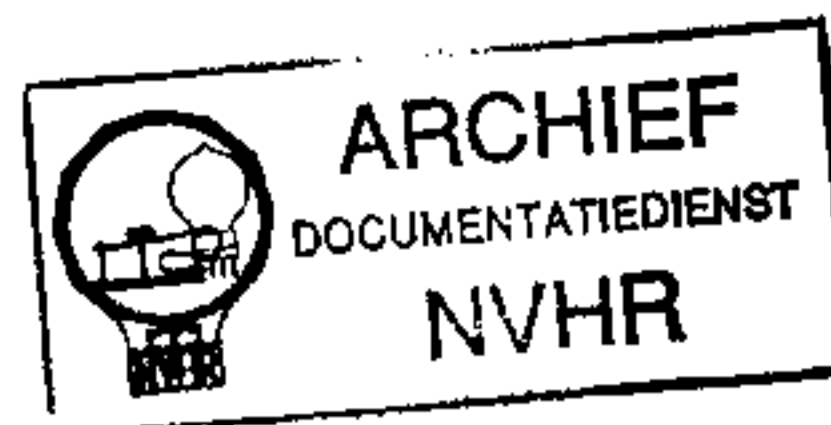


## VII. LIST OF PARTS

## A. MECHANICAL



Item	Fig.	Qty.	Ordering number	Description
1	10	1	5322 347 10061	Polarity indicator
2	10	1	5322 693 90256	Housing
3	10	2	5322 498 70038	Grip retainer
4	10	1	5322 498 30052	Grip
5	10	1	5322 535 40023	Correction screw
6	10	1	5322 413 50742	Range selector knob
7	10	1	5322 455 90377	Text plate (front)
8	10	6	5322 410 21046	Plastic cap for push-button
9	11	1	5322 344 50033	Measuring system complete with magnet and scale
10	11	2	5322 413 40483	Thumb wheel
11	13	1	5322 290 80212	Battery contact with spring
12	13	1	5322 290 80213	Battery contact
13	13	1	5322 115 90076	Coil former with fuse wire
14	13	2	4822 290 80013	Battery contact
15	13	1	5322 273 30219	Segment switch SK1/II
16	13	1	5322 413 70069	Cover for measuring system
17	14	1	5322 693 90111	Transparent window
18	14	1	5322 278 60056	Frame + segment SK1/II
19	14	1	5322 290 60158	Contact block with 4 sockets
20	14	6	5322 276 10368	Push-button
21	14	1	5322 693 90255	Frame
22	—	1	5322 455 90378	Text plate (rear)
23	—	4	5322 462 40109	Rubber foot
24	—	1	5322 693 90253	Cover battery compartment
25	—	30cc	4822 230 80021	Bottle with anti-static liquid

## B. ELECTRICAL

No.	Value	Tol.	Ordering number	Description
R1	10 M $\Omega$	1 %	5322 111 40189	Carbon
R2	9.09 $\Omega$	1 %	5322 116 50863	Metal film
R3	90.9 $\Omega$	1 %	5322 116 50799	Metal film
R4	909 $\Omega$	1 %	5322 116 50765	Metal film
R5	9.09 k $\Omega$	1 %	5322 116 50537	Metal film
R6	90.9 k $\Omega$	0.25 %	5322 116 50859	Metal film
R7	1 M $\Omega$	1 %	5322 111 20317	Carbon
R8	10 M $\Omega$	10 %	5322 111 30342	Carbon
R9	470 k $\Omega$	-	5322 101 20368	Potentiometer
R10	120 k $\Omega$	5 %	4822 110 61163	Carbon
R11a	2.2 M $\Omega$	1 %	5322 111 20318	Carbon
R11b	120 k $\Omega$	5 %	4822 110 61163	Carbon
R12a	510 k $\Omega$	1 %	5322 116 50334	Carbon
R12b	46.4 k $\Omega$	1 %	5322 116 50557	Metal film
R13a	162 k $\Omega$	1 %	5322 116 50813	Metal film
R13b	1.5 k $\Omega$	5 %	4822 110 61112	Carbon
R14a	49.9 k $\Omega$	1 %	5322 116 50674	Metal film
R14b	330 $\Omega$	5 %	4822 110 61094	Carbon
R15a	15.8 k $\Omega$	0.25 %	5322 116 50857	Metal film
R15b	100 $\Omega$	5 %	4822 110 61081	Carbon
R16	4.99 k $\Omega$	1 %	5322 116 50523	Metal film
R17	1.58 k $\Omega$	1 %	5322 116 50622	Metal film
R18	499 $\Omega$	1 %	5322 116 50847	Metal film
R19	158 $\Omega$	1 %	5322 116 50836	Metal film
R20	49.9 $\Omega$	1 %	5322 116 50173	Metal film
R21	15.8 $\Omega$	1 %	5322 116 50861	Metal film
R22	4.99 $\Omega$	1 %	5322 116 50568	Metal film
R23	1.58 $\Omega$	1 %	5322 116 50862	Metal film
R24, R25	500 m $\Omega$ +50 m $\Omega$	-	5322 115 80097	Shunt
R26	10 k $\Omega$	5 %	4822 110 60134	Carbon
R100	10 M $\Omega$	1 %	5322 111 53189	Carbon
R101	1.5 M $\Omega$	10 %	4822 111 30077	Carbon
R102	1 k $\Omega$	5 %	4822 110 60107	Carbon
R103	33 k $\Omega$	5 %	4822 110 60147	Carbon
R104	33 k $\Omega$	5 %	4822 110 60147	Carbon
R105	1 k $\Omega$	-	5322 101 20367	Potentiometer
R106	220 $\Omega$	5 %	4822 110 61089	Carbon
R107	47 k $\Omega$	5 %	4822 110 61152	Carbon
R108	180 k $\Omega$	5 %	4822 110 60167	Carbon
R109	18 k $\Omega$	5 %	4822 110 61141	Carbon

No.	Value		Tol.	Ordering number	Description
R110	100	k $\Omega$	5 %	4822 110 61161	Carbon
R111	22	k $\Omega$	5 %	4822 110 61143	Carbon
R112	22	k $\Omega$	5 %	4822 110 61143	Carbon
R113	22	k $\Omega$	5 %	4822 110 61143	Carbon
R114	30	k $\Omega$	1 %	5322 116 50121	Carbon
R115	270	k $\Omega$	1 %	5322 116 50531	Carbon
R116	1.47	k $\Omega$	1 %	5322 116 50635	Metal film
R117	2.74	k $\Omega$	1 %	5322 116 50636	Metal film
R118	1	k $\Omega$		5322 101 20242	Potentiometer
R119	187	k $\Omega$	1 %	4822 116 50128	Metal film
R121	487	$\Omega$	1 %	5322 116 50659	Metal film
R122	100	k $\Omega$	1 %	5322 116 50244	Metal film
R123	18	k $\Omega$	5 %	4822 110 61136	Carbon
R124	22	k $\Omega$	5 %	4822 110 61143	Carbon
R125	1	k $\Omega$	5 %	4822 110 61107	Carbon
R126	1	k $\Omega$	5 %	4822 110 61107	Carbon
R127	100	$\Omega$	5 %	4822 110 60081	Carbon

Capacitors

No.	Value		Voltage	Tol.	Ordering number	Description
C1	100	pF	500 V	2 %	4822 122 10092	Ceramic
C2	100	pF	500 V	2 %	4822 122 10092	Ceramic
C3	6	pF			5322 125 60069	Trimmer
C4	215	pF	125 V	1 %	4822 425 42151	Micropoco
C5	887	pF	63 V	1 %	5322 121 50484	Micropoco
C6	3.01	nF	63 V	1 %	5322 121 50483	Micropoco
C7	10	nF	63 V	1 %	5322 121 50097	Minipoco
C8	31.6	nF	63 V	1 %	5322 121 50486	Minipoco
C9	100	nF	63 V	1 %	5322 121 50425	Minipoco
C10a	158	nF	63 V	1 %	5322 121 50485	Minipoco
C10b	158	nF	63 V	1 %	5322 121 50485	Minipoco
C11	220	nF	100 V	10 %	4822 121 40194	Mepolesco
C100	6.8	nF	500 V	-20/+50 %	4822 120 11129	Ceramic
C101	15	nF	250 V	10 %	4822 121 40049	Nugget
C102	15	nF	250 V	10 %	4822 121 40049	Nugget
C103	10	nF	250 V	10 %	4822 121 40047	Nugget
C104	220	nF	250 V	10 %	4822 121 40079	Nugget
C105	220	nF	250 V	10 %	4822 121 40079	Nugget
C106	1	$\mu$ F	100 V	10 %	5322 121 40176	Mepolesco
C107	20	pF	-	-	4822 125 50045	Trimmer
C108	100	pF	500 V	5 %	4822 120 11081	Ceramic
C113	4.7	nF	500 V	-20/+50 %	4822 120 10125	Ceramic

## C. MISCELLANEOUS

No.	Ordering number	Description
$U_A$	5322 216 70134	Printed-wiring board with components
$U_B$	5322 216 70135	Printed-wiring board with push-button switches
$U_C$	5322 216 70133	Printed-wiring board with components
$TS1 \left. \begin{array}{l} \\ TS2 \end{array} \right\}$	5322 130 40702	Dual f.e.t. ON285
TS3	5322 130 40324	Silicon transistor
TS4	5322 130 40324	Silicon transistor
TS5	5322 130 40325	Silicon transistor
TS6	5322 130 40324	Silicon transistor
GR1 ... GR7	4822 130 40182	Silicon diode

## PM 9240

## A. GENERAL

The probe PM 9240 has been designed for measuring direct voltages up to 30 kV in combination with the PM 2403.

The high-ohmic resistor in the probe (990 M $\Omega$ ) forms a voltage divider with the input resistance (10 M $\Omega$ ) of the PM 2403.

