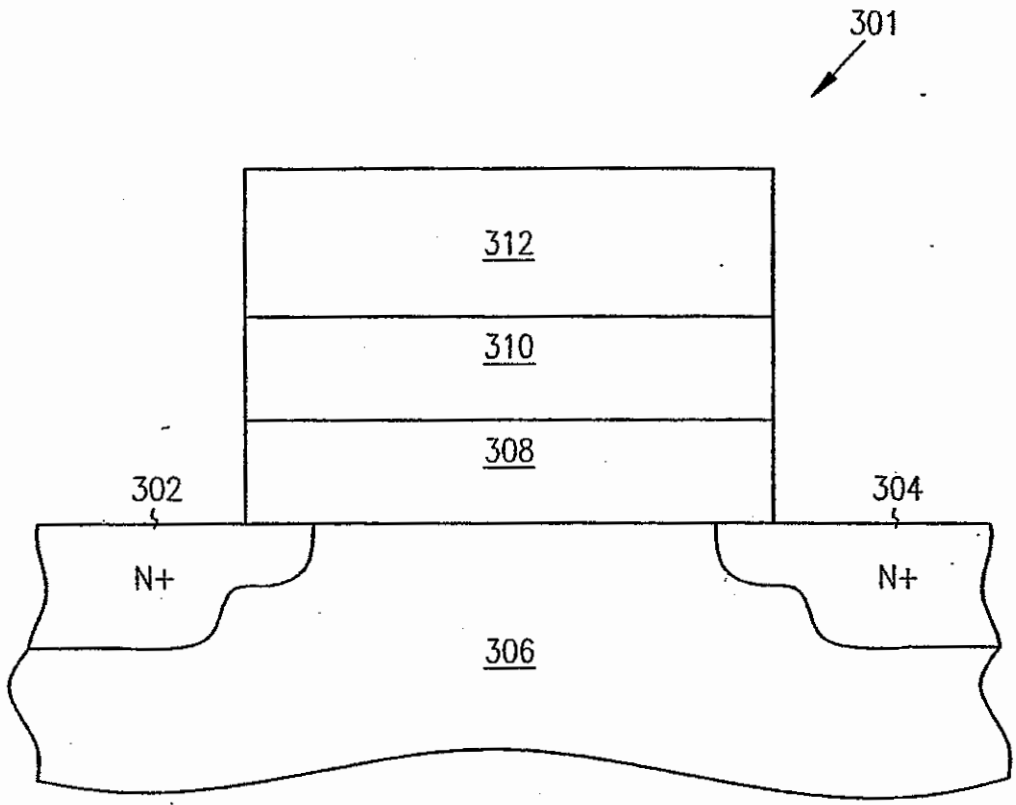


FIG. 3

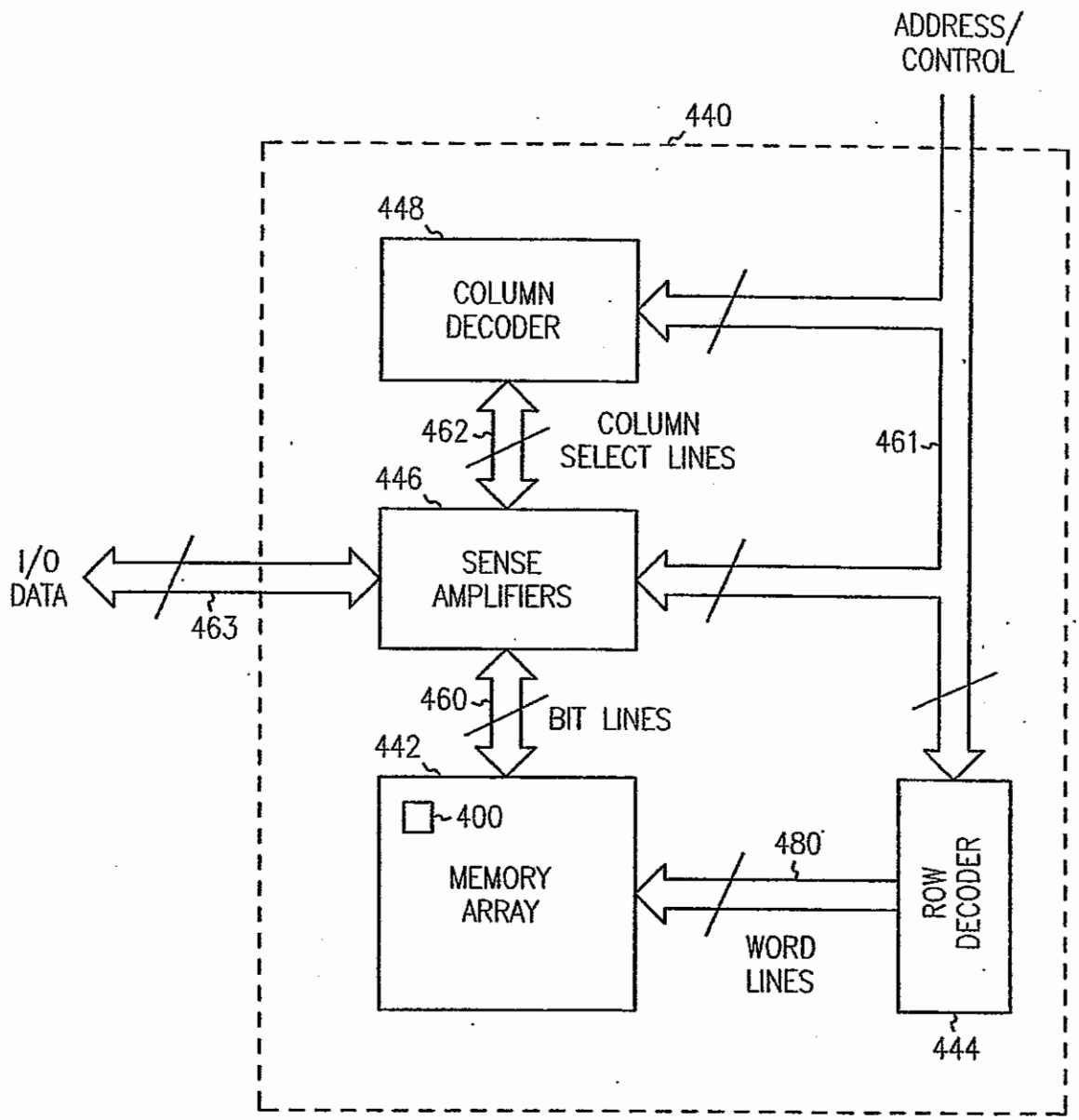

ADDRESS/
CONTROL
440
448
COLUMN
DECODER
462
COLUMN
SELECT LINES
461
446
I/O
DATA
SENSE
AMPLIFIERS
463
460
BIT LINES
442
