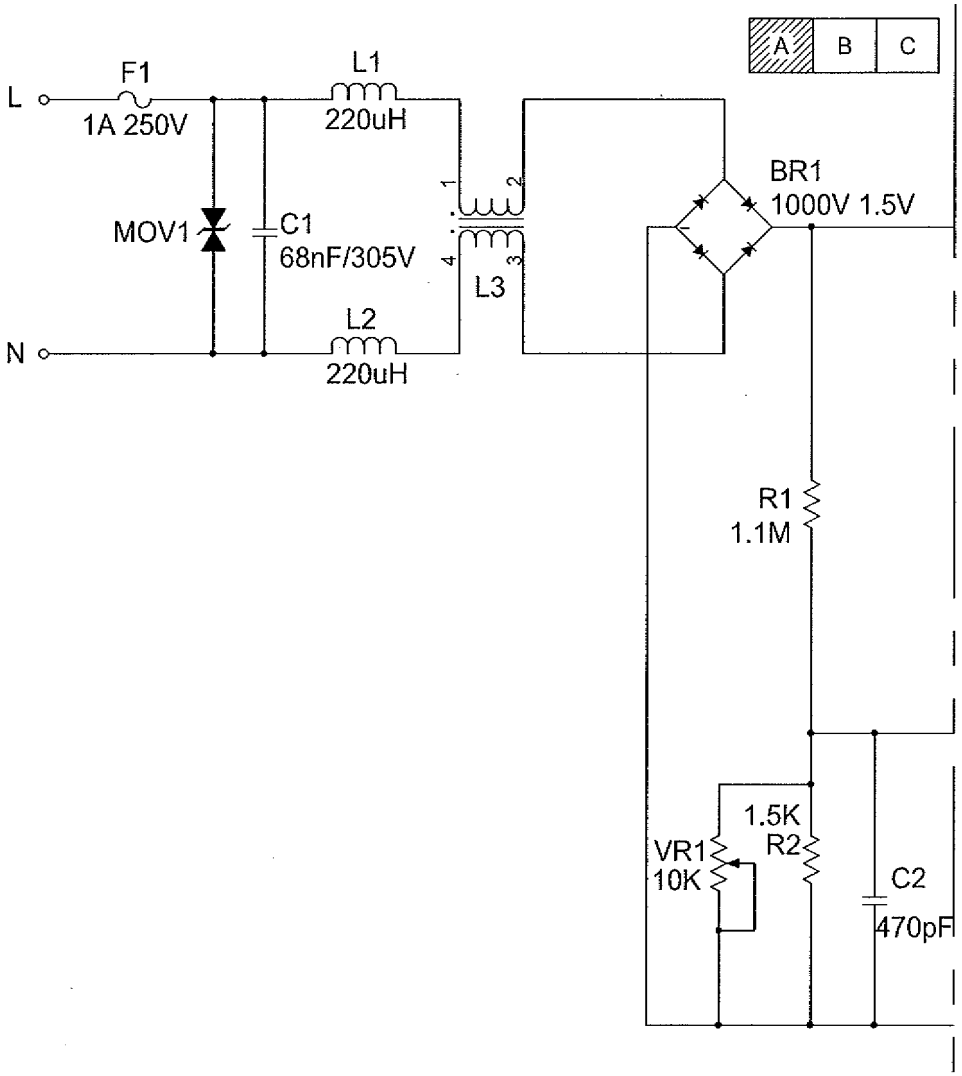

A
B
C
L
F1
1A 250V
L1
220uH
MOV1
C1
68nF/305V
N
L2
220uH
1
2
3
4
L3
BR1
1000V 1.5V
R1
1.1M
1.5K
R2
VR1
10K
C2
470pF

FIG. 1-A

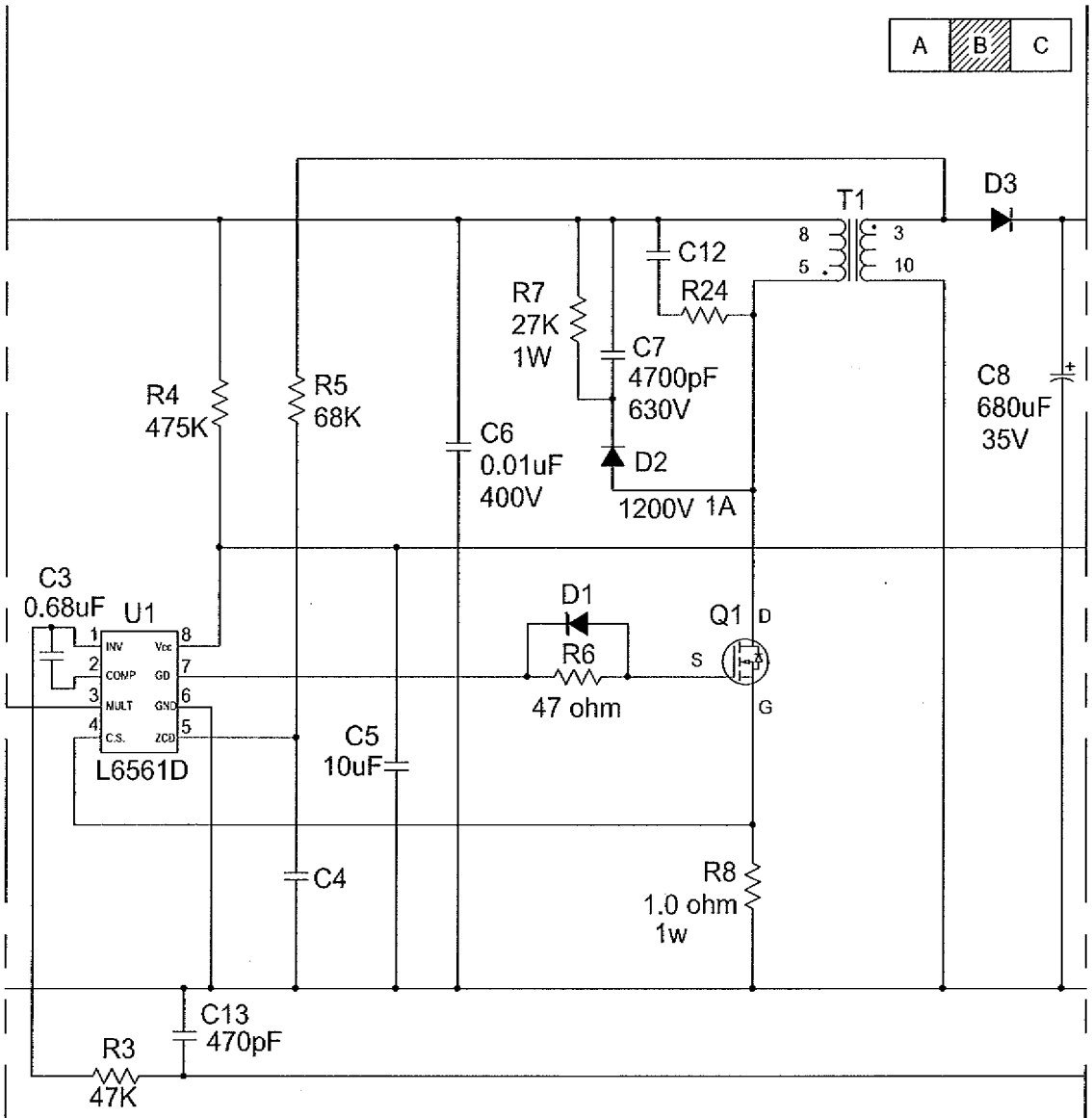

A
B
C
T1
D3
C12
R24
R7
27K
1W
C7
4700pF
630V
C8
680uF
35V
R4
475K
R5
68K
C6
0.01uF
400V
D2
1200V 1A
C3
0.68uF
U1
INV
COMP
MULT
C.S.
Vcc
GD
GND
ZCD
L6561D
D1
R6
47 ohm
Q1
D
S
G
C5
10uF
C4
R8
1.0 ohm
1w
C13
470pF
R3
47K