## B. TECHNICAL DATA

Inaccuracy	: 10 % (error PM 2403 included)
Attenuation	: 100 x (in combination with PM 2403)
Maximum permissible input voltage	: 30 kV
Input impedance	: approx. 1000 M $\Omega$
Current consumption	: 30 $\mu$ A at 30 kV; further proportional to voltage
Stability	: better than 10 %
Dimensions	: length 250 mm diameter 25 mm (safety ring 40 mm)
Weight	: 200 g

## C. USE

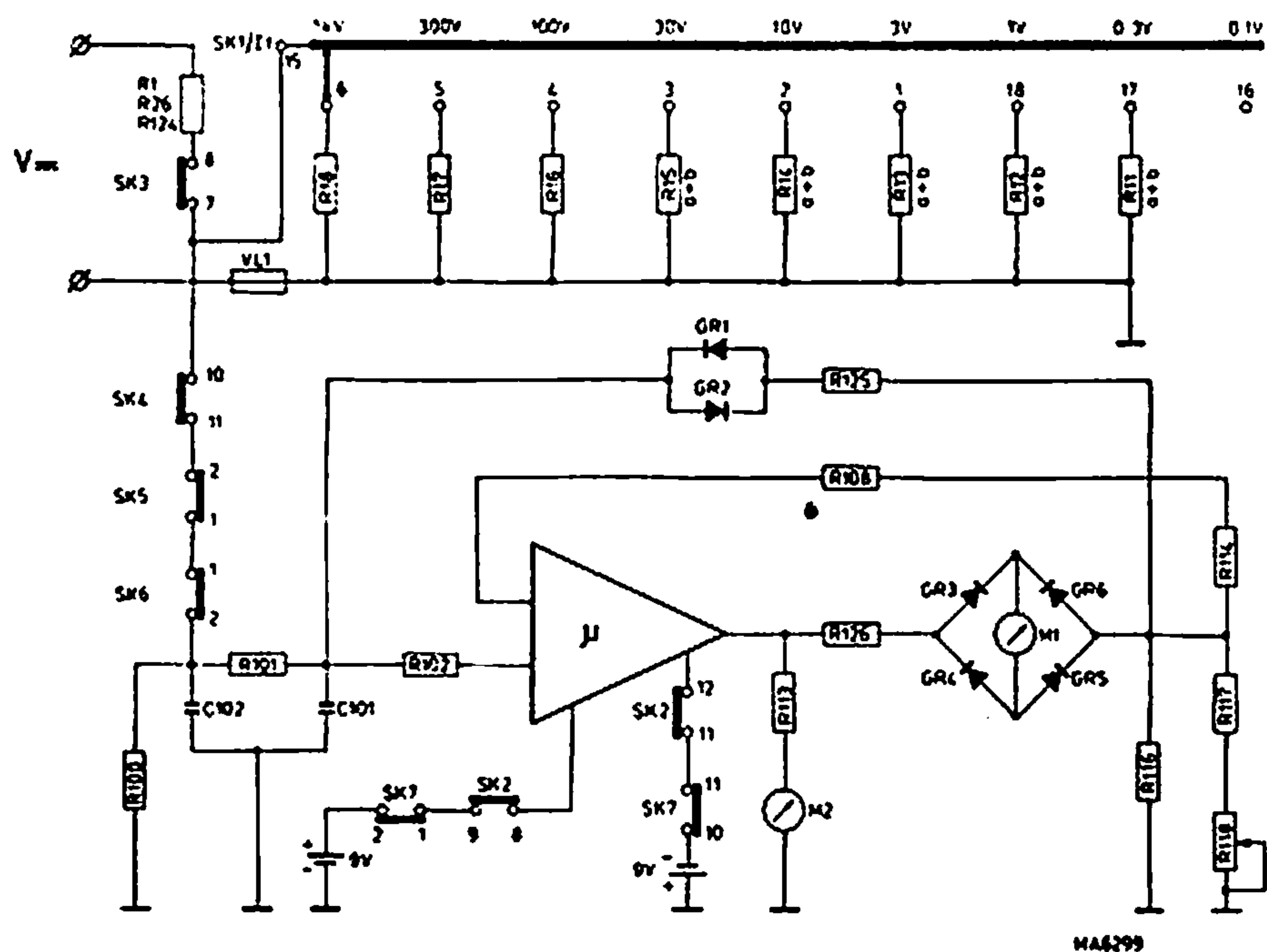
- Check the zero setting and the calibration of the PM 2403
- Connect the 4 mm plugs of the probe to sockets "0" and "V" of the PM 2403 and the earthing-clip to a proper earth lead
- In position "300 V" max. 30 kV can then be measured, in position "100 V" max. 10 kV and in position "30 V" max. 3 kV

## D. DISMANTLING

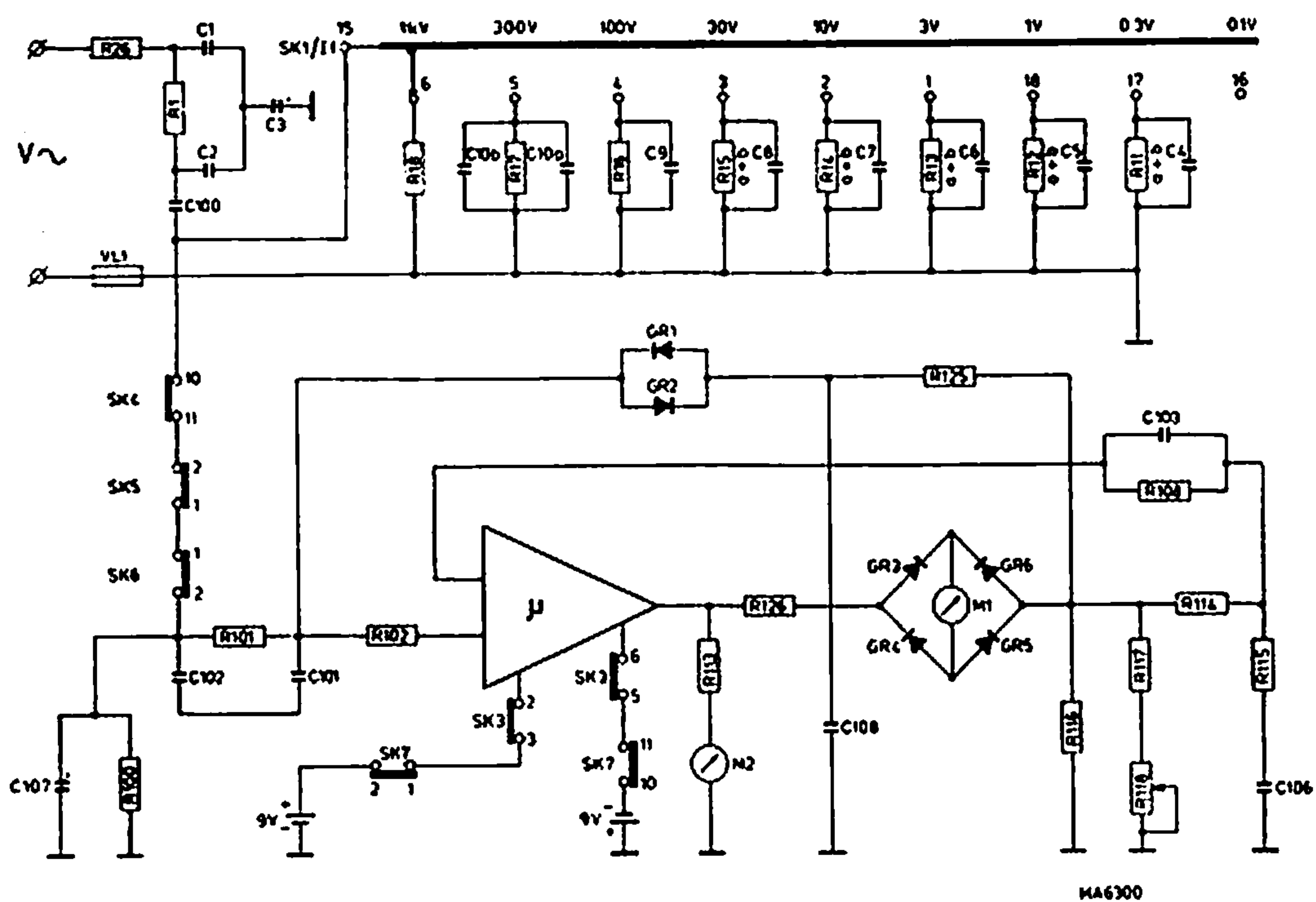
- Unscrew safety ring
- Remove the insulating tube (grip)
- All parts are then accessible

## E. LIST OF PARTS

Pos.	Fig.	Qty.	Ordering number	Description
1	18	1	5322 268 10003	Test prod
2	18	1	5322 447 60026	Insulating tube
3	18	1.5 m	4822 322 10006	Cable (black)
4	18	1 m	4822 323 20046	Cable (for earth connection)
5	18	1	4822 290 40042	Earthing clip
6	18	1	4822 264 30034	4-mm plug red
7	18	1	4822 264 30033	4-mm plug black
R1	18	1	5322 111 70039	Resistor 990 M $\Omega$ , 5 W, $\pm 5\%$



