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ACORN PENTODE

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Heater	Vf	=	6.3 V
	If	=	0.15 A

Capacities			
Cagl	<	0.007	uuF
Cgl	=	3.0	uuF
Ca	=	3.4	uuF
Cglf	=	0.18	uuF

Operating Conditions (k connected to g3)

Va	90	250	V
Vg2	90	100	V
Ia	1.2	2	mA
Vgl	-3	-3	V
Ig2 (Ia = 1.2 mA)	0.5	-	mA
Ig2 (Ia = 2 mA)	-	0.7	mA
S (Ia = 1.2 mA)	1.1	-	mA/V
S (Ia = 2 mA)	-	1.4	mA/V
g	1,100	2,100	
Ri (Ia = 1.2 mA)	1	-	megohm
Ri (Ia = 2 mA)	-	1.5	megohm
g (g1g2)	25	28	

Limiting Values

Va max	250	V
Wa max	0.8	W
Ik max	5	mA
Vgl max (Igl=+0.3 µA)	-1.3	V
Vg2 max	100	V
Wg2 max	0.15	W
Rgl max	3	megohms
Vfk max	50	V
Rfk max	20,000	ohms

→ Damping

λ (m)	Zi (ohms)		Za (ohms)
5	45,000	<	200,000
7	100,000		300,000

→ Operating Conditions as L.F. Amplifier
(Using resistance coupling and k connected to g3)

Ra Megohms	Va V	Rg2 Megohms	Rk Ohms	Ia mA	Ig2 mA	Vo / Vi	Vo Veff	D %
0.3	250	0.8	4000	0.5	0.20	165	14	1.5
0.2	250	0.5	2500	0.79	0.32	150	14	1.0
0.1	250	0.32	1250	1.3	0.51	100	14	1.3

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→ Operating Conditions as Grid Detector
(Using resistance coupling with k connected to g3)

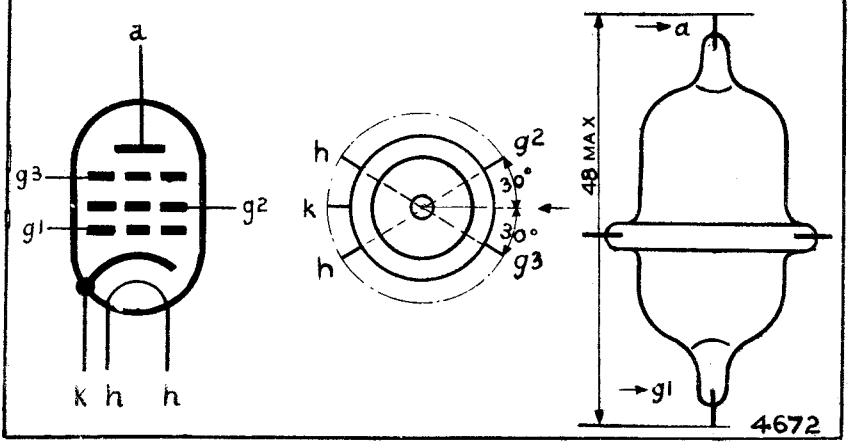
Ra Megohms	Va V	Rg2 Megohms	Ia mA	Ig2 mA	$\frac{Vo}{Vi}$
0.3	250	0.8	0.6	0.25	20
0.2	250	0.5	0.9	0.4	20
0.1	250	0.1	2.7	1.5	16.5

These values of Ia and Ig2 were measured with no signal.

→ Operating Conditions as Anode Bend Detector
(With k connected to g3)

Va	250	V
Ia	0.2	mA
Vg2	60	V
Ig2	0.06	mA
Ra	0.3	megohm
Rk	5000	ohms
Amplification $\frac{Vo}{Vi}$ (Vo = 2 V, m = 30%)	9	

Arrangement of electrodes and base connections.



