

# SERVICE MANUAL



## KY 5476 KY 5477

Receiver for A.C. supply  
(Tropicalized)



### I. GENERAL DATA

- a. Waveranges:
- |          |              |
|----------|--------------|
| KY 5476  |              |
| S.W. I   | 11.5 - 24 m  |
| S.W. II  | 23.5 - 51 m  |
| S.W. III | 51 - 175 m   |
| M.W.     | 185 - 575 m  |
| KY 5477  |              |
| S.W. I   | 14.5 - 52 m  |
| S.W. II  | 52 - 175 m   |
| M.W.     | 185 - 575 m  |
| L.W.     | 900 - 2000 m |
- b. Valves:
- |     |        |     |       |
|-----|--------|-----|-------|
| B 1 | ECH 81 | B 5 | EM 80 |
| B 2 | EF 41  | B 6 | EZ 80 |
| B 3 | EABC80 | B 7 | EC 92 |
| B 4 | EL 84  |     |       |
- c. Circuits: Tuned H.F.circuits: 1 + 1  
Tuned I.F.circuits: 2 + 2
- d. Intermediate frequency: Nominal A.M. 452 kc/s
- e. Sensitivity: Better than 10  $\mu$ V on S.W.I, S.W.II  
Better than 10  $\mu$ V on M.W.
- f. Output: 3.2 W at 10% distorsion, measured at 400 p/sec.
- g. Selectivity: 452 kc/s at a 10 fold attenuation 11 kc/s
- h. Mains voltage: Adjustable to 110V, 125V, 150V, 150V, 200V, 220V, 250V.
- i. Controls: Volume control  
Tone control bass  
Pushbuttons for mains switch, gramophone and 4 waveranges  
Tone control treble  
Tuning  
Aerial switch



C o n d e n s e r s

C 1	47 pF	E 103 10/47E	C33	100 pF	E 360 02/100E
2	47 pF	E 103 10/47E	34	220 pF	E 360 02/220E
3	3000 pF	E 360 05/3K	35	50000 pF	E 220 10/50K
4	3-30 pF	7864/01	36	10000 pF	E 112 50/10K
5	1.5-12.5 pF	82754/12E5	37	10000 pF	E 112 50/10K
6	1.5-12.5 pF	82754/12E5	38	10000 pF	E 112 50/10K
7	6-25 pF	82754/25E	39	10000 pF	E 112 50/10K
8	15 pF	E 101 10/15E	40	1500 pF	E 110 50/1K5
9	10-450 pF)		41	10000 pF	GK 198 42
10	9-524 pF)	GK 210 55	42	100 pF	E 360 02/100E
11	470 pF	E 103 10/470E	43	220 pF	E 360 02/220E
12	270 pF	E 360 05/270E	44	5.6 pF	E 101 10/5E6
13	12 pF	E 101 10/12E	45	2200 pF	E 201 10/2K2
14	10000 pF	E 112 50/10K	46	10000 pF	E 201 10/10K
15	220 pF	E 103 10/220E	47	4700 pF	E 201 10/4K7
16	10000 pF	E 112 50/10K	48	100 μF	AC 5713/100
17	50 μF)		49	100 pF	E 103 10/100E
18	50 μF)	GK 180 12	50	2200 pF	E 201 10/2K2
19	10000 pF	E 112 50/10K	51	0.1 μF	E 201 10/100K
20	10 pF	E 125 10/10E	52	220 pF	E 103 10/220E
21	560 pF	E 361 10/560E	53	10000 pF	E 201 10/10K
22	47 pF	E 103 10/47E	54	2200 pF	E 201 10/2K2
23	50 μF	GK 180 33	55	100 μF	AC 5713/100
24	120 pF	E 103 10/120E	56	6800 pF	E 202 10/6K8
25	2000 pF	E 360 05/2K	57		
26	445 pF	E 360 01/445E	58	8 μF	AC 5123/8
27	220 pF	E 360 02/220E	59	0.1 μF	E 200 10/100K
28	1.5-12.5 pF	82754/12E5	60	0.1 μF	E 200 10/100K
29	1.5-12.5 pF	82754/12E5	61	300 pF	E 360 02/300E
30	1.5-12.5 pF	82754/12E5	62	300 pF	E 360 02/300E
31	6-25 pF	82754/25E	63	100 pF	E 103 10/100E
32	100 pF	E 103 10/100E			

R e s i s t o r s

R 1	1 MΩ	GK 776 10/1M	R22	1 MΩ	GK 809 27
2	220 Ω	5496A/220E	23	68000 Ω	GK 776 10/68K
3	180 Ω	GK 776 10/180E	24	1000 Ω	GK 776 10/1K
4	33000 Ω	GK 776 10/33K	25	0.1 MΩ	GK 776 10/100K
5	33000 Ω	GK 777 10/33K	26	0.1 MΩ	GK 776 10/100K
6	27000 Ω	GK 777 10/27K	27	1.8+0.2 MΩ	GK 809 26
7	560 Ω	GK 777 10/560E	28	220 Ω	GK 776 10/220E
8	330 Ω	GK 776 10/330E	29	10 MΩ	GK 776 10/10M
9	0.47 MΩ	GK 776 10/470K	30	0.1 MΩ	GK 776 10/100K
10	1000 Ω	GK 776 10/1K	31	0.22 MΩ	GK 776 10/220K
11	0.1 MΩ	GK 776 10/100K	32	1.5 MΩ	GK 776 10/1M5
12	10 MΩ	GK 776 10/10M	33	1 MΩ	GK 776 10/1M
13	10 MΩ	GK 776 10/10M	34	0.68 MΩ	GK 776 10/680K
14	0.22 MΩ	GK 776 10/220K	35	1000 Ω	GK 776 10/1K
15	0.1 MΩ	GK 776 10/100K	36	150 Ω	GK 776 10/150E
16	0.1 MΩ	GK 776 10/100K	37		
17	0.33 MΩ	GK 776 10/330K	38	0.1 MΩ	GK 809 28
18	0.1 MΩ	GK 776 10/100K	39	3300 Ω	GK 776 10/3K3
19	2.2 MΩ	GK 776 10/2M2	40	3300 Ω	GK 776 10/3K3
20	0.1 MΩ	GK 776 10/100K	41	220 Ω	GK 776 10/220E
21	0.27 MΩ	GK 776 10/270K			