**Fig. /Abb. 2**



**Fig. /Abb. 3**

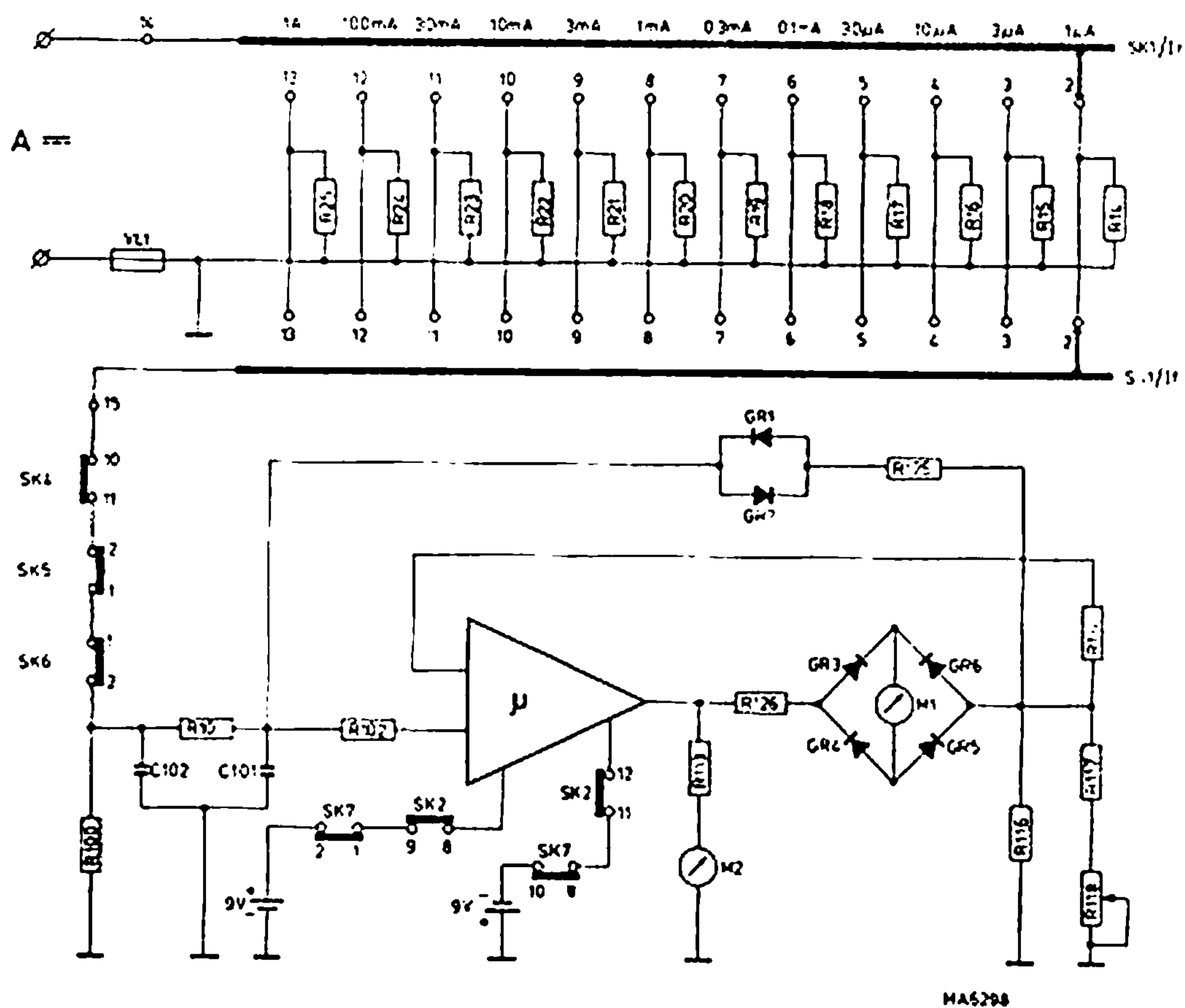


Fig./Abb. 4

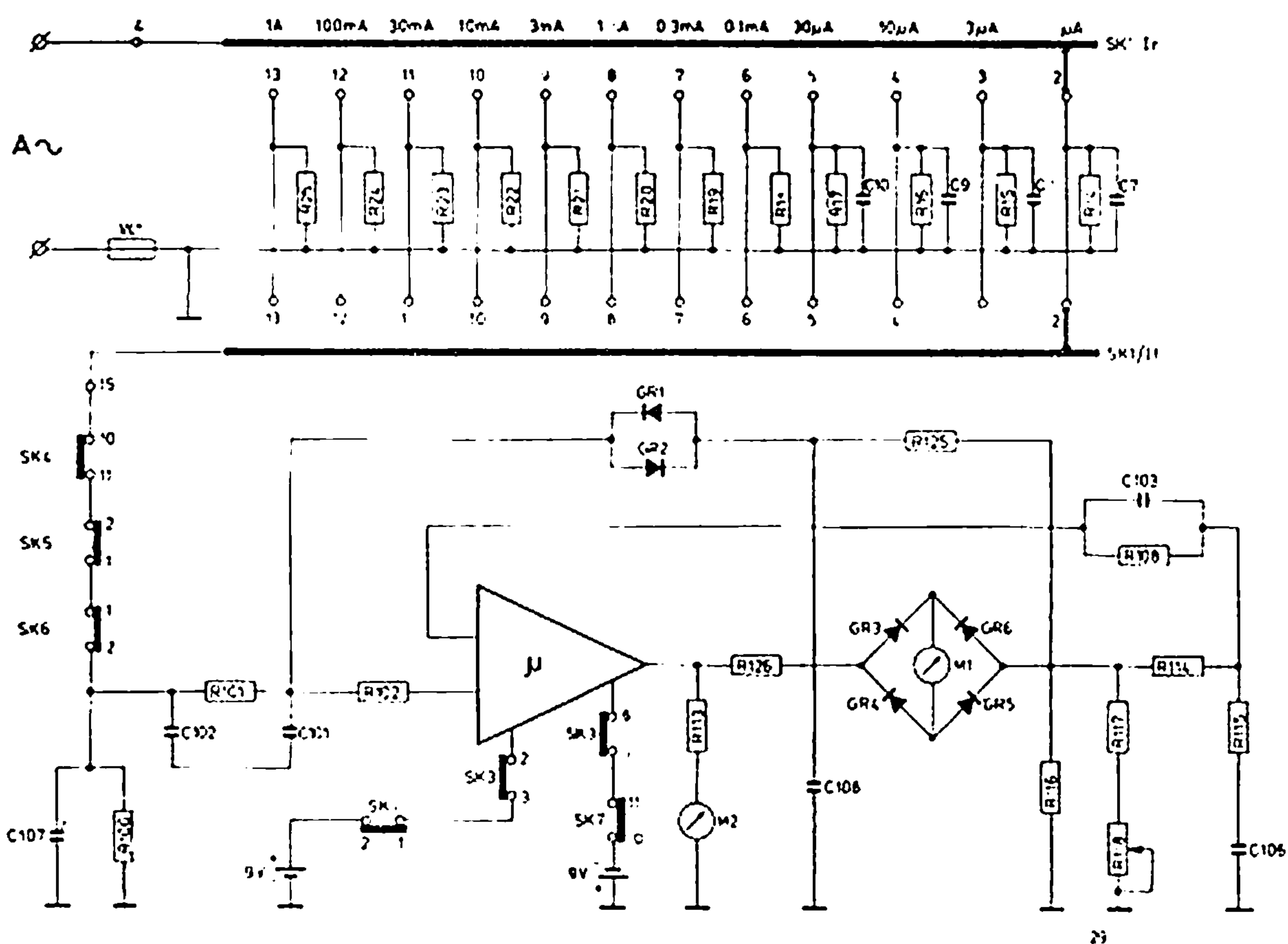


Fig./Abb. 5

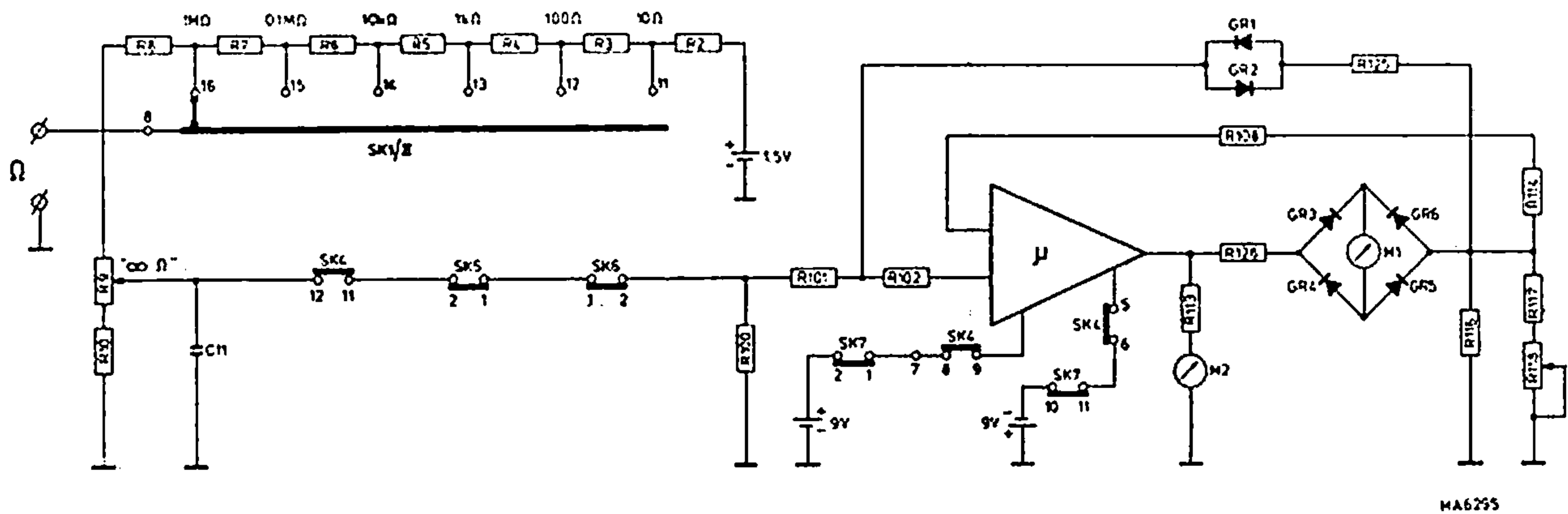


