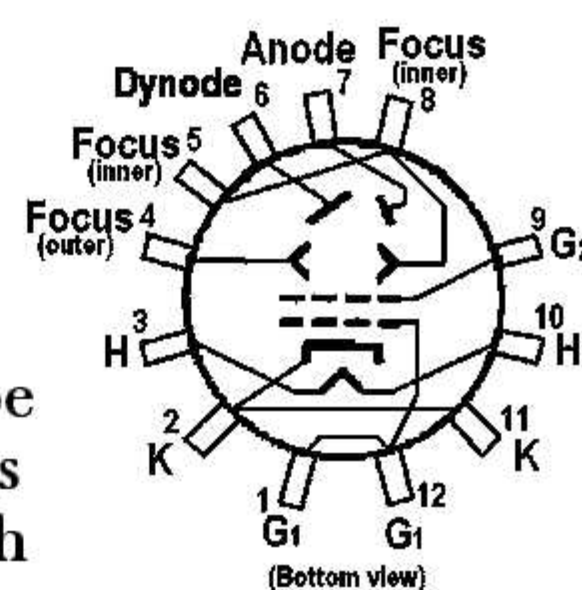




RCA-1630

U-H-F ORBITAL-BEAM HEXODE

The RCA-1630(A-5588) is a Acorn type orbital-beam hexode well suited for use as a detector or r-f amplifier in ultra high frequencies receivers. The RCA-1630 is 6.3-volt heater-cathode types, designed for use by engineers and experimenters particularly at the u-h-f RADAR.



CHARACTERISTICS

(NOTE: Typical operating conditions for Developmental Multiplier Tube)

Heater voltage	6.3	volts
Heater current	0.3	ampere
Plate (output anode) voltage	370	volts
Secondary-emitter voltage	240	volts
Outer focusing-electrode voltage	0	volts
Inner focusing-electrode voltage	300	volts
Grd No. 2 voltage	45	volts
Gnd No. 1 voltage	-1	volt
Plate current	12	milliamperes
Secondary-emitter current	9.5	milliamperes
Cathode current	3.5	milliamperes
Grid N o. 1-plate transconductance	15, 000	micromhos
Input capacitance	6.5	μ f
Output capacitance	3.5	μ f
Figure of merit	3100	micromhos per μ f

INSTALLATION AND APPLICATION

For INSTALLATION, reference to type 955; for APPLICATION, refer to VT-128.