Range	Frequency	Position of cond.	Connection	Sequence of adjusting	
I.F.	452 kc/s	517.5° MW	via 22000 pF on $g_1 B_1$	Adjust I.F.I damped S26/S25-S24/S23	
I.F.filter	452 kc/s	517.5° MW	via 22000 pF to switch A11	S20-S21-S20	
KY 5476					
S.W. I	13 Mc/s 24 Mc/s	445.5° 92°	via artificial aerial	osc. circ.	aer. circ.
				S51 C28	S42 C 4
S.W.II	6.5 Mc/s 12 Mc/s	380° 62.5°	ditto	S53 C31	S44 C 7
S.W.III	1.8 Mc/s 5.5 Mc/s	482° 65°	ditto	S55 C29	S46 C 5
M.W.	550 kc/s 1500 kc/s	470° 75.5°	ditto	S57 C30	S48 C 6
KY 5477					
S.W. I	6.2 Mc/s 19 Mc/s	471° 81°	ditto	S11 C28	S 2 C 4
S.W.II	1.8 Mc/s 5.5 Mc/s	482° 65°	ditto	S13 C29	S 4 C 5
M.W.	550 kc/s 1500 kc/s	470° 75.5°	ditto	S15 C30	S 6 C 6
L.W.	160 kc/s 330 kc/s	450° 60°	ditto	S17 C31	S 8 C 7

C o i l s   a n d   T r a n s f o r m e r s

S 1	30 W	1.7 Ω	aer.coil SW I	S32	620 W	16 Ω	supply
2	11 W	<1 Ω	GK 568 08	33	107 W	2.6 Ω	transf.
3	161.5 W	11 Ω	aer.coil SW II	34	143 W	3.3 Ω	GK 514 08
4	38 W	<1 Ω	GK 568 10	35	300 W	11.5 Ω	
5	11.5 W	<1 Ω	aer.coil MW	36	120 W	4.5 Ω	
6	103 W	2.1 Ω	GK 568 19	37	190 W	6.4 Ω	
7	11.5 W	<1 Ω	aer.coil LW	38	1550 W	180 Ω	
8	314 W	20 Ω	GK 567 90	39	1550 W	195 Ω	
9	27 W	1.7 Ω	osc.coil SW I	40	42 W	<1 Ω	
10	5 W	<1 Ω	GK 568 12	41	30 W	1 Ω	aer.coil
11	11 W	<1 Ω		42	9 W	1 Ω	SW I
12	8 W	<1 Ω	osc.coil SW III	43	31 W	1.8 Ω	GK 568 07
13	27 W	1.7 Ω	GK 568 14	44	20 W	1 Ω	aer.coil
14	21 W	1.5 Ω	osc.coil MW	45	161.5 W	11 Ω	SW II
15	90 W	5.5 Ω	GK 568 15	46	38 W	1 Ω	GK 568 09
16	33 W	2 Ω	osc.coil LW	47	11.5 W	1 Ω	aer.coil
17	193 W	13.5 Ω	GK 568 22	48	98 W	1 Ω	SW III
18	4 W	1 Ω	Wilst osc.coil	49	15 W	1 Ω	GK 568 10
19	4 W	1 Ω	GK 568 06	50	4 W	1 Ω	aer.coil
20	196 W	9 Ω	IF filter	51	6 W	1 Ω	MW
21	802 W	55 Ω	A3 126 85	52	5 W	1 Ω	GK 568 02
22	645 W	0.5 Ω	Hum filter coil	53	11 W	1 Ω	osc.coil
23	260 W	7.4 Ω	GK 567 79	54	8 W	1 Ω	SW II
24	175 W	4.5 Ω	IFitransf.	55	27 W	1.7 Ω	GK 568 13
25	260 W	7.4 Ω	GK 567 95	56	21 W	1.5 Ω	osc.coil
26	175 W	4.5 Ω	IF transf.II	57	90 W	5.5 Ω	SW III
27	2400 W	610 Ω	GK 567 95				GK 568 14
28	70 W	18 Ω	output transf.				osc.coil
29	80 W	1 Ω	GK 513 83				MW
30	8 W	<1 Ω					GK 568 15
31	160 W	39 Ω					

KY 5476

L 1 Loudspeaker LS 21 12 11T  
 L 2 Loudspeaker LS 13 09 06T  
 L 3 Loudspeaker LS 13 09 06T

V 1) Dial lamps 8045D  
 V 2)