FIG. 1-B

FIG. 1-C

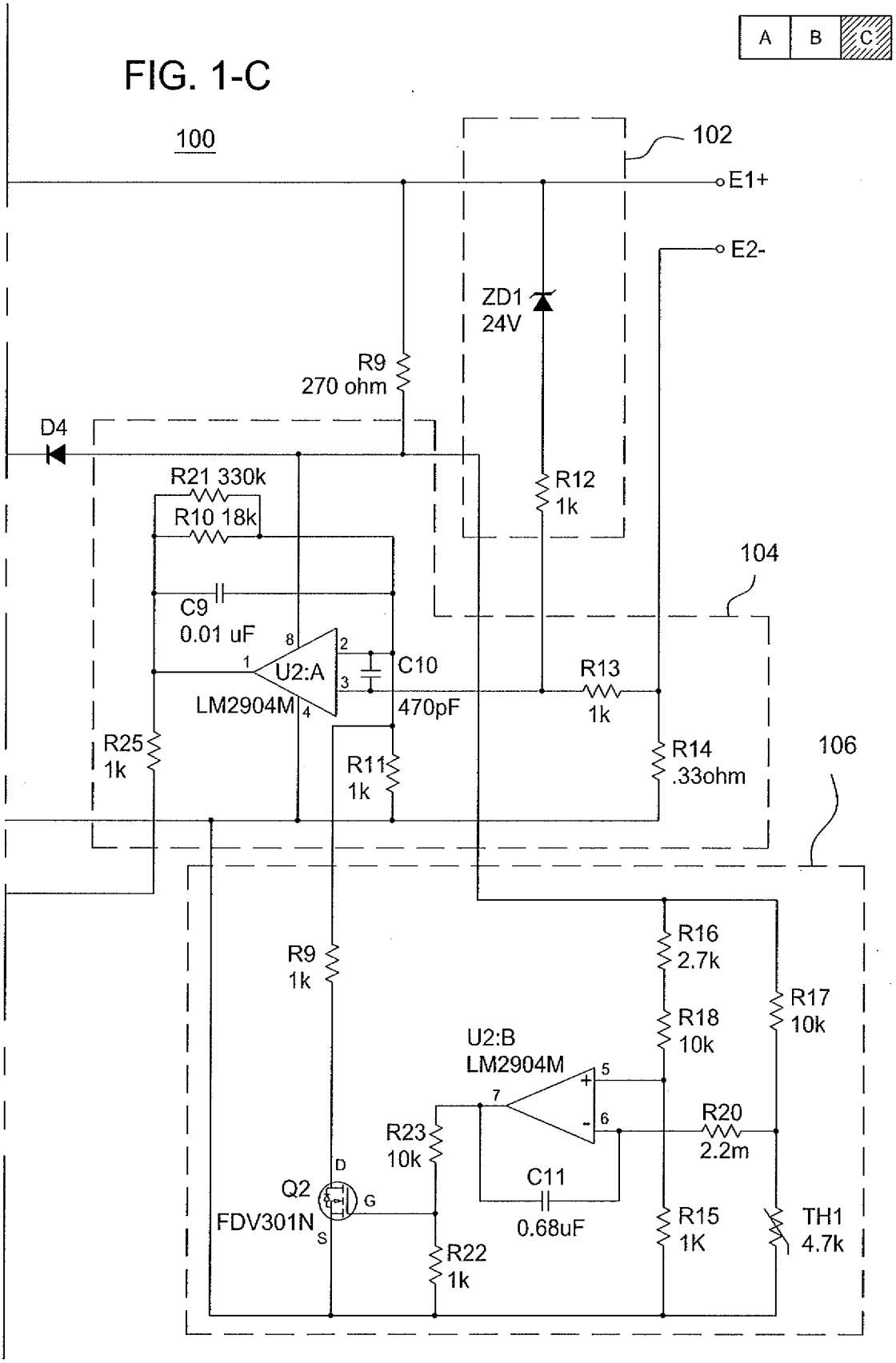

A
B
C
100
102
E1+
E2-
ZD1
24V
R9
270 ohm
D4
R21 330k
R10 18k
R12
1k
104
C9
0.01 uF
U2:A
LM2904M
C10
470pF
R13
1k
R25
1k
R11
1k
R14
.33ohm
106
R9
1k
R16
2.7k
R17
10k
R18
10k
U2:B
LM2904M
R23
10k
R20
2.2m
C11
0.68uF
Q2
FDV301N
R22
1k
R15
1K
TH1
4.7k