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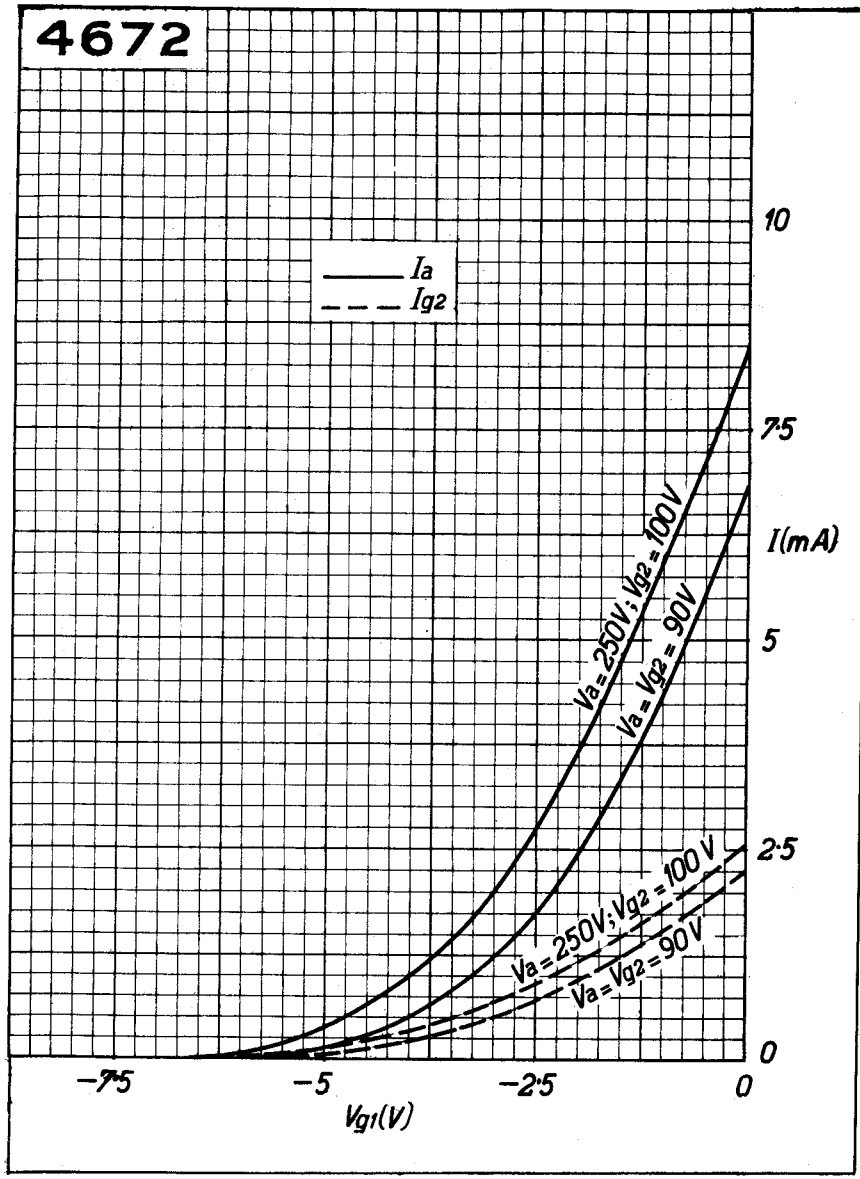