Fig. /Abb. 6

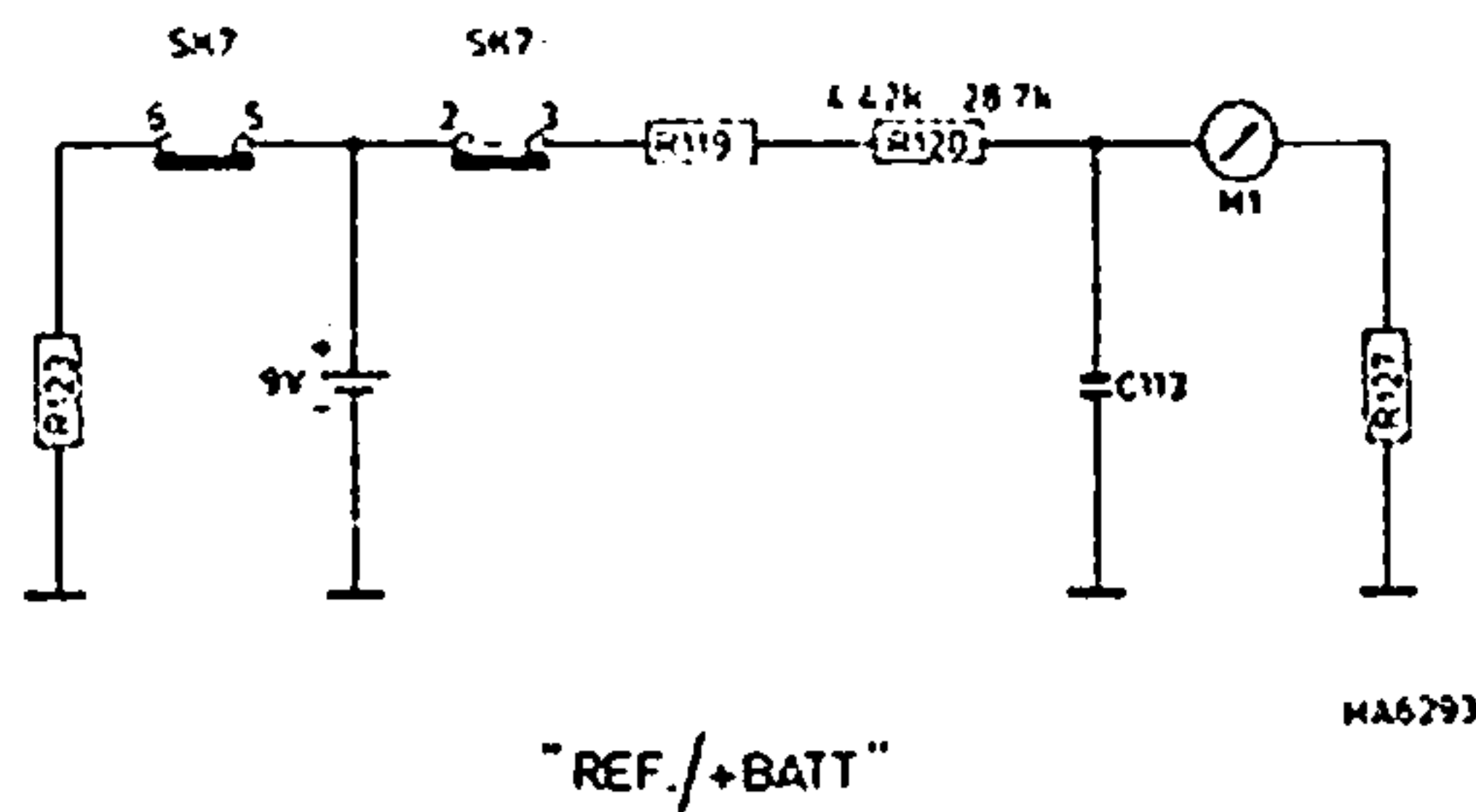


Fig. /Abb. 7

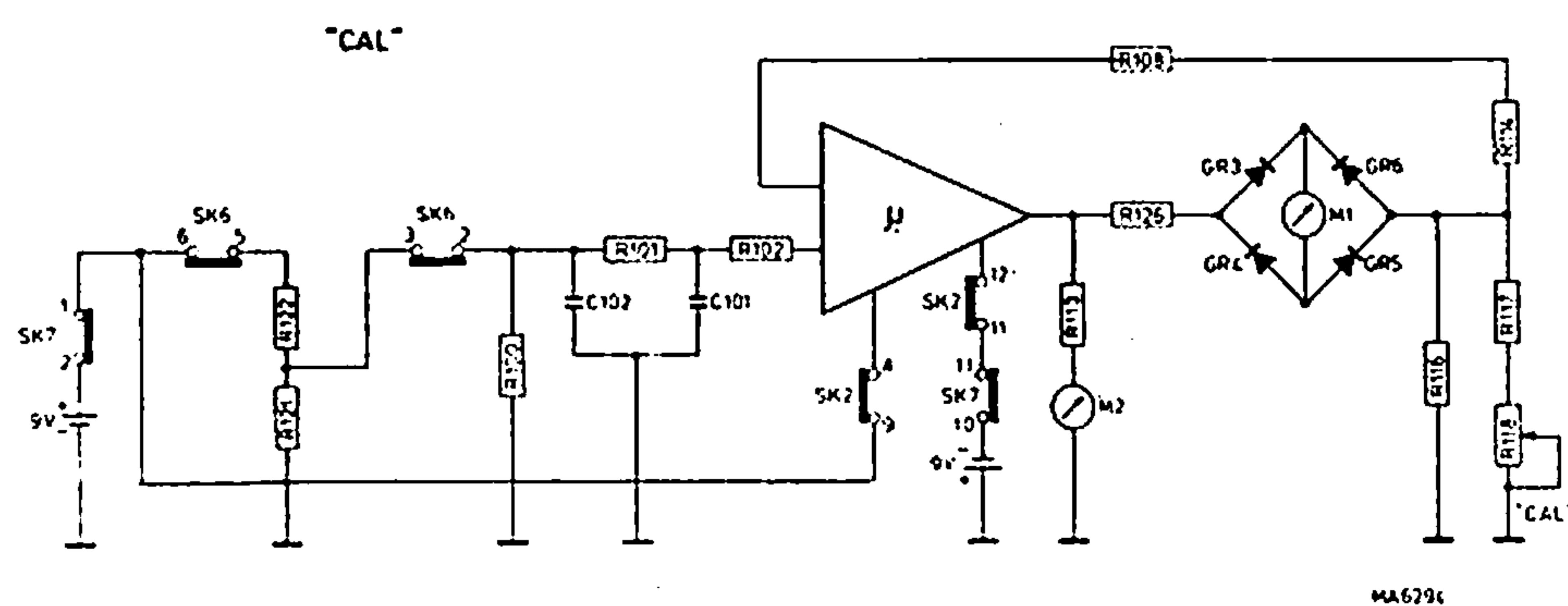
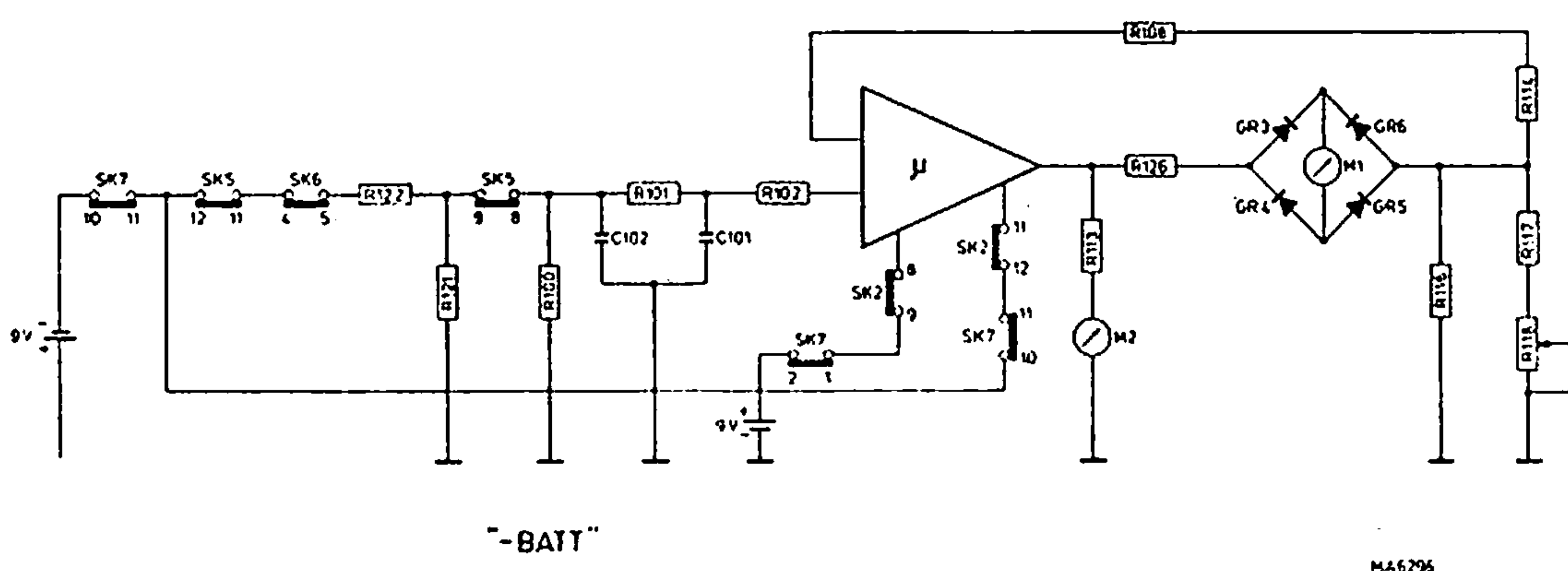
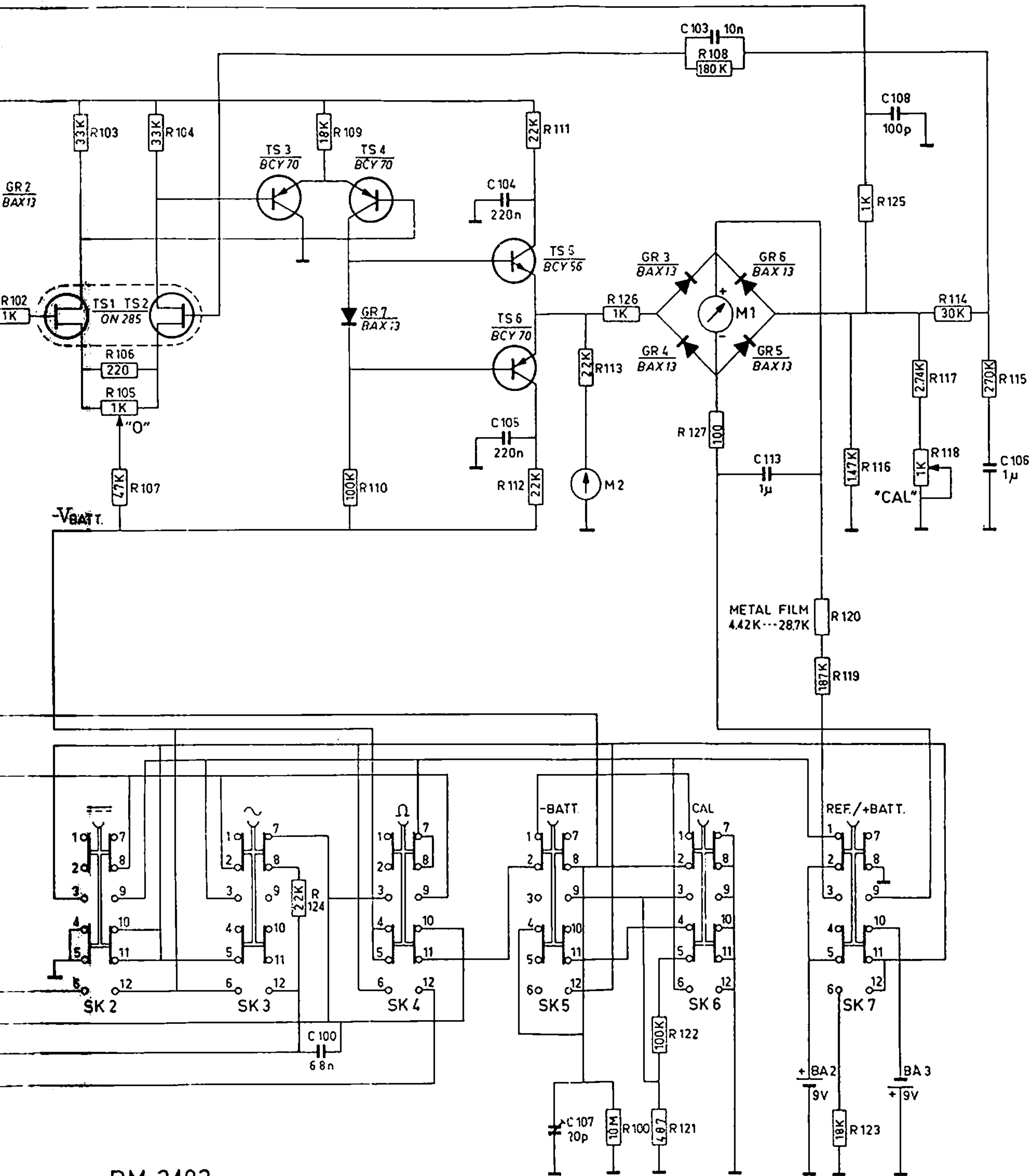