KY 5477

L 1 Loudspeaker LS 21 12 11  
 L 2 Loudspeaker LS 13 09 06  
 L 3 Loudspeaker LS 13 09 06

V 1) Dial lamps 8045D  
 V 2)

FIG. 1

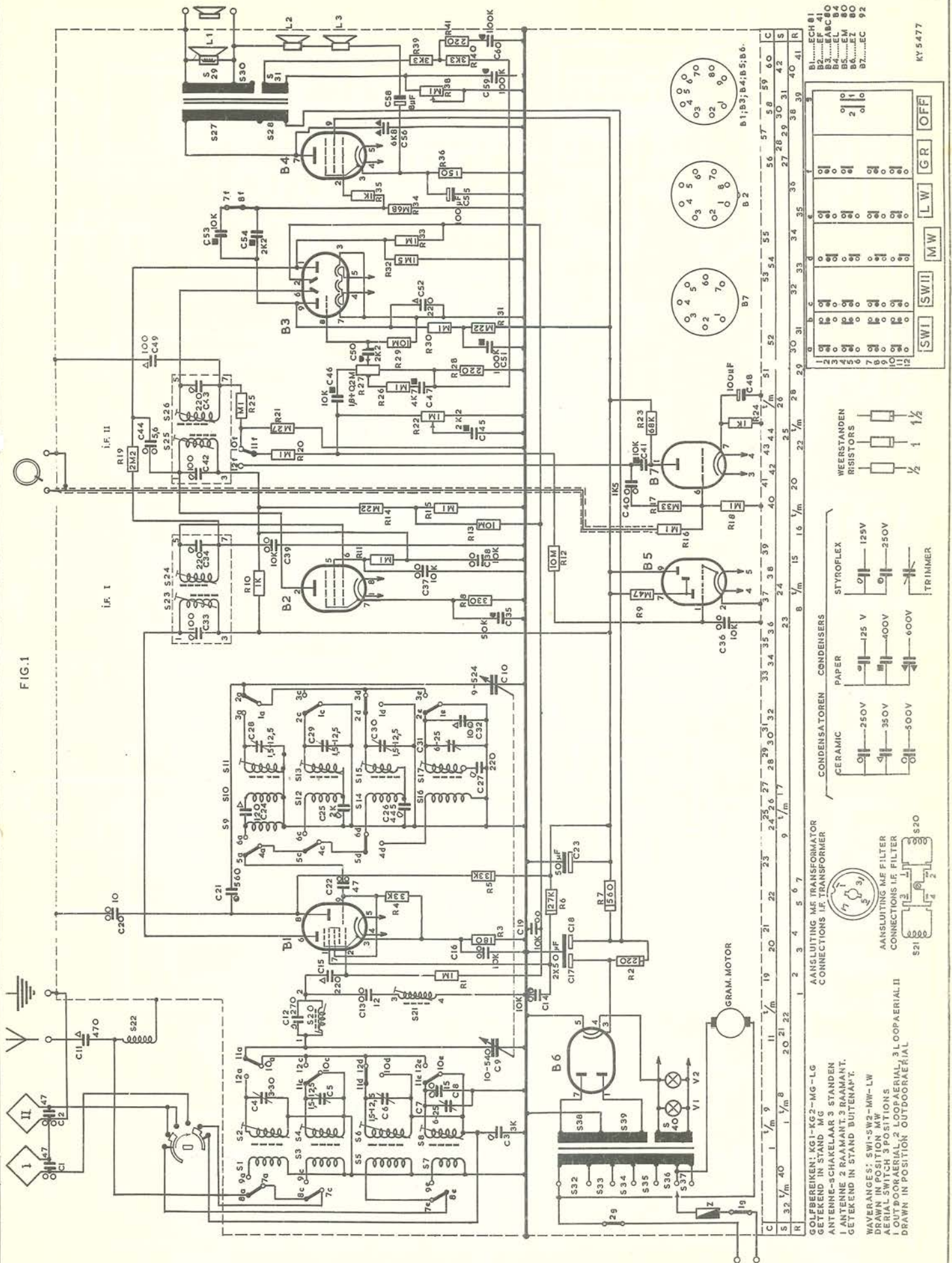
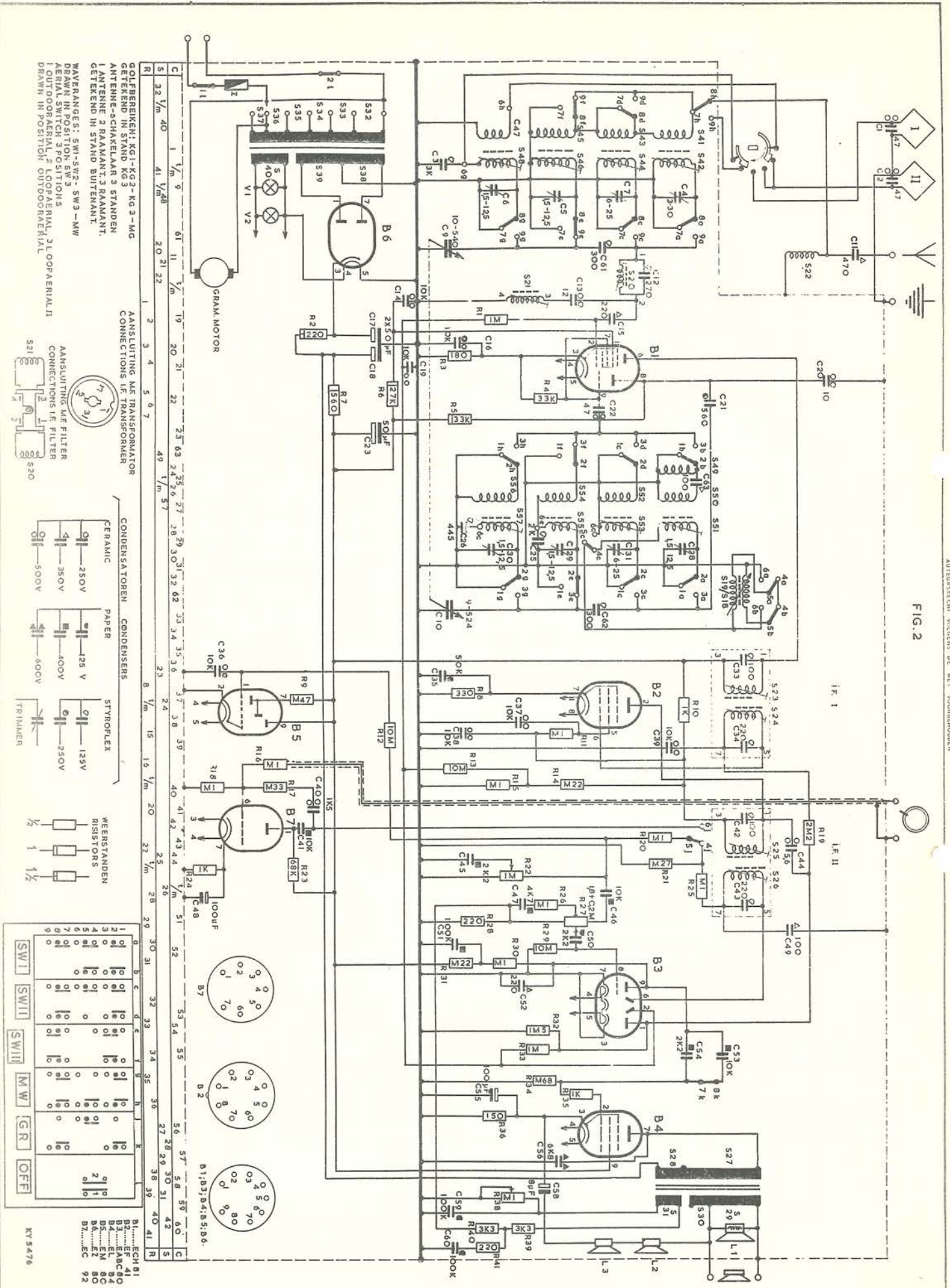
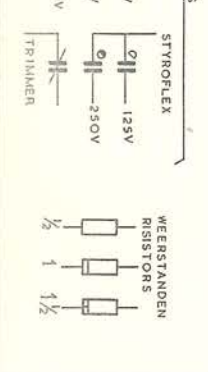
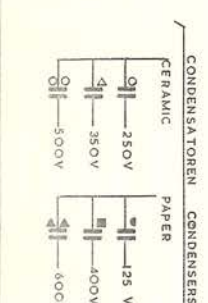