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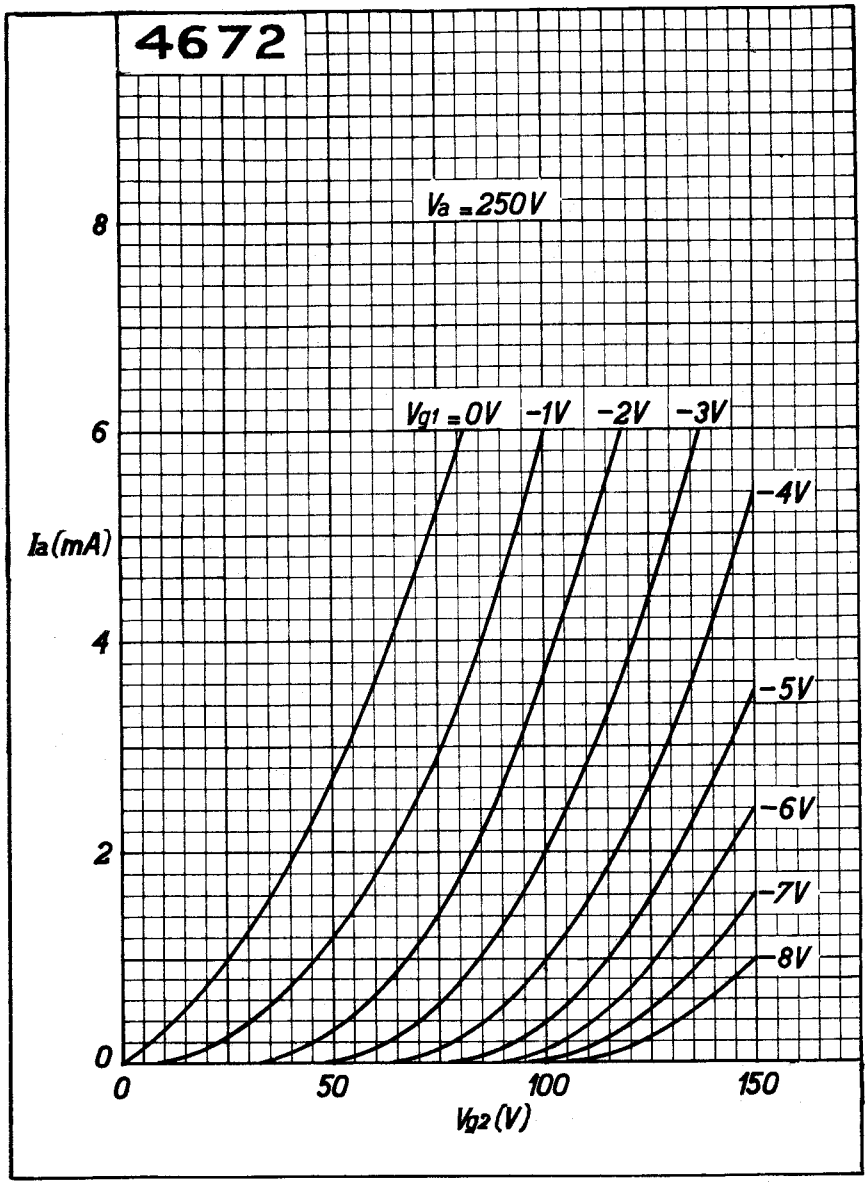

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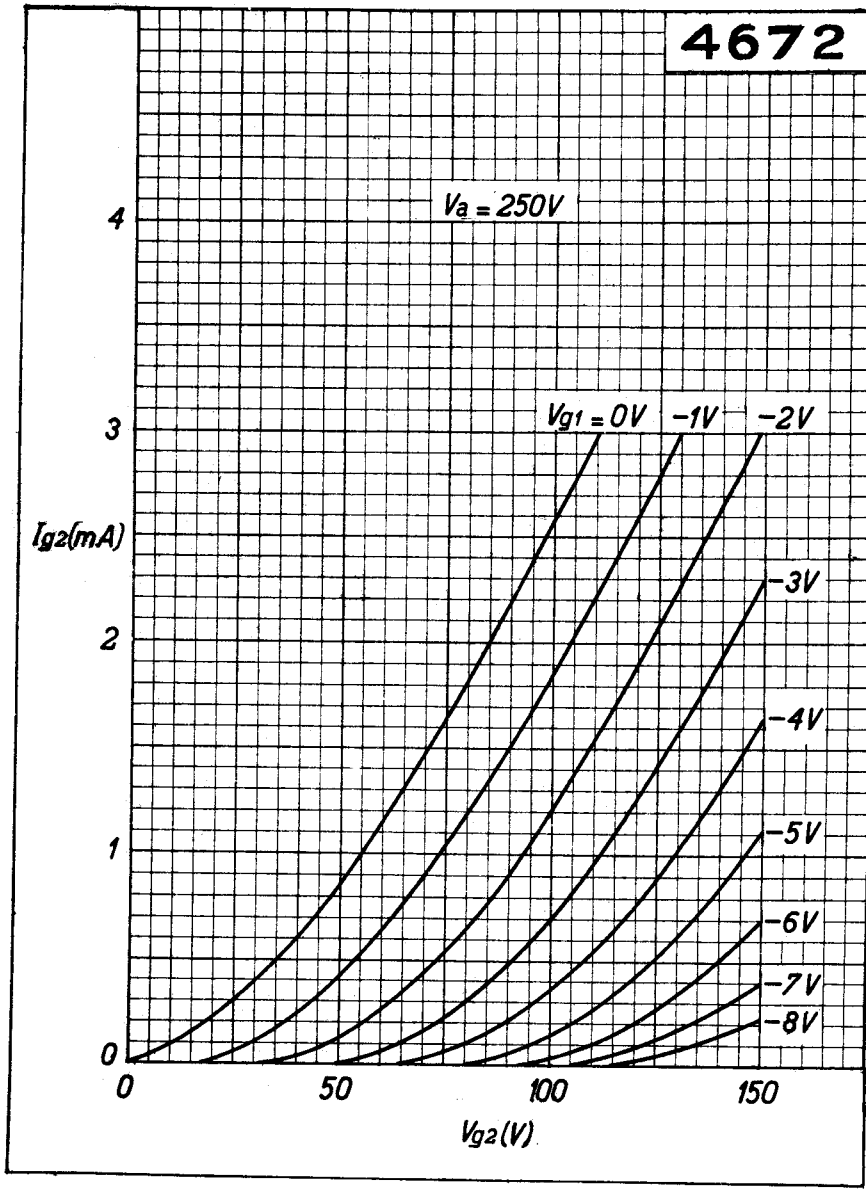