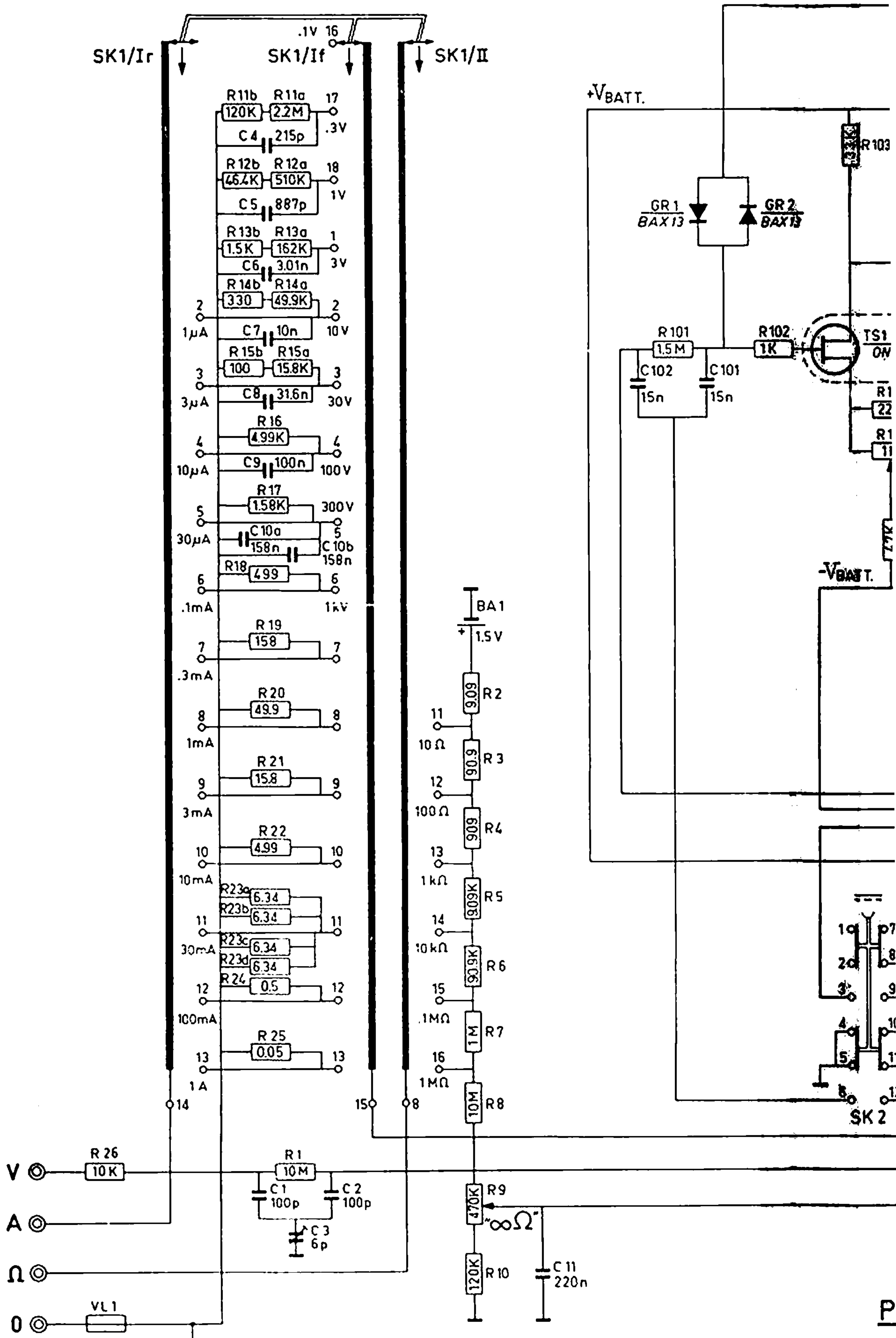
Fig. /Abb. 8





PM 2403

MA 5586A



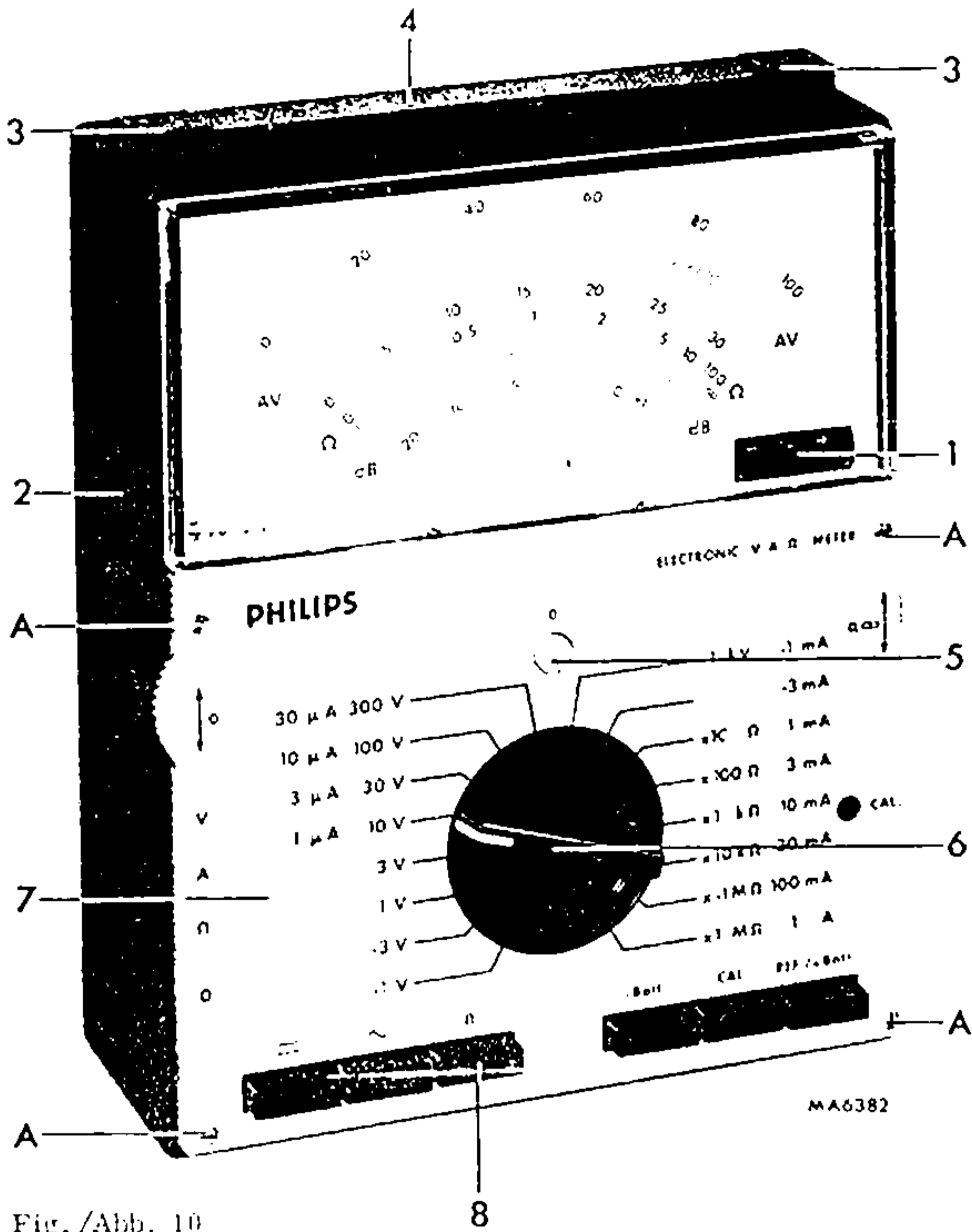


Fig. /Abb. 10

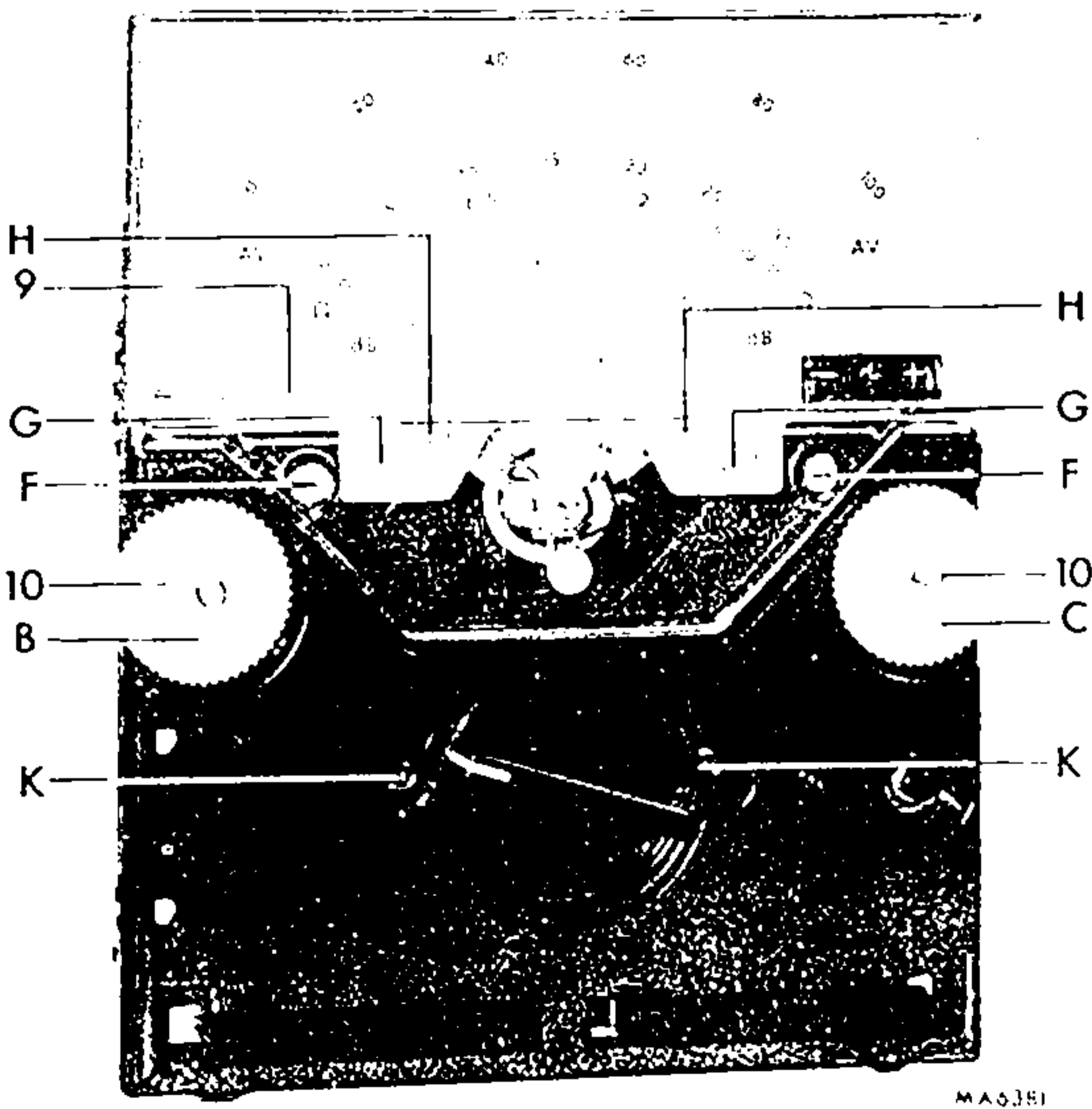