FIG. 2-A

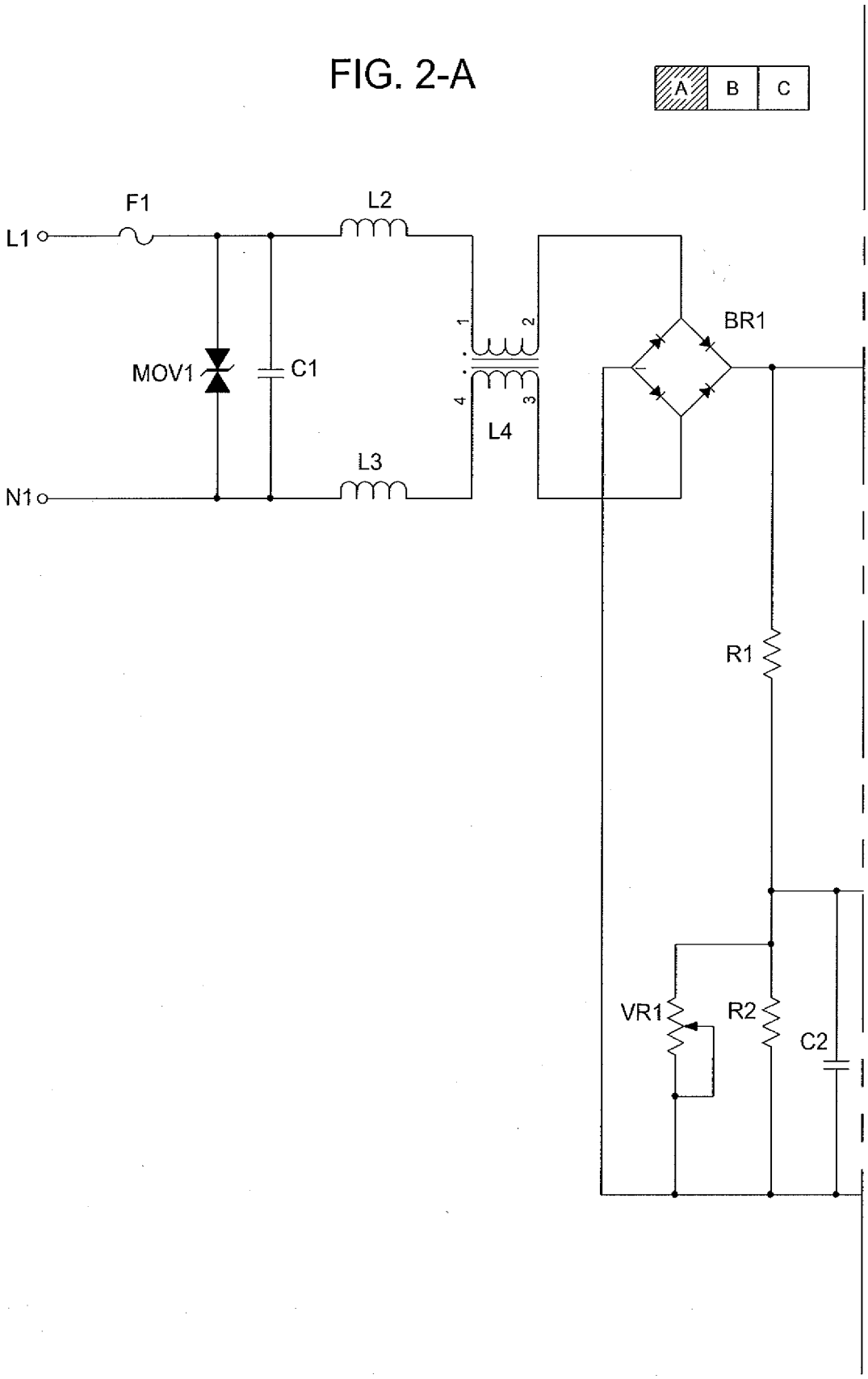