FIG. 2



GOLFBEREKENI: KG1-KG2 - KG 3 - MG  
 GETEKEND IN STAND KG3  
 ANTENNE-SCHAKELAR 3 STANDEN  
 1 ANTENNE 2 RAAMMANT 3 RAAMANT.  
 GETEKEND IN STAND BUITENANT.  
 WAVERANGES: SW1-SW2 - SW3 - MW  
 AANSLUITING POSITIONS  
 1 OUTDOORANT 2 LOOPERAAL 3 LOOPERAAL II  
 DRAWN IN POSITIEF OUTDOORERAAL



SWI	SWII	SWIII	MW	GR	OFF
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72

B1.....CH B1  
 B2.....ER B1  
 B3.....EL B1  
 B4.....EM B1  
 B5.....EM B1  
 B6.....EZ B1  
 B7.....EC B1

auteursrecht volgens de wet voorbehouden

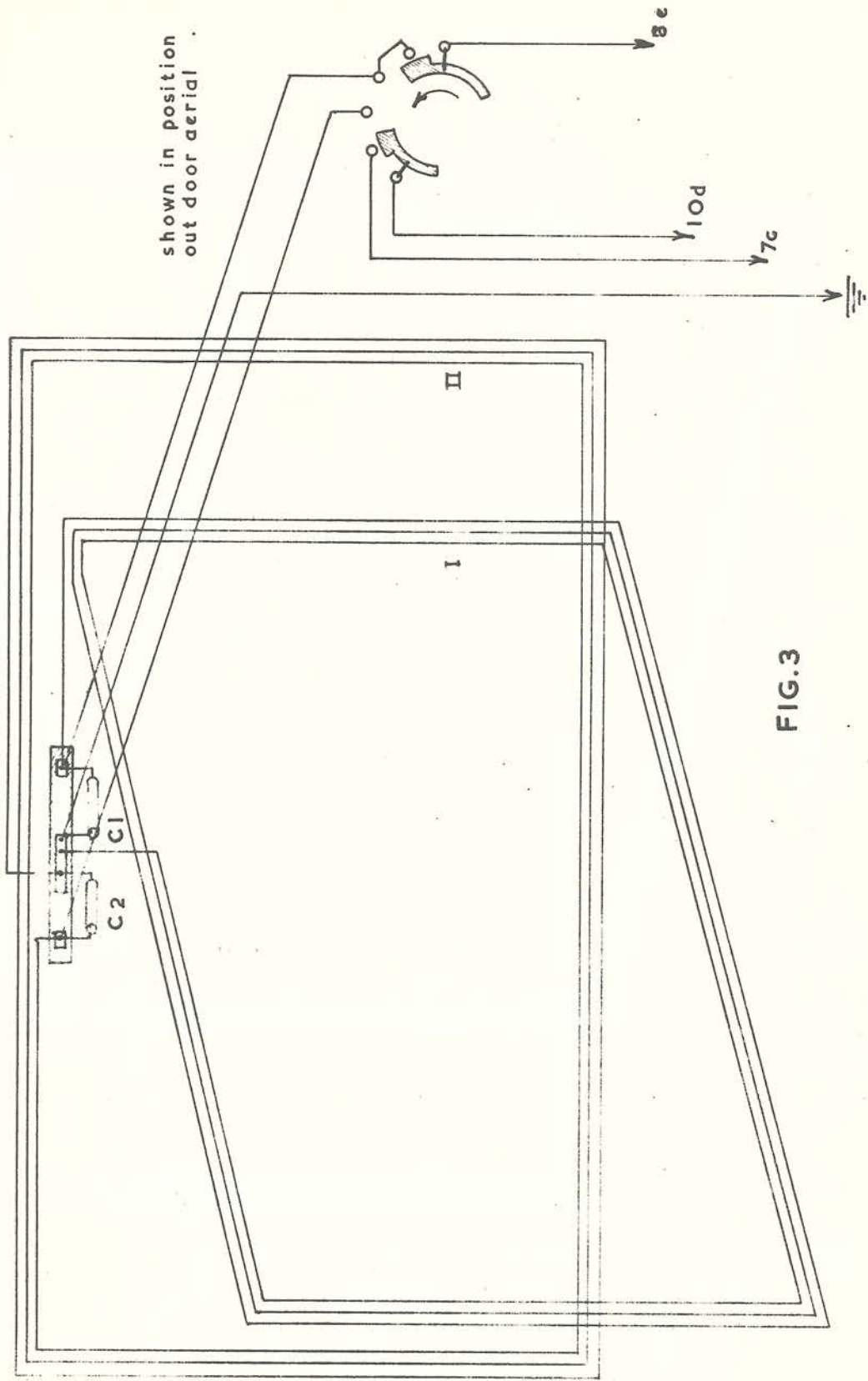


FIG.3



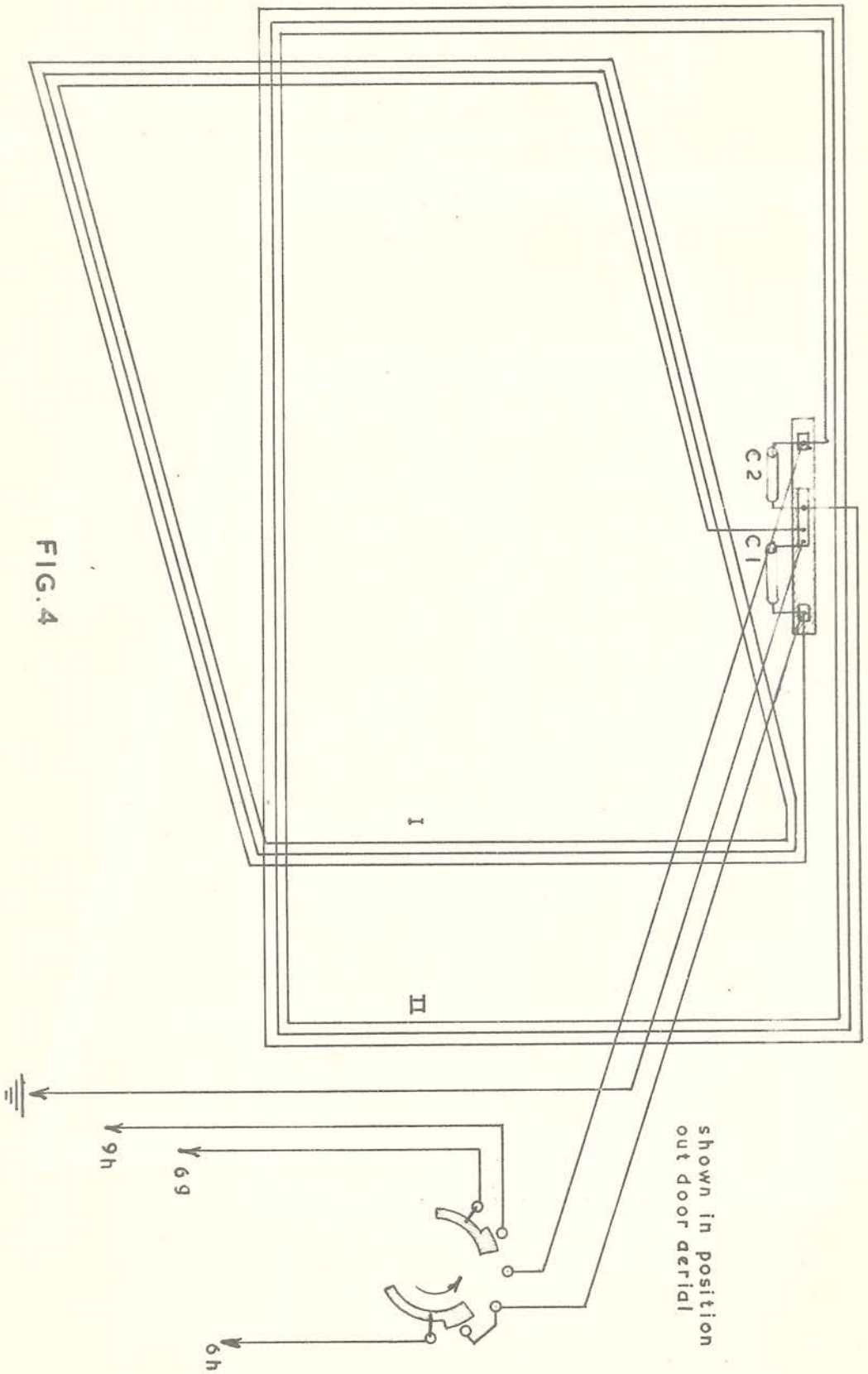
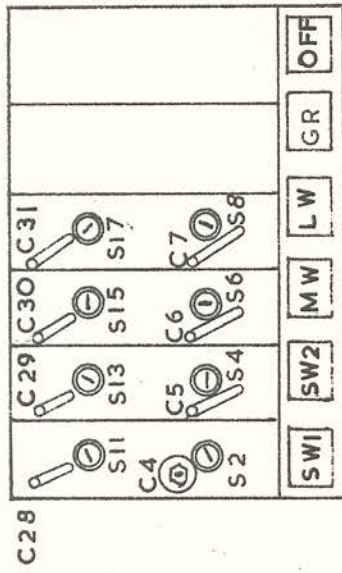
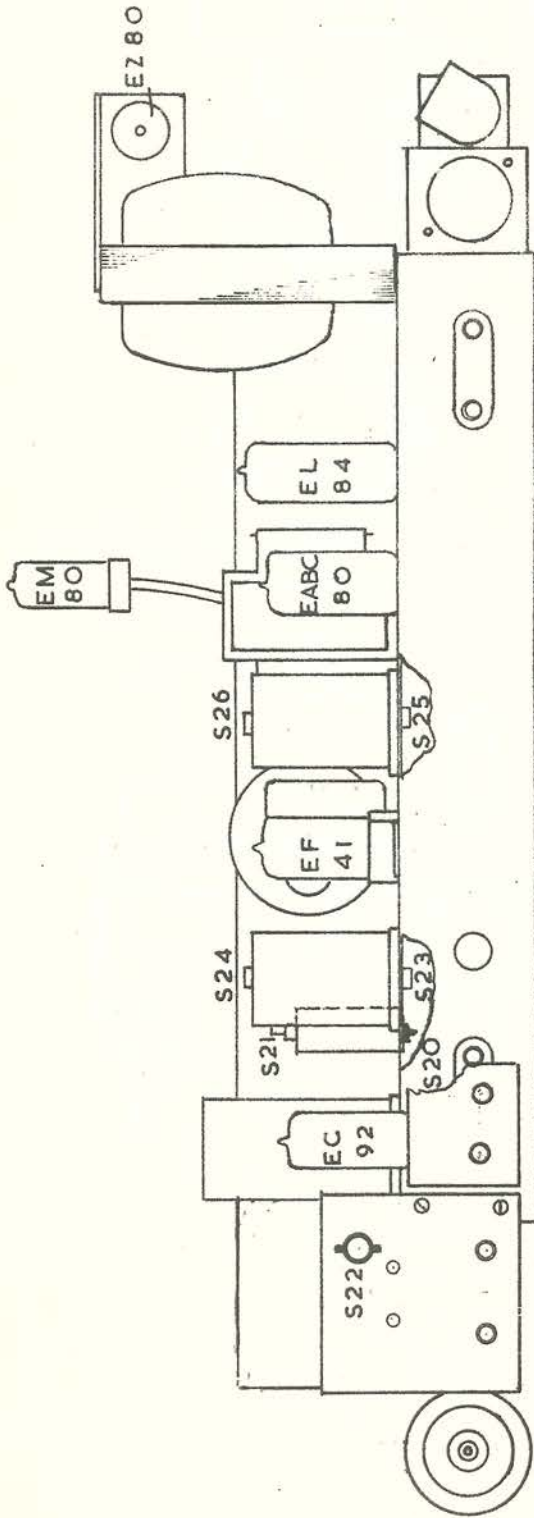
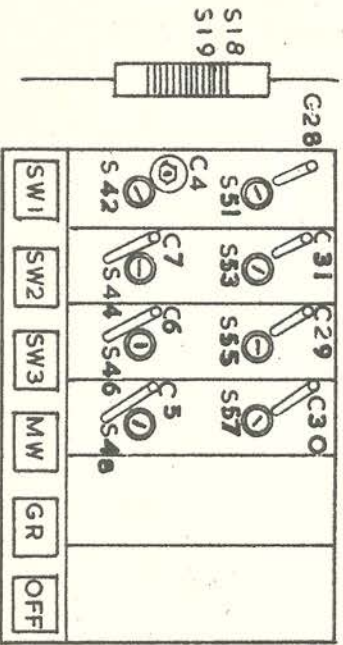
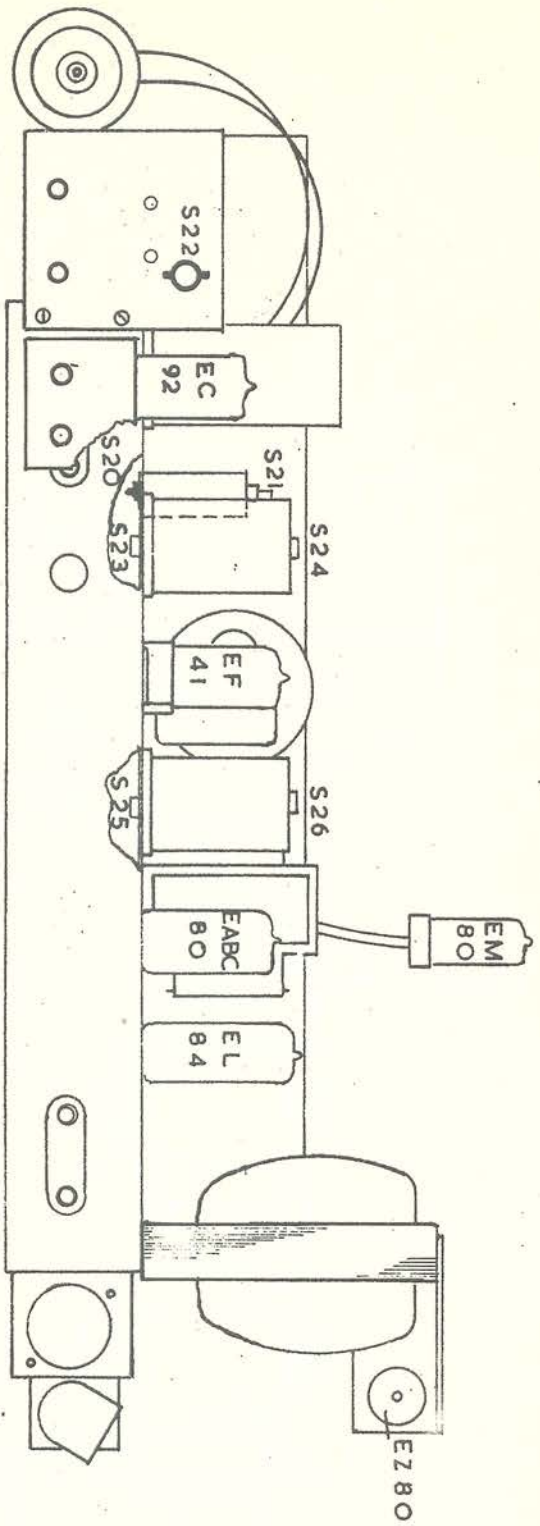