Fig. /Abb. 11

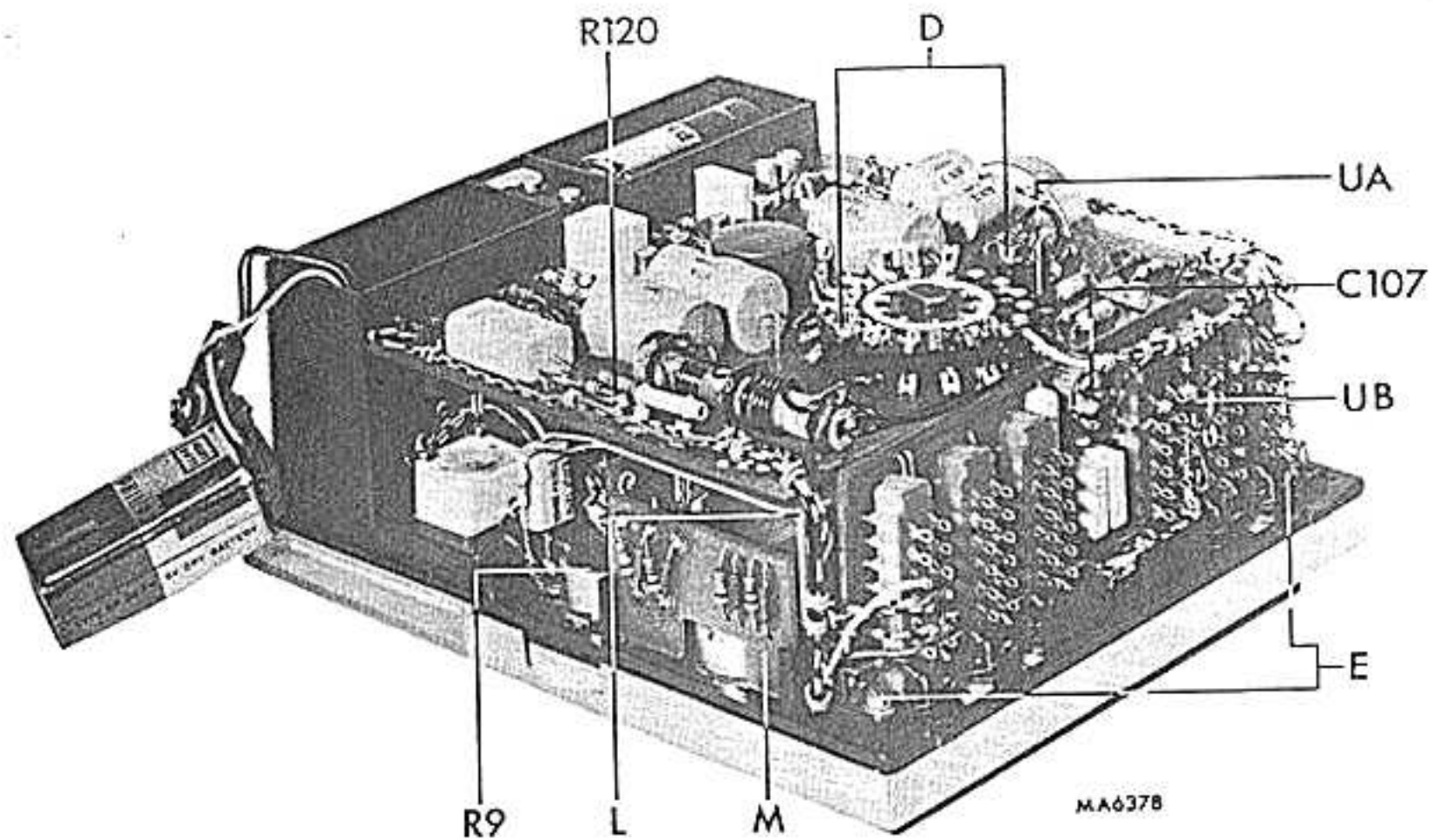


Fig./Abb. 12

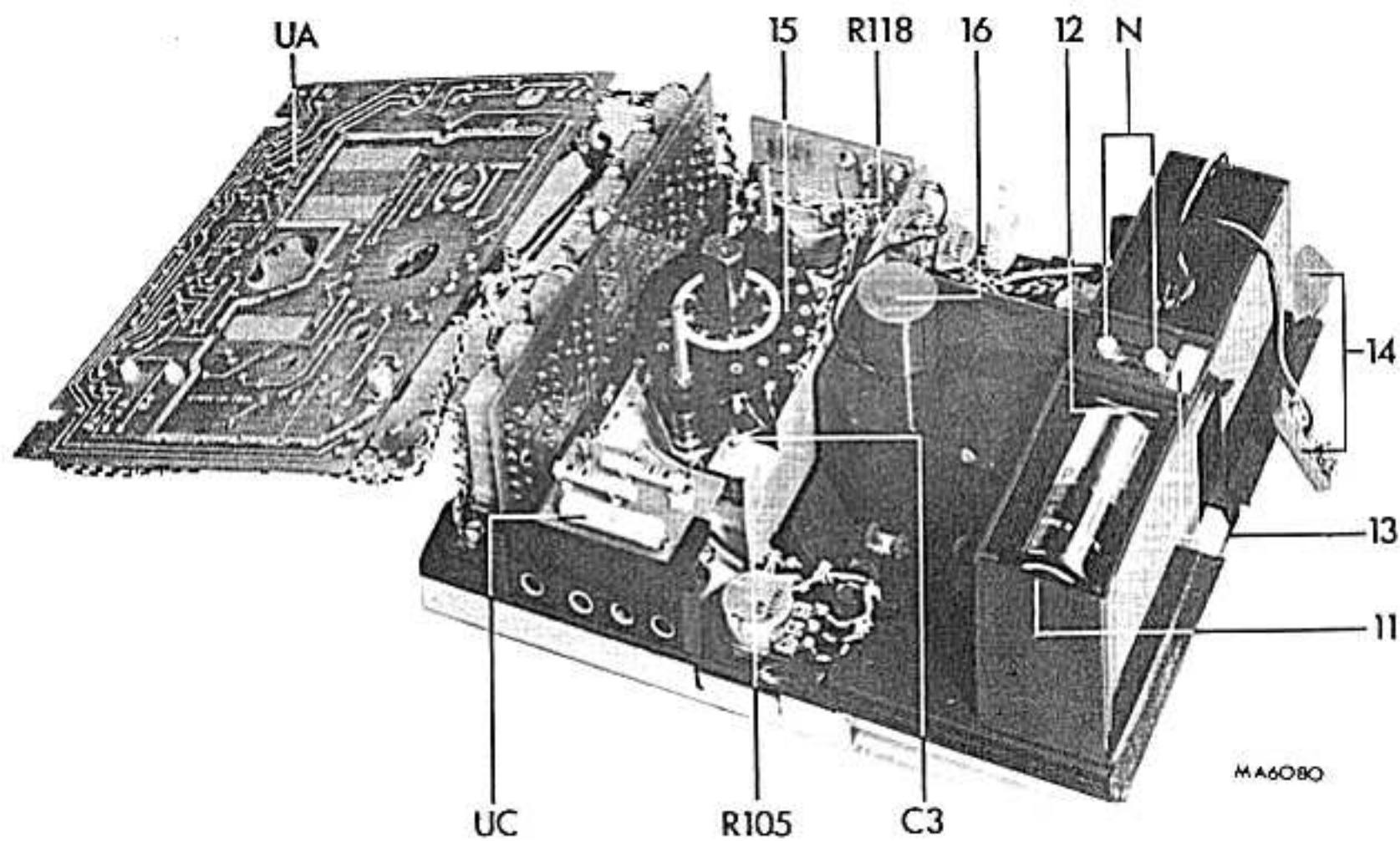


Fig./Abb. 13