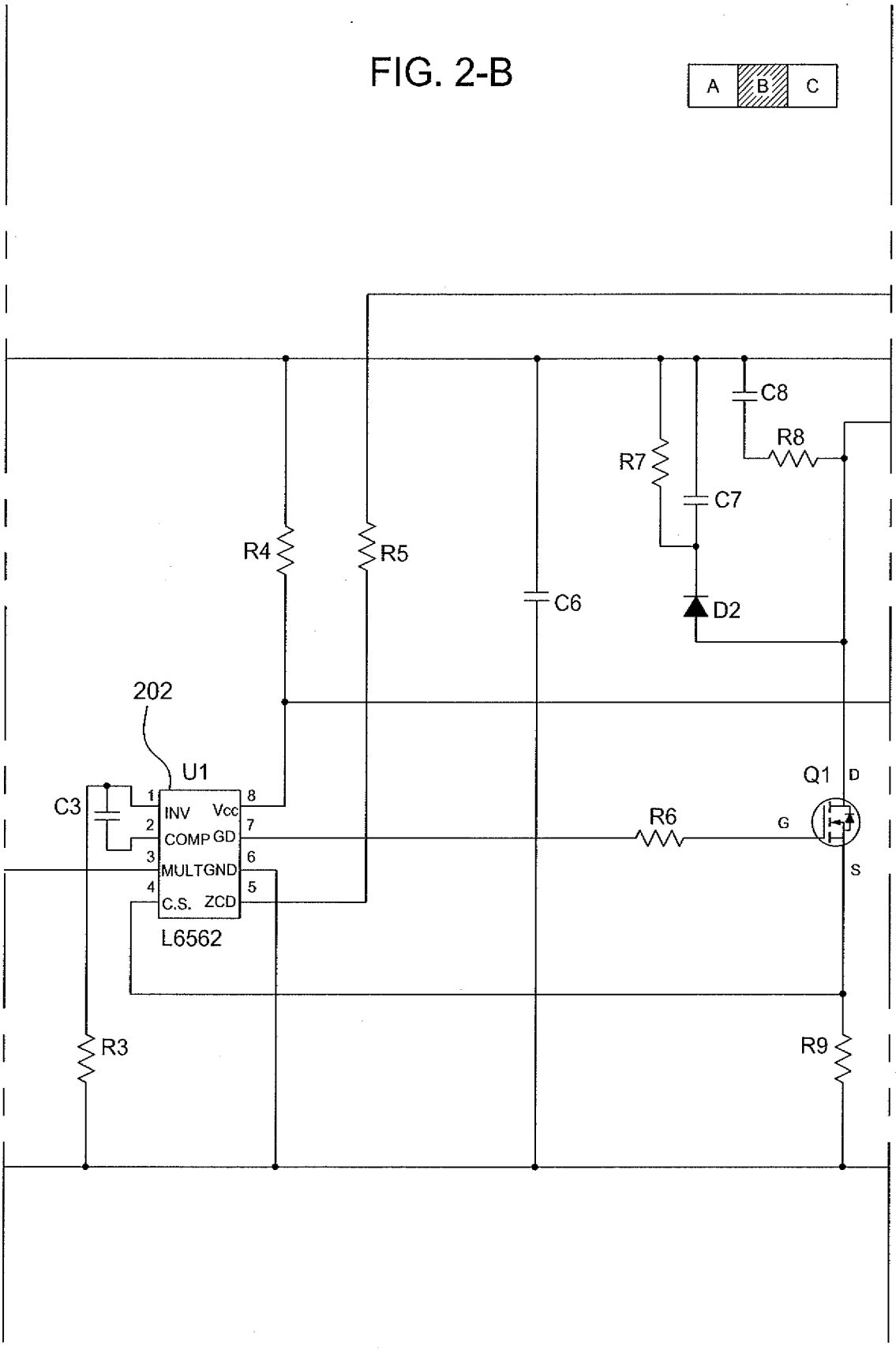