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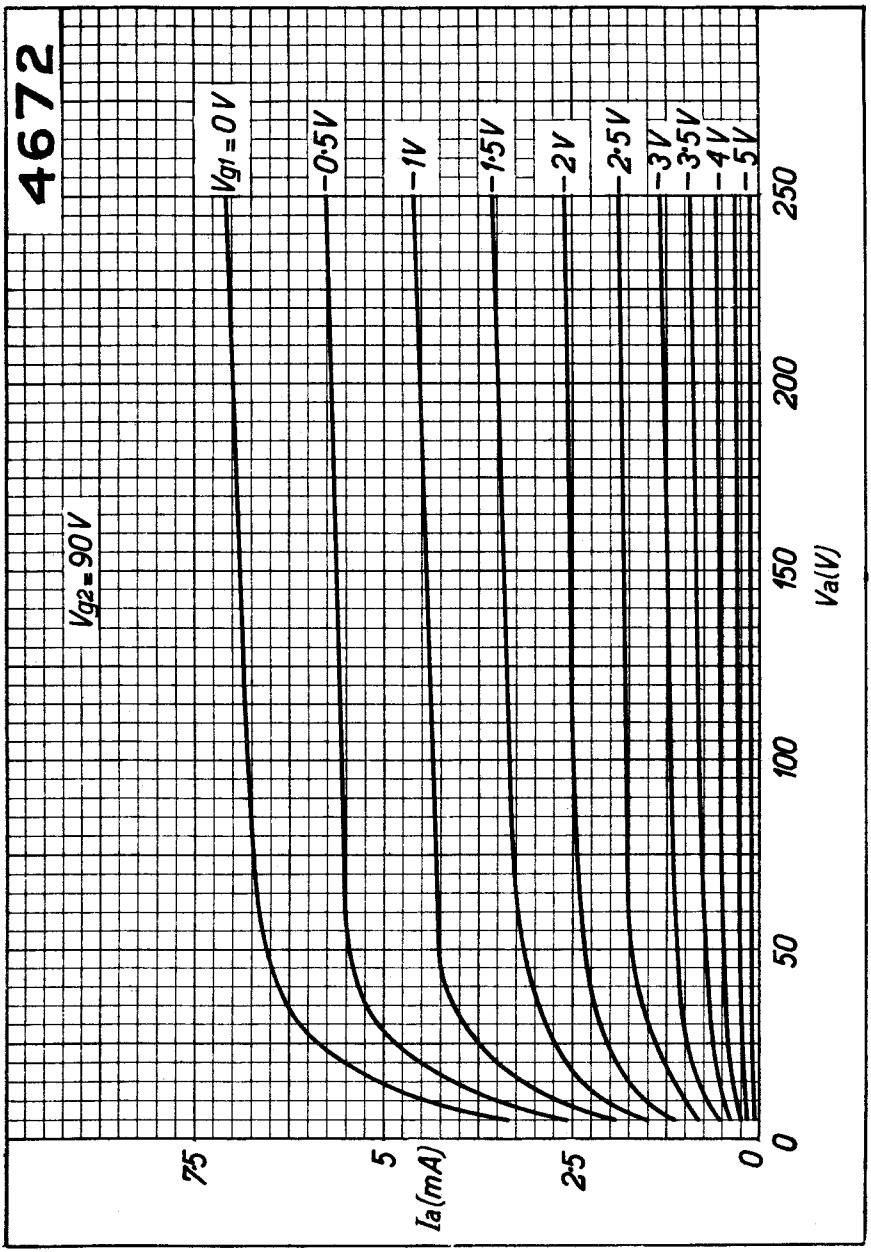