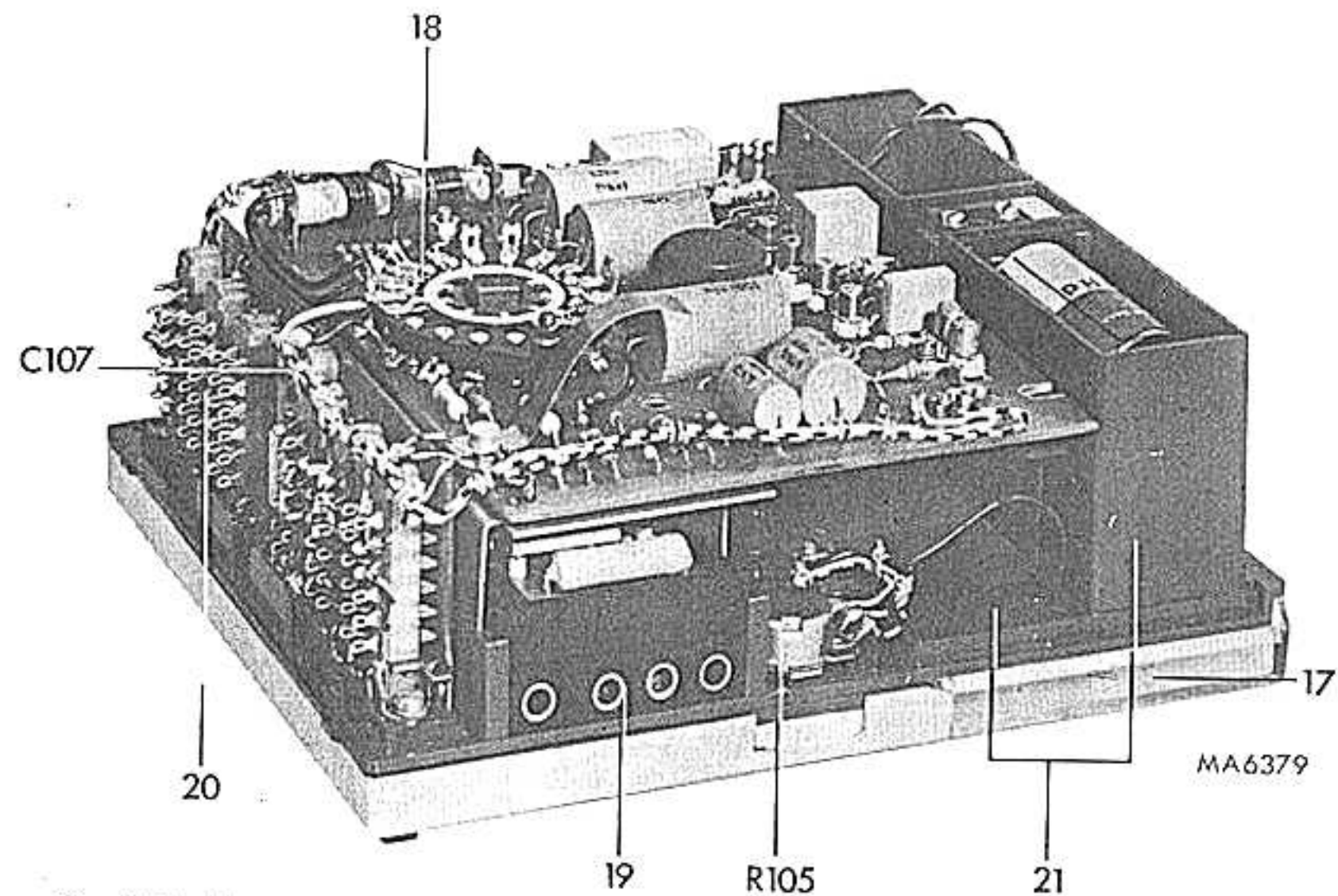


Fig./Abb. 14

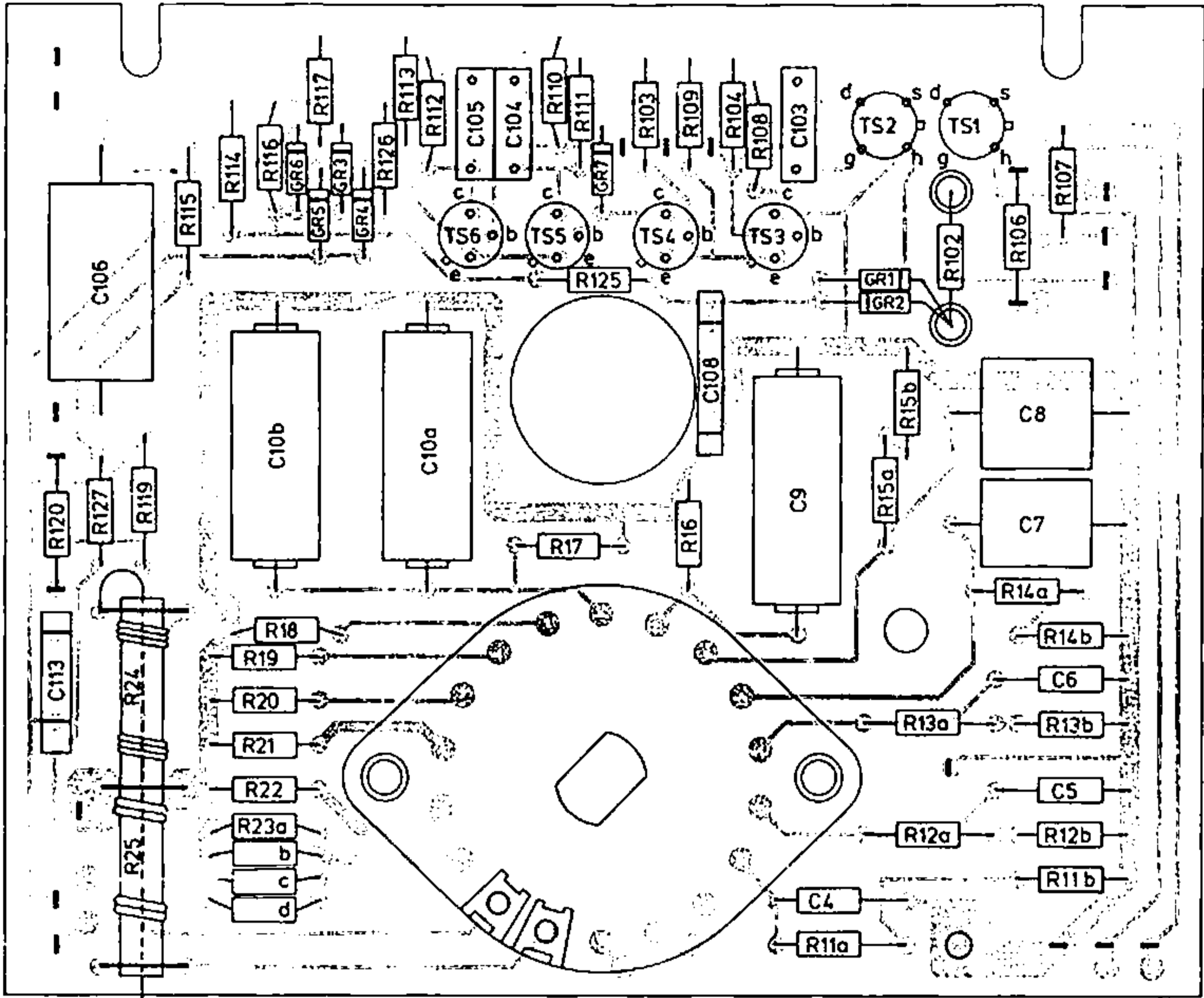


Fig. /Abb. 15

MA6302

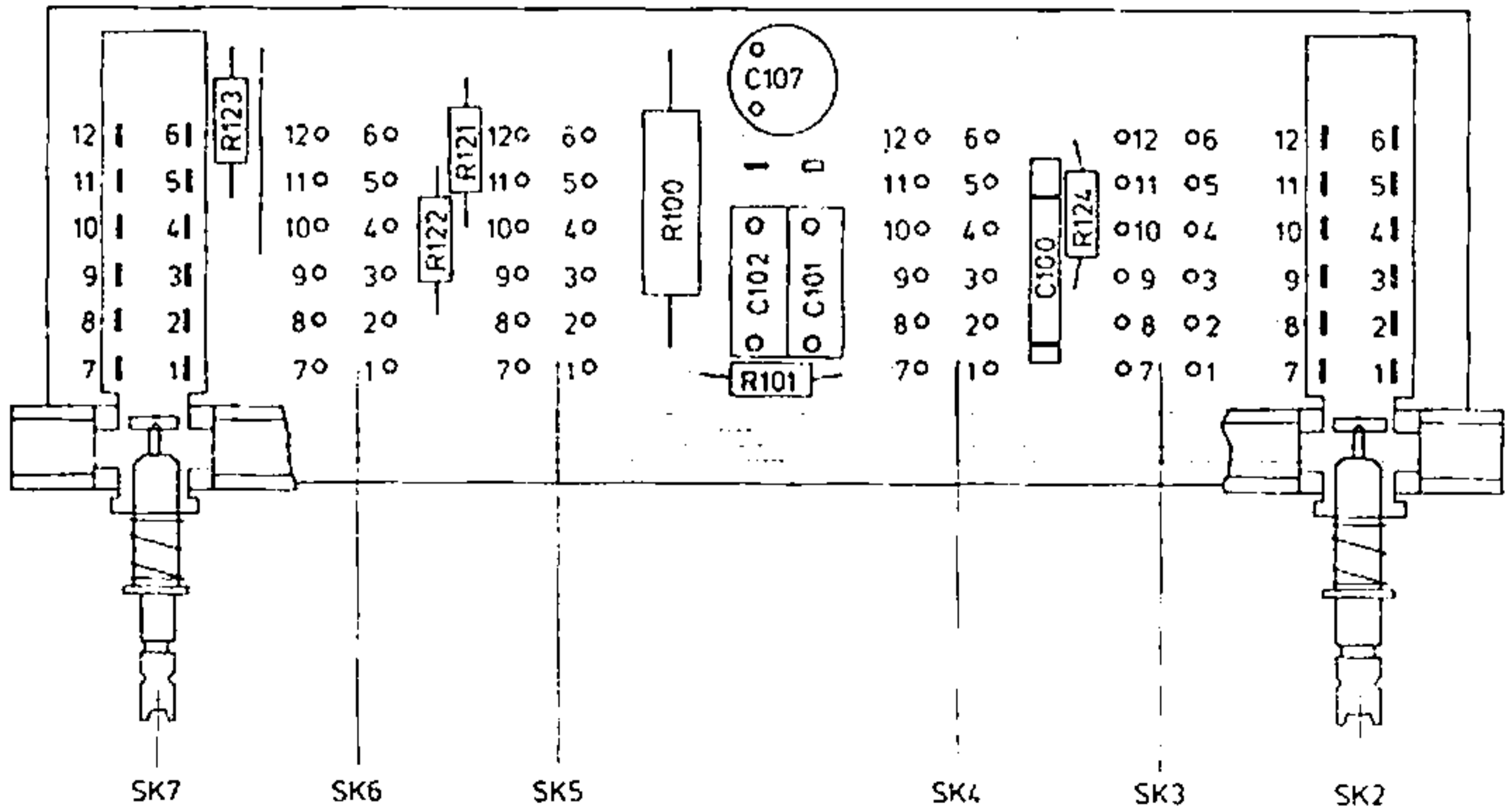


Fig. /Abb. 16

MA6301