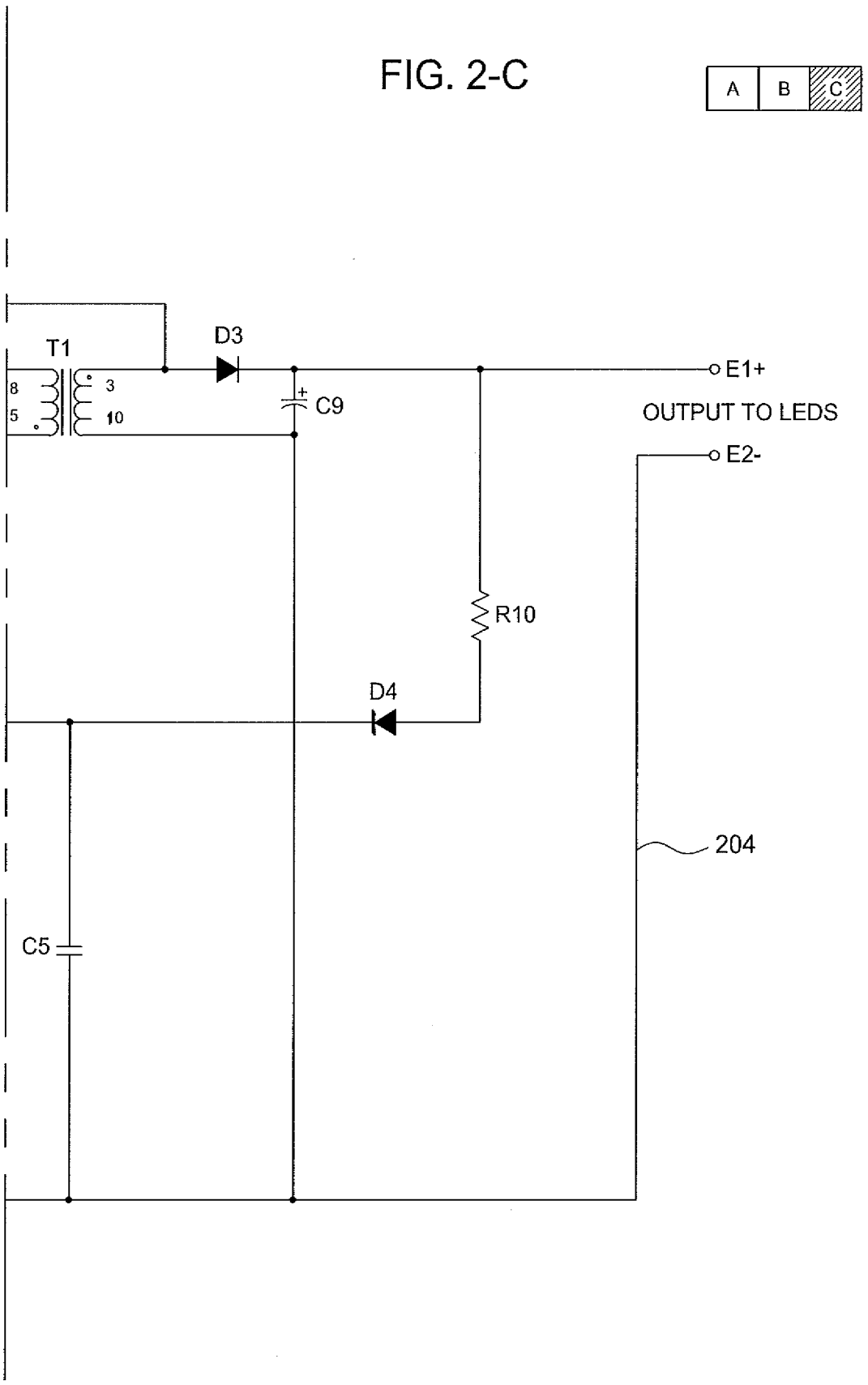


