On application of the

Standard Telephone and Cables Co.
London, England

the type of vacuum tube defined by the ratings and characteristics given below has been registered under the tube type designation,

GP86
Triode Hexode
(For A.C. Receivers)

The design of this tube incorporates in a single envelope a hexode unit and a triode unit with the latter located at the bottom end of a common cathode.

Heater Voltage (AC) 6.3 volts.
" Current 0.8 amperes.

Direct Interelectrode Capacitances (Approx.)
Hexode Control Grid to Hexode Plate 0.04 mmfd.
Triode Grid to Hexode Plate 0.03 "
Triode Grid to Triode Plate 3.0 "
Hexode Control Grid to all other electrodes 6.5 "
Hexode Control Grid to Triode Grid 0.25 "
Hexode Plate to all other electrodes 20.0 "
Triode Plate to all other electrodes 8.0 "

Bulb - S.T.14.
Base - Medium Shell Octal 8-pin.

OPERATING CONDITIONS AND CHARACTERISTICS
(CONVERTER SERVICE)

Hexode Plate Voltage 250 volts (max.)
Hexode Screen Voltage 80 " (""
Hexode Control Grid Voltage -2 to -30 volts
Triode Plate Voltage 180 volts (max.)

Typical Operation:
Heater Voltage 6.3 volts
Hexode Plate Voltage 250 "
Hexode Screen Voltage 75 "
Hexode Control Grid Voltage -2.0 "
Triode Plate Voltage 100 "
Triode Grid Resistor 50,000 ohms.
Hexode Plate Resistance (approx.) 0.75 megohms.
Conversion Transconductance 650 microhms.

Hexode Control Grid Bias (approx.) for Conversion Transconductance = 2 microhms
Hexode Plate Current -30 volts.
1.5 mA.
1.4 mA.
2.2 mA.

Oscillator Grid Voltage Peak Swing 12 volts peak.

PIN CONNECTIONS

Basing Designation 8-D

Pin 1. N.C.  Pin 5. Triode & Injector Grids
Pin 2. Heater  Pin 6. Triode Plate
Pin 3. Hexode Plate  Pin 7. Heater
Pin 4. Screen  Pin 8. Cathode

CAP:
Hexode Control Grid