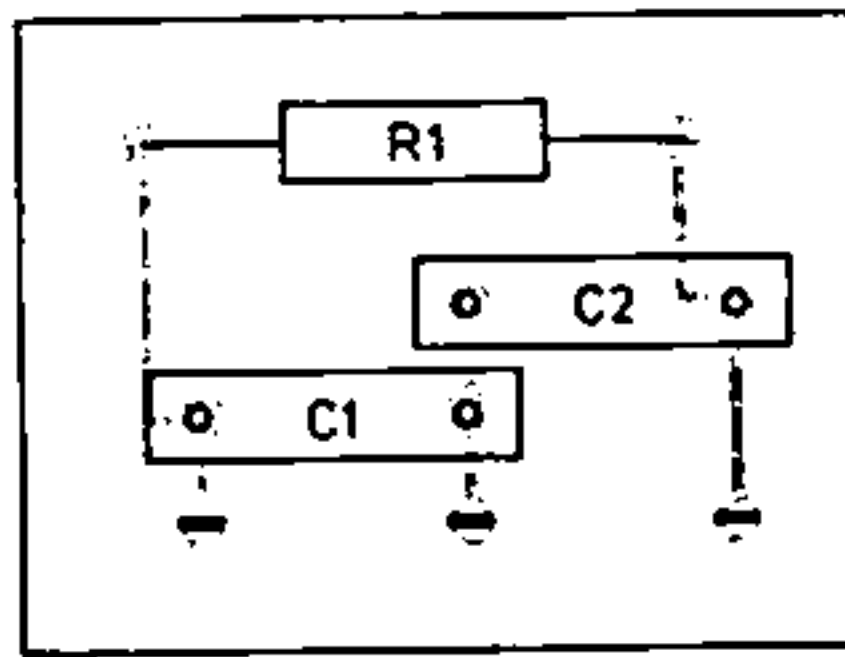


Fig. /Abb. 17

MA6303

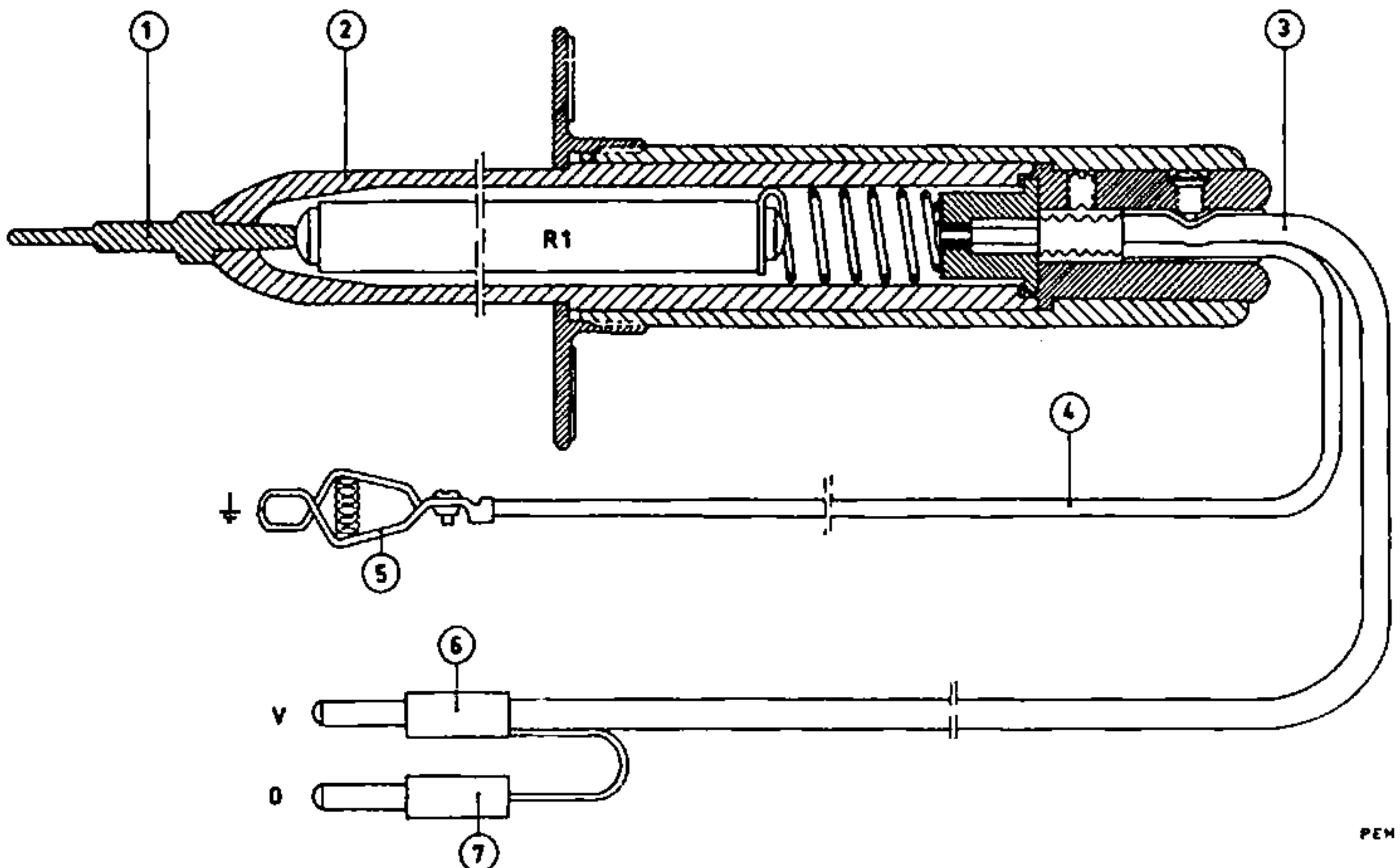
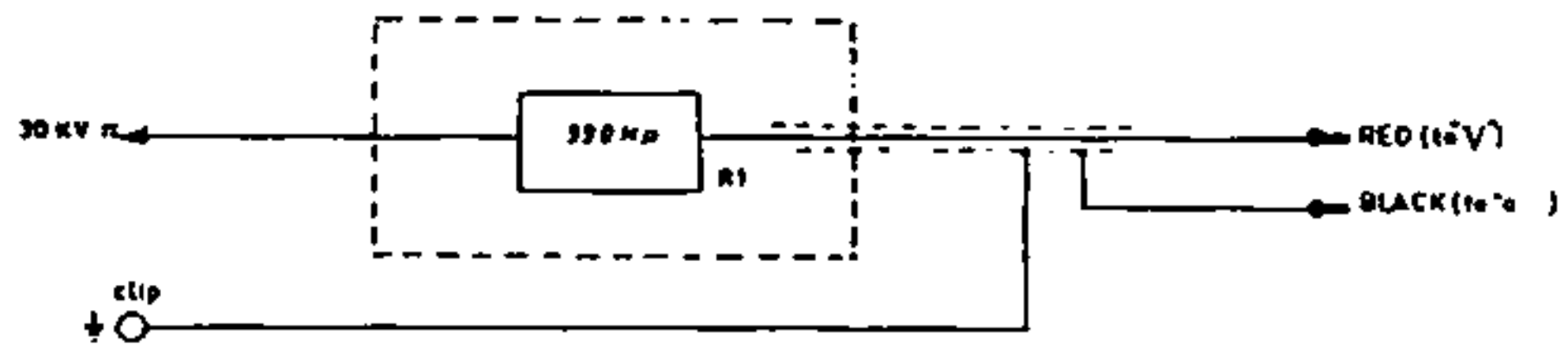


Fig. /Abb. 18