FIG. 2-B


A
B
C
C8
R8
R7
C7
R4
R5
C6
D2
202
U1
C3
1
2
3
4
INV
COMP
MULTGND
C.S.
8
7
6
5
Vcc
GD
ZCD
L6562
Q1
D
G
S
R6
R3
R9

200

FIG. 2-C



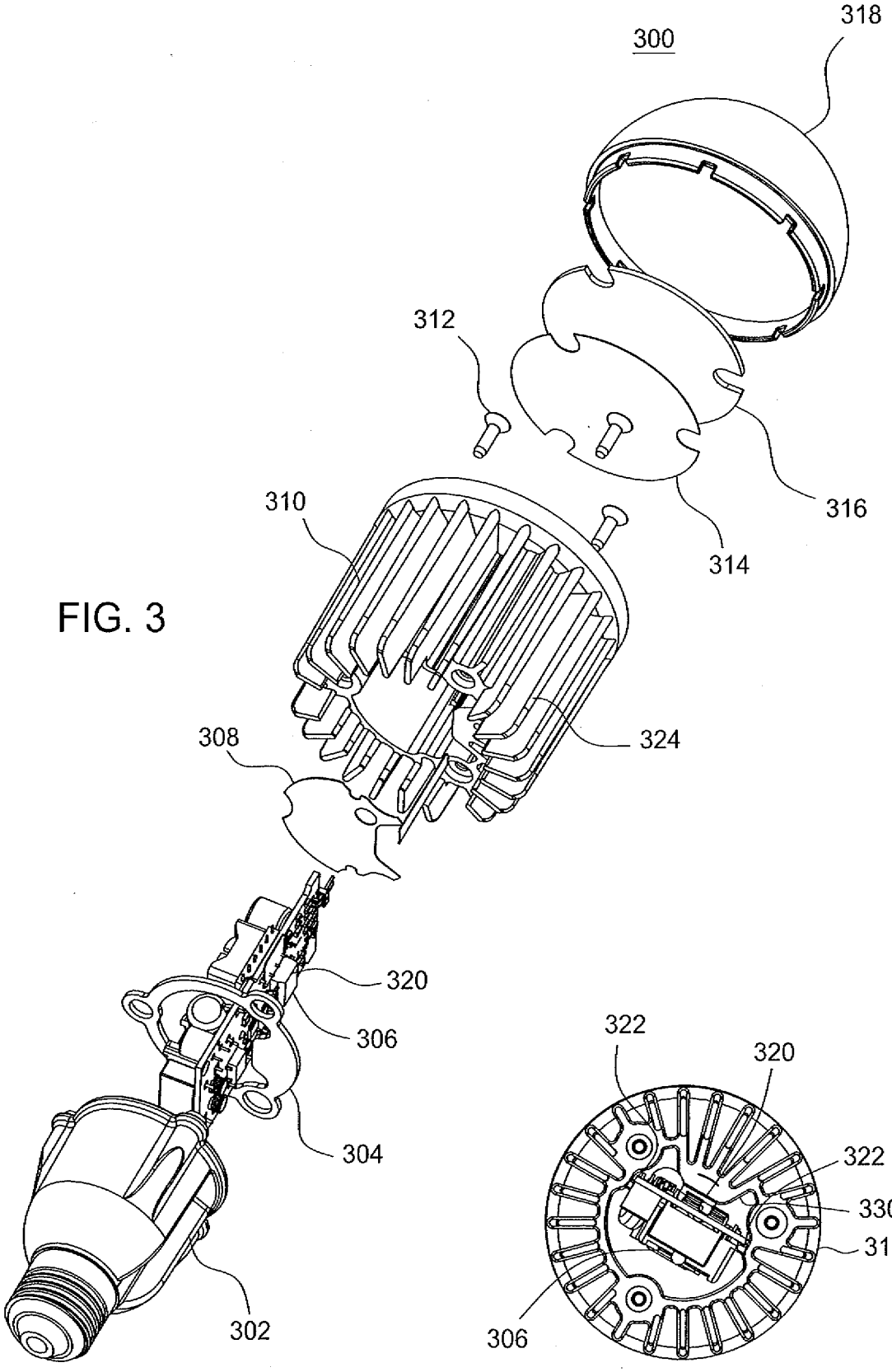

300
318
312
316
314
310
324
308
320
306
304
302

FIG. 3

322
320
322
330
310
