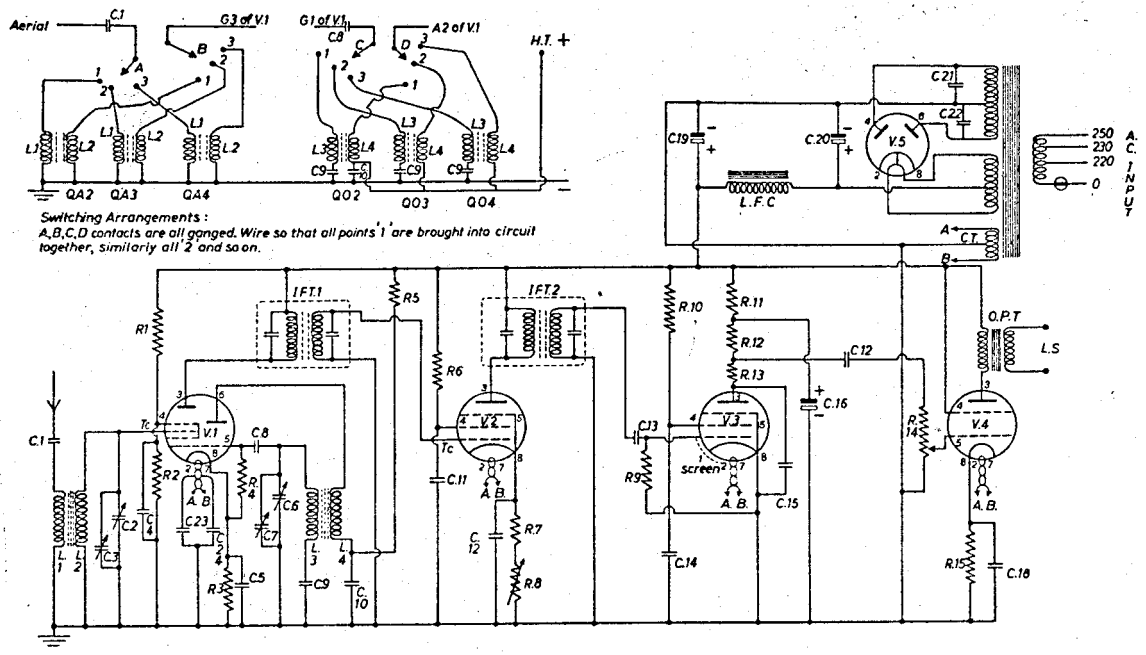

Fig. 27 **Five-Valve Superhet Receiver**

Components required:

CONDENSERS:

C.1. ·01 μF paper (350 V)
C.2. 500 pF variable (preferably ceramic insulation—2-gang with C.6.)
C.3. 25 pF variable (preferably ceramic insulation—2-gang with C.7.)
C.4. ·1 μF paper (350 V wkg.)
C.5. ·1 μF paper (350 V wkg.)
C.6. 500 pF variable (see C.2.)
C.7. 25 pF variable (see C.3.)
C.8. 100 pF silver mica
C.9. Padder: for QO2 = 4,500 pF; for QO3 = 4,500 pF; for QO4 = 2,500 pF
C.10. ·1 μF paper (350 V wkg.)
C.11. ·1 μF paper (350 V wkg.)
C.12. ·1 μF paper (350 V wkg.)
C.13. 100 pF silver mica
C.14. ·1 μF paper (350 V wkg.)
C.15. 200 pF silver mica
C.16. 8 μF electrolytic (350 V wkg.)
C.17. ·01 μF (350 V wkg.)
C.18. 25 μF (25 V wkg.)
C.19. 8 μF electrolytic (350 V)
C.20. 8 μF electrolytic (350 V)
C.21. ·1 μF (1,000 V)
C.22. ·1 μF (1,000 V)
C.23. 1,000 pF silver mica
C.24. 1,000 pF silver mica

RESISTORS:

R.1. 15 kΩ (1 W)
R.2. 27 kΩ (1 W)
R.3. 330 Ω (½ W)
R.4. 47 kΩ (½ W)
R.5. 47 kΩ (½ W)
R.6. 27 kΩ (½ W)
R.7. 330 Ω (½ W)
R.8. 10 kΩ variable
R.9. 1 MΩ (½ W)
R.10. ·5 MΩ (½ W)
R.11. 22 kΩ (½ W)
R.12. 100 kΩ (½ W)
R.13. 10 kΩ (½ W)
R.14. ·5 MΩ potentiometer
R.15. 270 Ω (½ W)

COILS:

L.1, L.2; QA2, QA3, QA4
L.3, L.4; QO2, QO3, QO4
} Osmor Radio Products

Mains transformer 250 V 60/80 mA for 5Z4 with 6·3 V 2A, 5 V 1A
Valves: 6K8, 6K7, 6J7, 6V6, 5Z4 ('G' types may be used)
5 octal valveholders, 3 octal top-cap connectors
2 IF transformers (465 kc/s, but see text)
On-off switch, chassis, knobs, LF choke 60 mA
Wavechange switch if 3 ranges used: 2 wafers each 2-pole 3-way, metal for screening.
Sockets: A/E, L/S, output transformer (for 6V6)
Slow-motion dial or dials, wire, flex