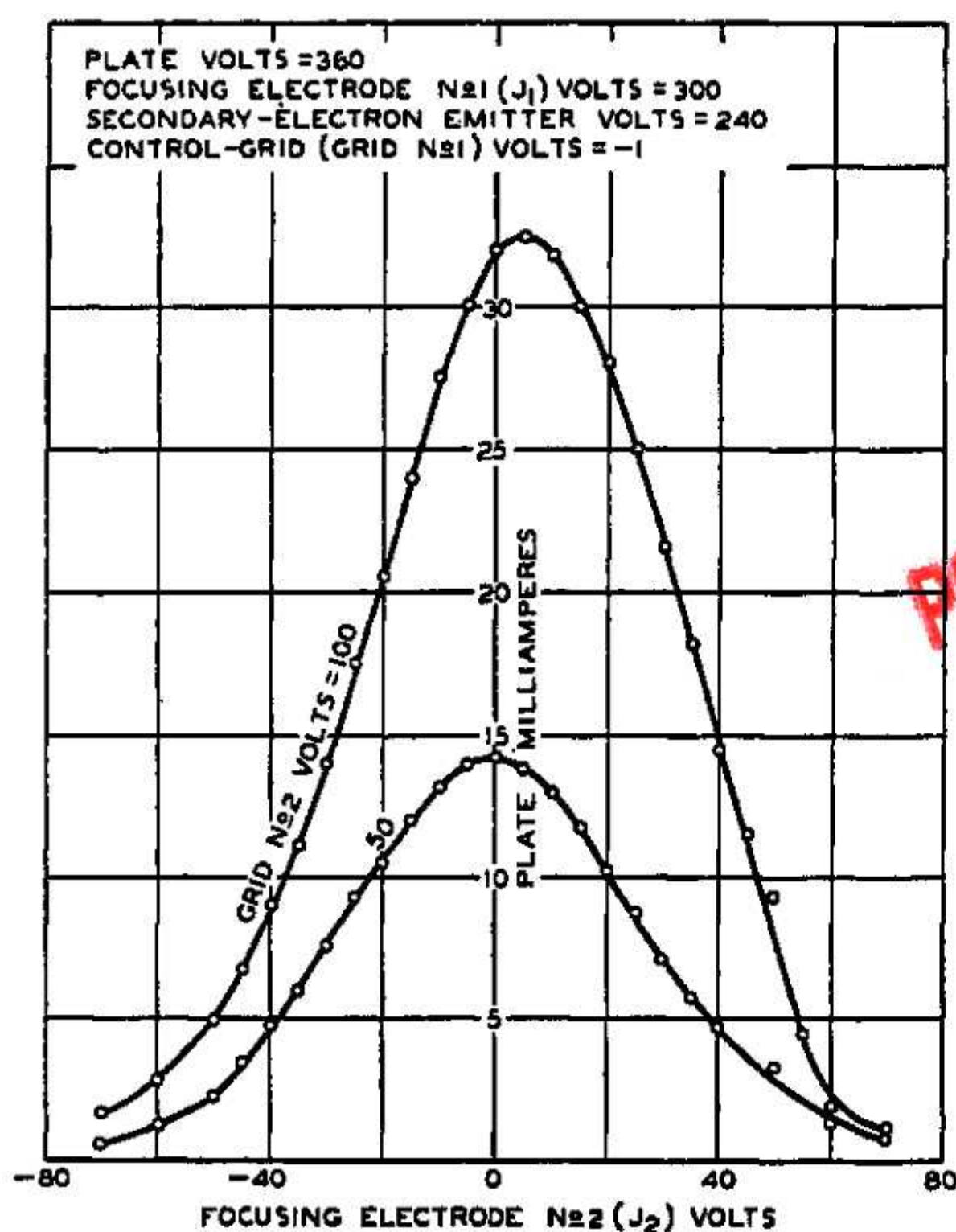


Fig. 3—Volume-control characteristic provided by deflection of the electron beam.

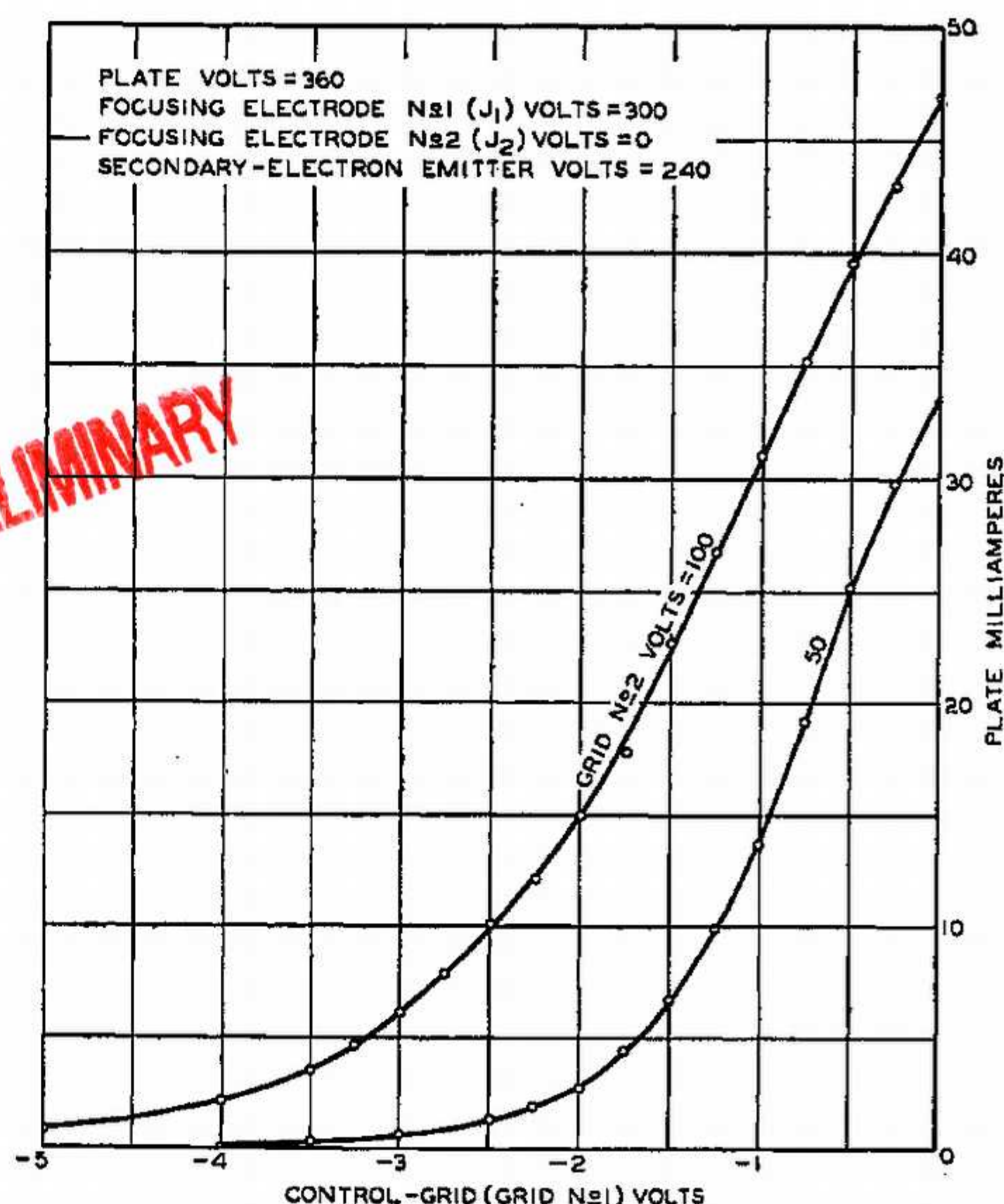


Fig. 4—Transfer characteristics of orbital-beam multiplier.

