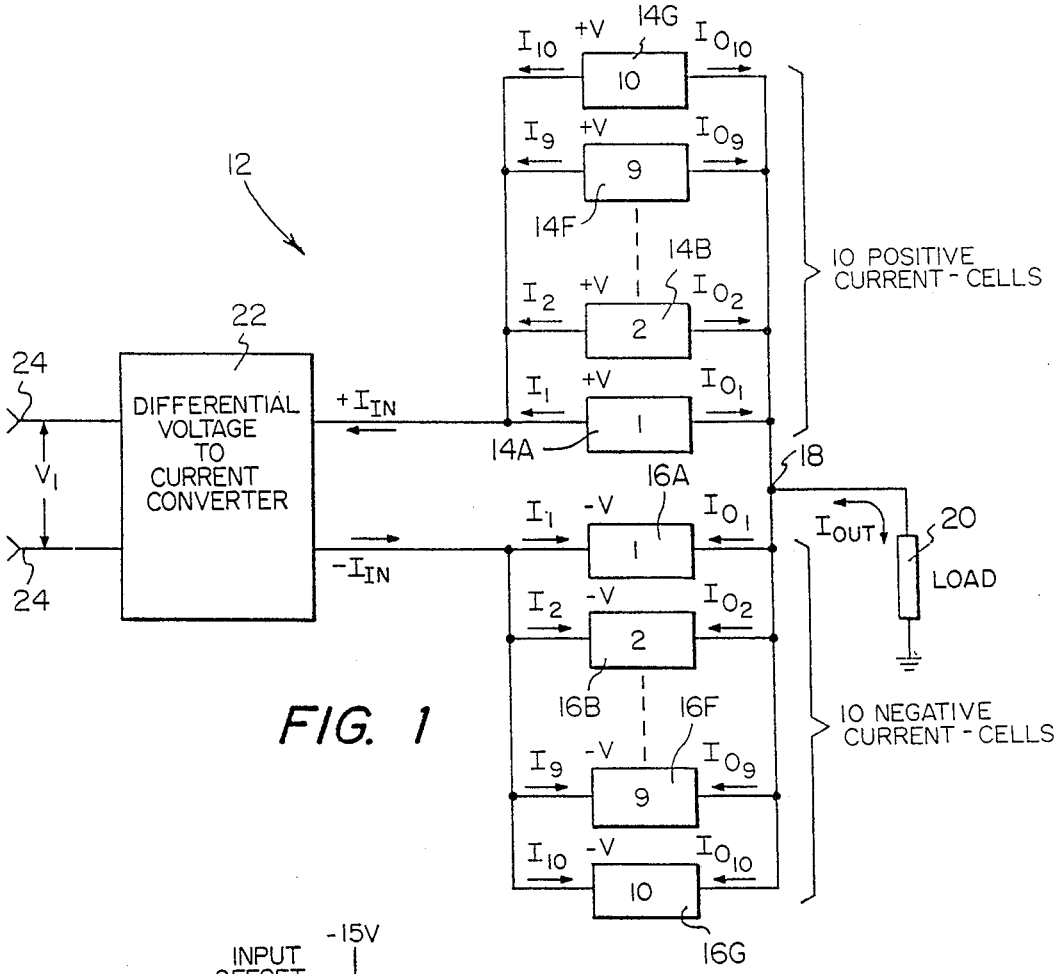
12
22
24
DIFFERENTIAL VOLTAGE TO CURRENT CONVERTER
V_I
$+I_{IN}$
$-I_{IN}$
I_{10} +V 14G I_{O10}
10
I_9 +V I_{O9}
9
14F
14B
I_2 +V I_{O2}
2
I_1 +V I_{O1}
1
14A
18
16A
I_1 -V I_{O1}
1
I_{OUT}
20
LOAD
I_2 -V I_{O2}
2
16B
16F
I_9 -V I_{O9}
9
I_{10} -V I_{O10}
10
16G
10 POSITIVE CURRENT - CELLS
10 NEGATIVE CURRENT - CELLS

FIG. 1

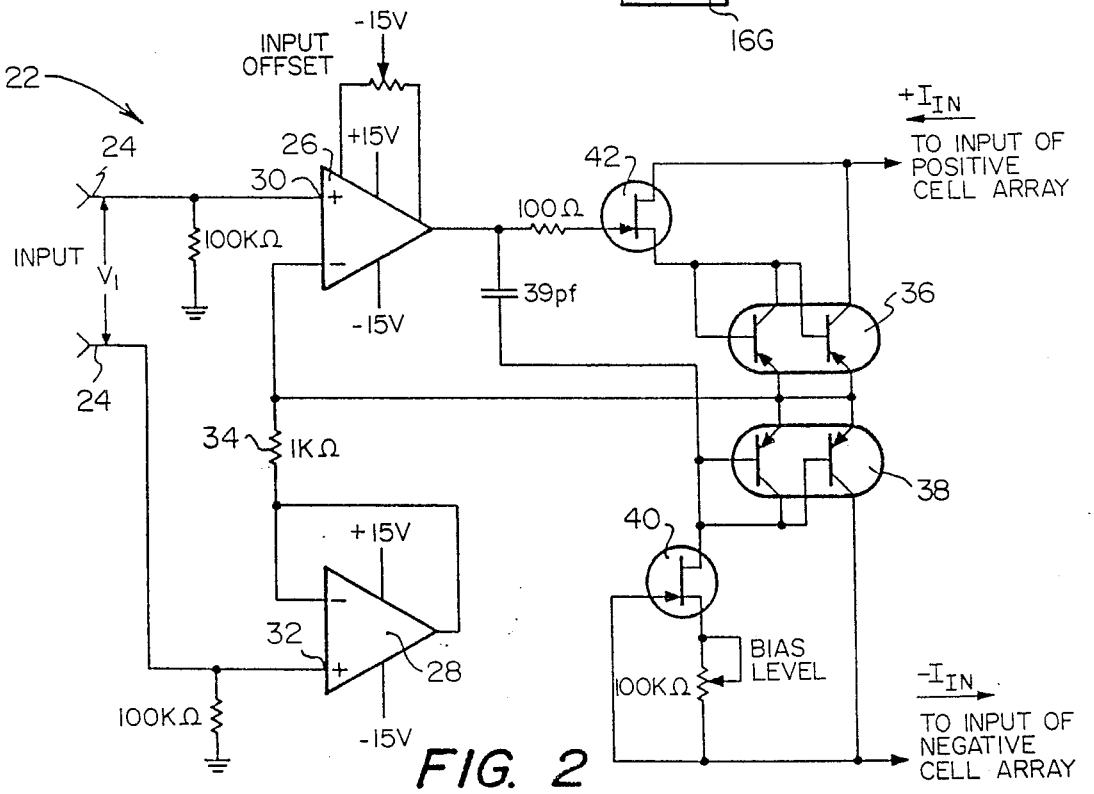
22
INPUT OFFSET
-15V
+15V
26
30
24
INPUT
V_I
100KΩ
-15V
100Ω
39pf
42
$+I_{IN}$
TO INPUT OF POSITIVE CELL ARRAY
36
38
34
1KΩ
+15V
32
28
-15V
100KΩ
40
BIAS LEVEL
100KΩ
$-I_{IN}$
TO INPUT OF NEGATIVE CELL ARRAY

FIG. 2