306

FIG. 4

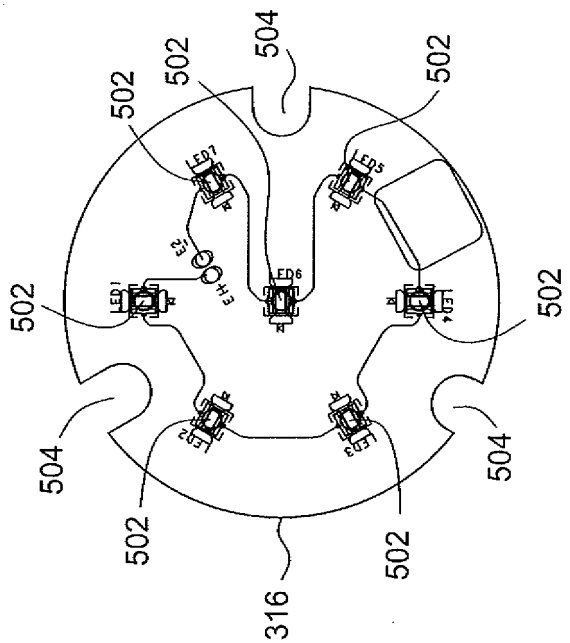


FIG. 5

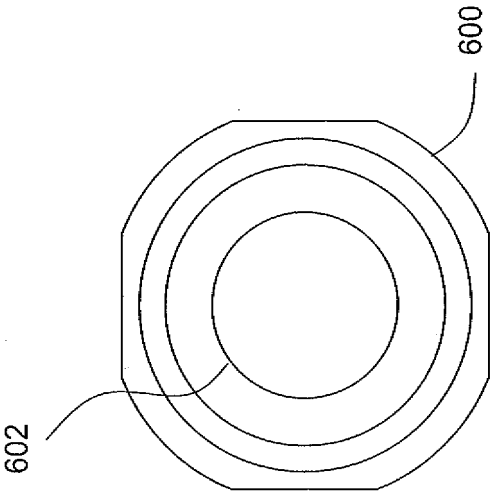


FIG. 8

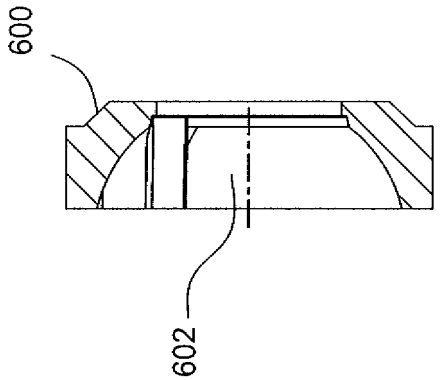


FIG. 7

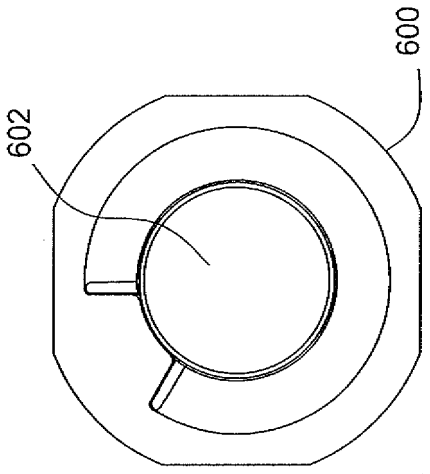


FIG. 6

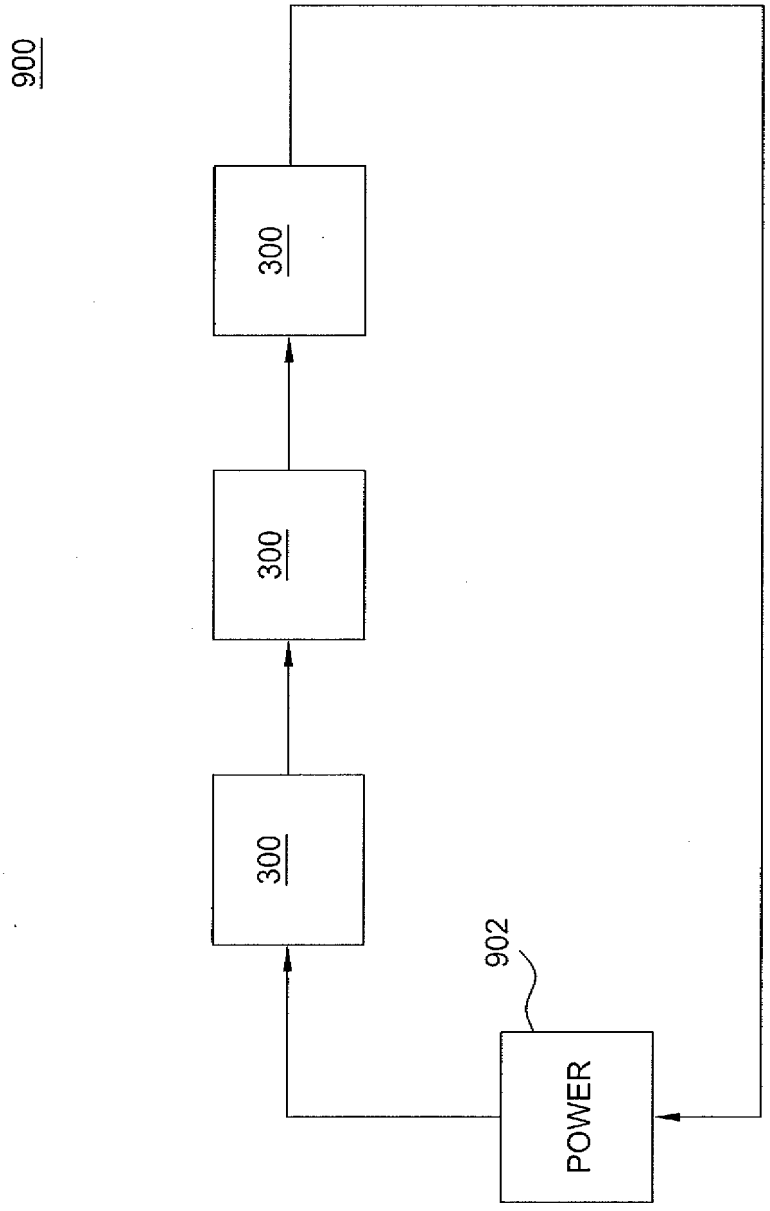


FIG. 9