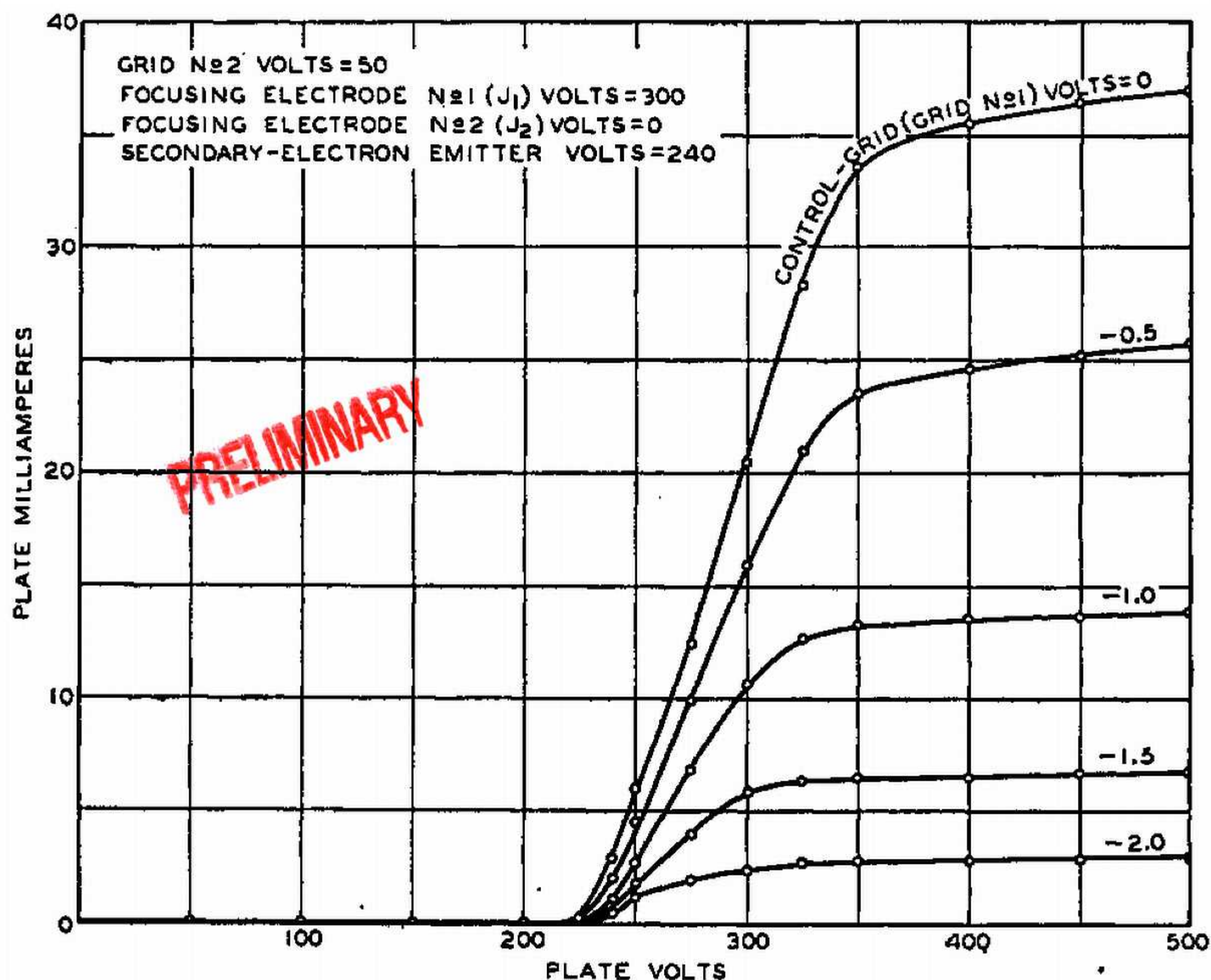


Fig. 5—Plate characteristics of orbital-beam multiplier.

- Source: 1) "The Orbital-Beam Secondary-Electron Multiplier for Ultra-High-Frequency Amplification" Wagner, H.M.; Ferris, W.R.; (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1694186)
 Proceeding of Institute of Radio Engineers, Volume: 29, Issue: 11 (1941), Page(s): 598-602
 2) "1630 /VT128 orbital-beam hexode" Virtual Valve Museum, (<http://www.tubecollector.org/1630.htm>)
 3) "VT-128" Radio Museum, (http://www.radiomuseum.org/tubes/tube_vt128.html)
 4) "真空管[エーコン管]物語" JAZOP, JA1KGW/青山素太郎さんのhp 真空管類末記
 (<http://homepage2.nifty.com/kawoyama/tubestoryacorn.html>)