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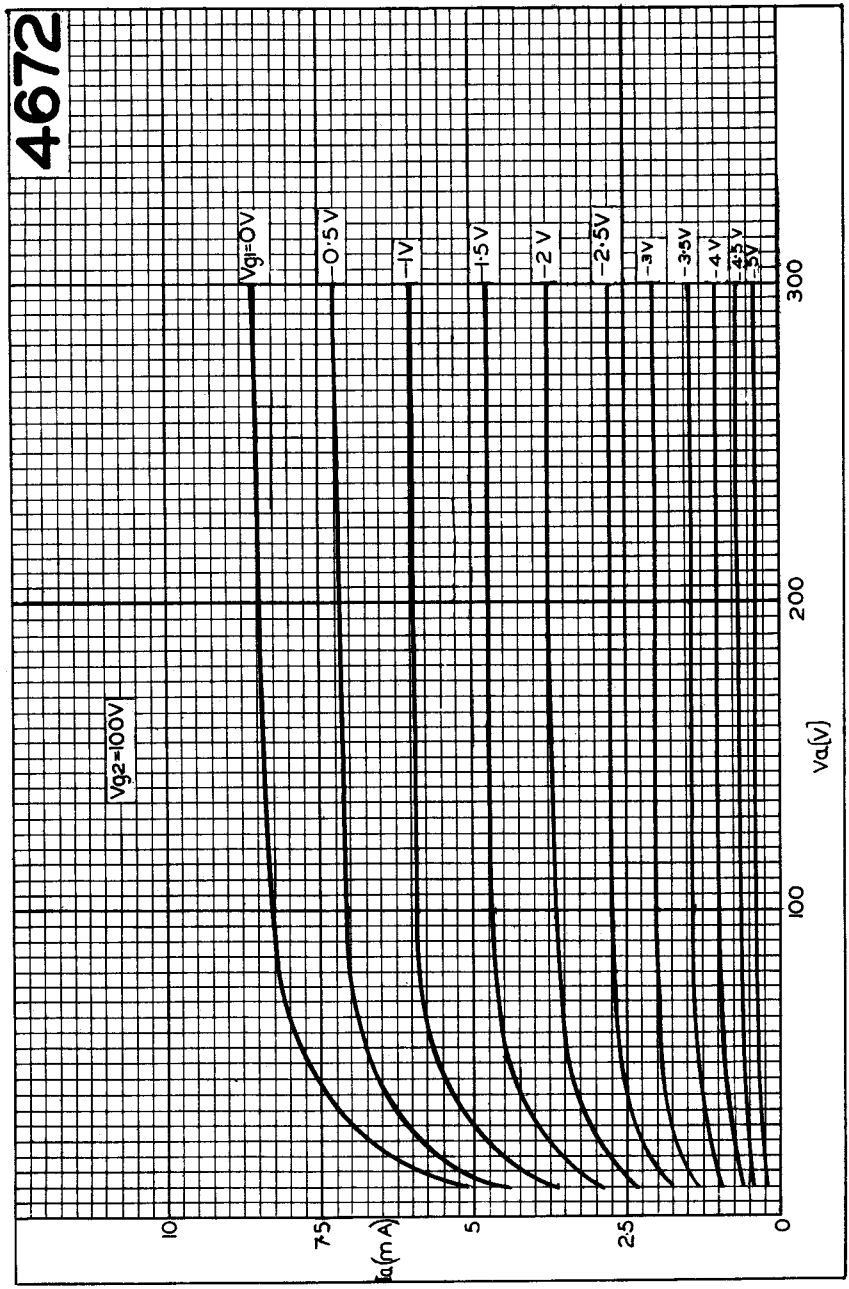

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