FIG. 4



ADJUST DIAGRAM

FIG. 5



ADJUST DIAGRAM

FIG. 6

FIG. 7

A = 540mm =  $21 \frac{1}{4}$ "  
B = 770mm =  $30 \frac{5}{16}$ "

Variable condenser in position  
of maximum capacity

2 Voudige condensator geheel ingedraad

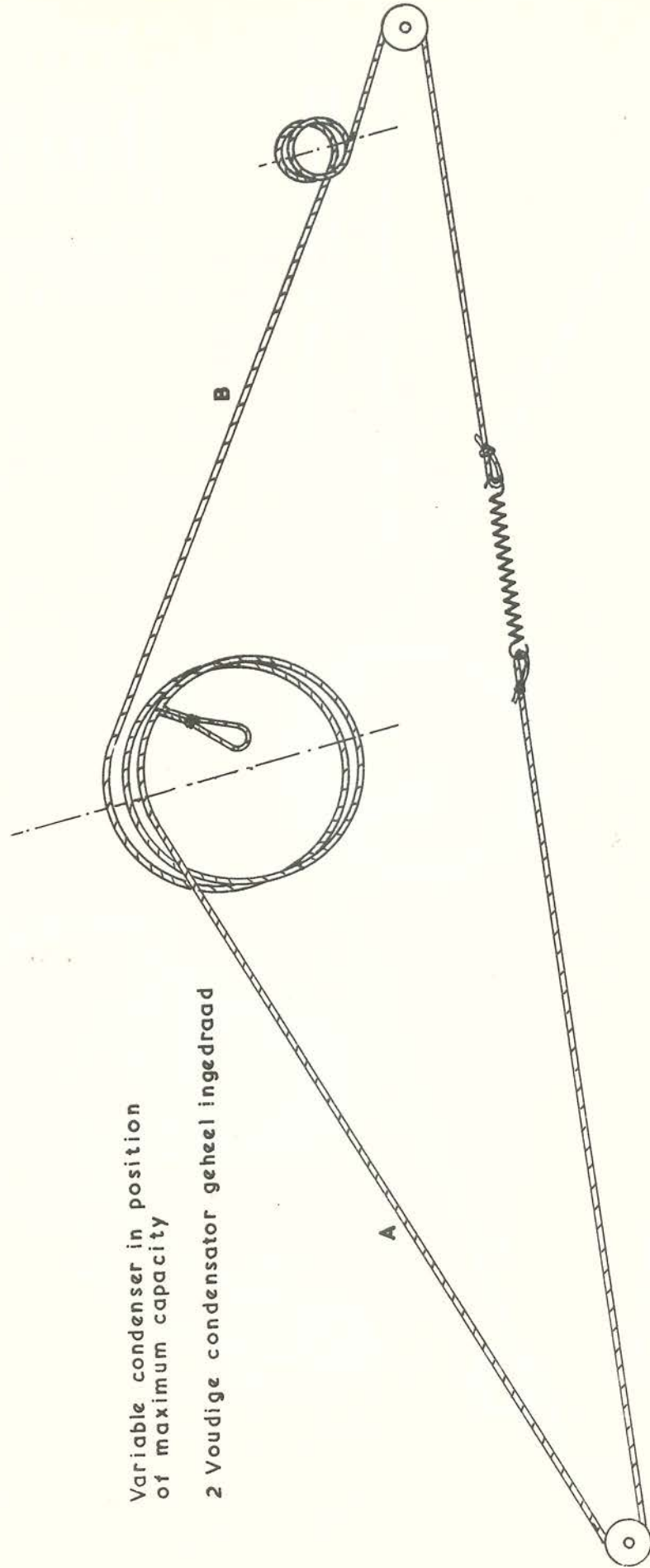
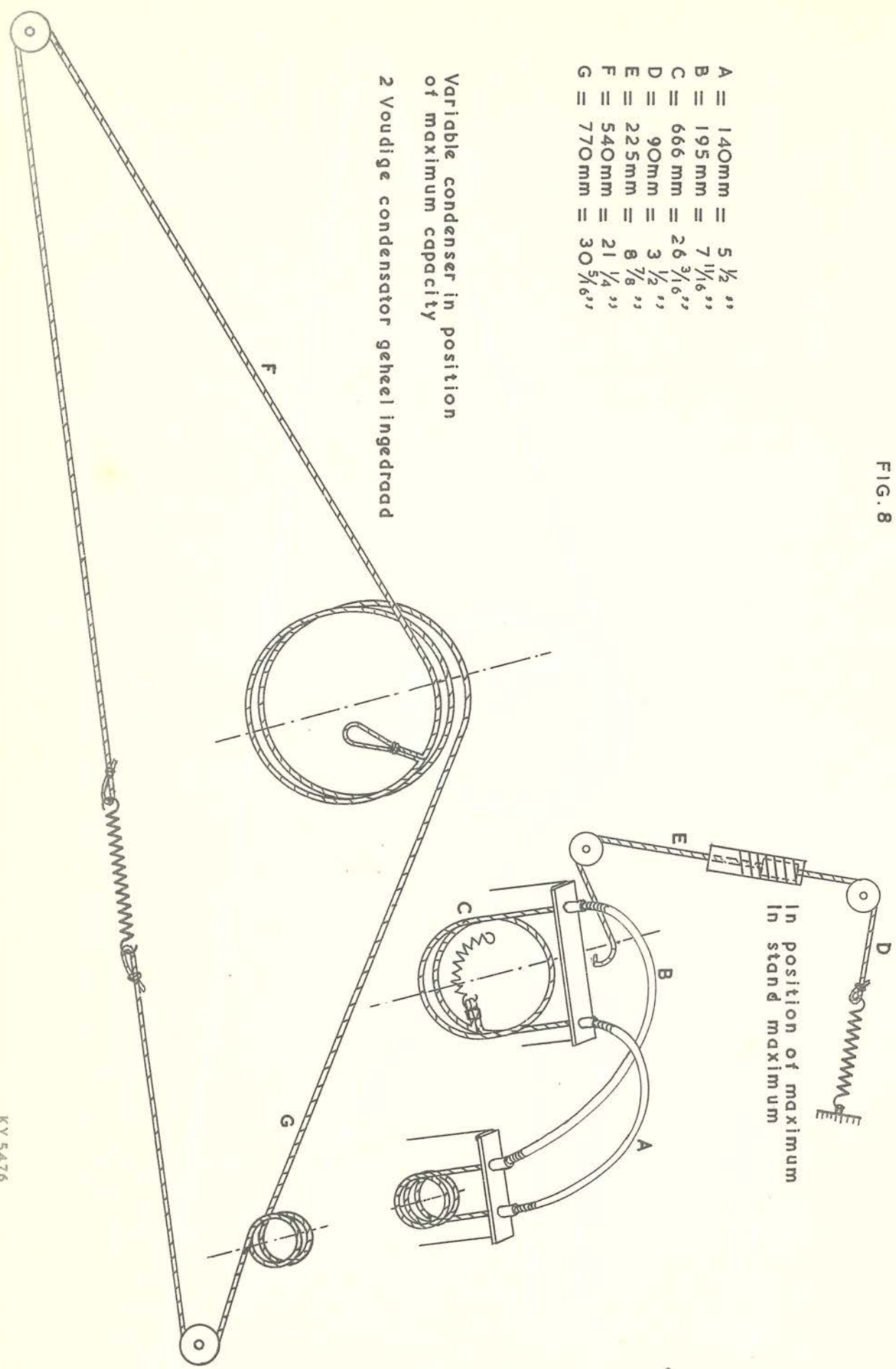


FIG. 8

A =	140mm =	5 1/2 "
B =	195 mm =	7 11/16 "
C =	666 mm =	26 3/16 "
D =	90mm =	3 1/2 "
E =	225mm =	8 7/8 "
F =	540mm =	21 1/4 "
G =	770mm =	30 5/8 "

Variable condenser in position  
of maximum capacity  
2 Voudige condensator geheel ingedraad



In position of maximum  
in stand maximum