400
MEMORY
ARRAY
480
WORD
LINES
ROW
DECODER
444

FIG. 4

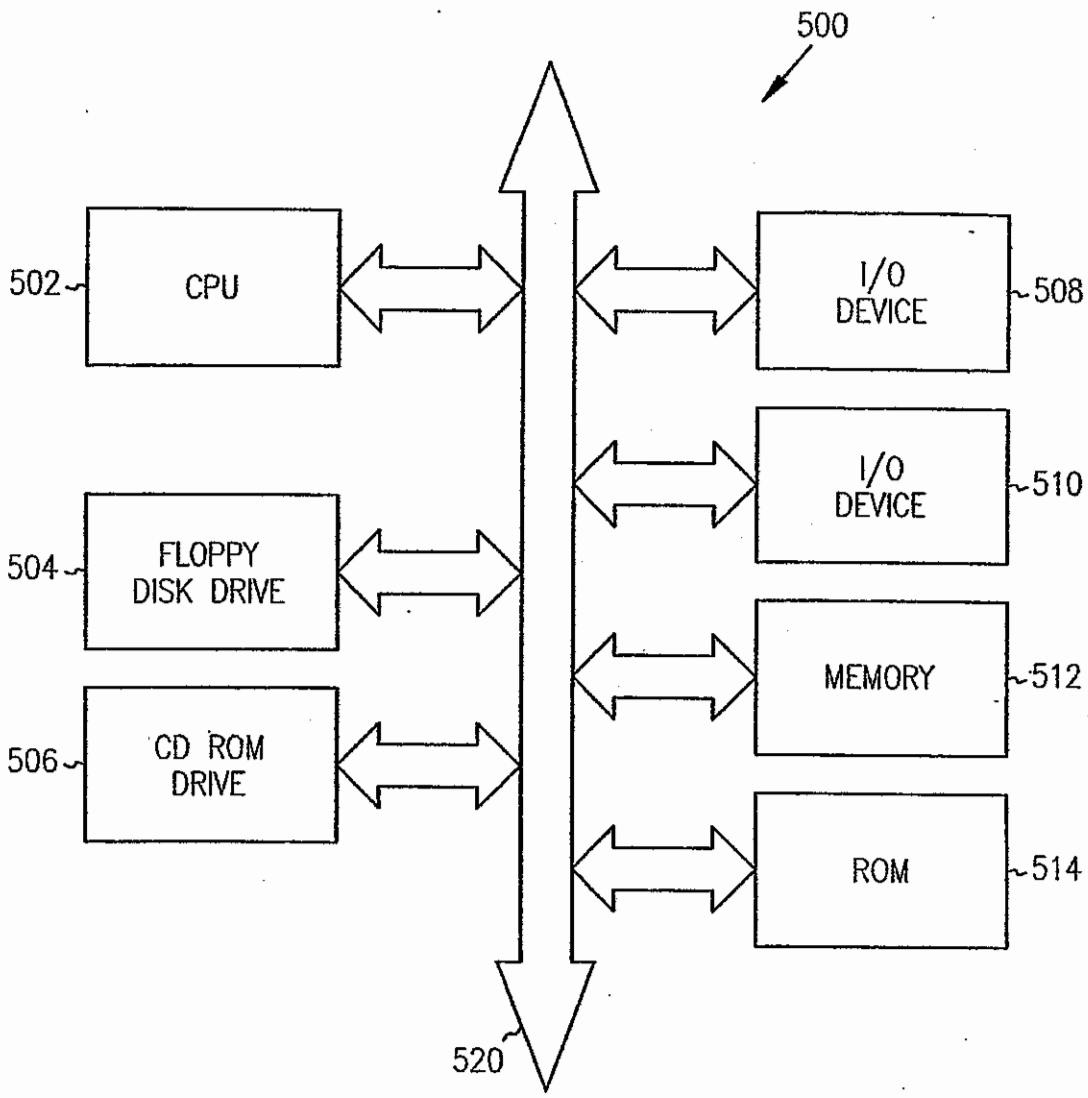

500
502
CPU
504
FLOPPY DISK DRIVE
506
CD ROM DRIVE
I/O DEVICE
508
I/O DEVICE
510
MEMORY
512
ROM
514
520

FIG. 5