

1	CATHODE RAY TUBE CIRCUITS	5.37	....Device has particular grid structure
3	.Combined cathode ray tube and circuit element structure	5.38	....With particular collector or anode structure
3.5	..Traveling wave tube with delay-type transmission line	5.39	....Plural hollow devices
3.6	...Line with plural characteristics or plural lines	5.41	.....Accelerating or decelerating the ray between the hollow devices
4	..Inductor or distributed parameter-type inductive structure	5.42	.....Devices excited to accelerate the ray across their gaps; e.g., synchrotrons
5	...Ray passes in or through a hollow distributed parameter device	5.43	.....Devices of different resonance frequency
5.11	....With a secondary emission stage	5.44	.....Feedback connection between the hollow devices
5.12	.....Secondary emission passes through or in the hollow device	5.45	.....Three hollow devices
5.13	....With a magnetron	5.46	.....Device tunable
5.14	....Plural rays pass through or in the hollow device	5.47	.....Gang tuned hollow devices
5.15	.....Rays merged at the hollow device	5.48	.....Device has a flexible wall
5.16	.....Plural hollow devices	5.49	.....Three hollow devices
5.17	.....Feedback by ray	5.51	...Plural gaps in the hollow device
5.18	...Ray returns to the hollow device; e.g., reflex type	5.52	...Device has a re-entrant portion surrounding the ray
5.19	.....By same path and/or to same aperture	5.53	...Device tunable
5.21	.....Device tunable	5.54	.....Device has a flexible wall
5.22	.....Device has a flexible wall	7	...Connected to the deflecting electrodes
5.23	.....Thermally controlled	8	.Compensating for stray deflecting fields
5.24	...Deflecting or reflecting the ray	8.51	.Pulse storing
5.25	....Ray sweeps over an aperture or slot in the hollow device	8.61	..Plural cathode-ray tubes or ray-type tubes
5.26	....Device deflects the ray	9	.Plural cathode-ray tubes in the circuit
5.27	.....Plural hollow devices	10	.With radiant energy sensitive control means
5.28	....Plural hollow devices	11	..With secondary emission stage in the cathode-ray tube
5.29	...Ray has appreciable transverse electrical dimension and/or significant shape	11.5	...Color convergence controlled by photodetector
5.31	....Hollow ray	12.1	.With secondary emission stage in the cathode-ray tube
5.32	....Disk-shaped ray	13.1	.Plural ray-type tube
5.33	....Device also a ray anode or cathode	13.11	..Storage tubes
5.34	....Focusing and/or concentrating the ray	14	.Plural concentrating, accelerating, and/or de-accelerating stages
5.35	.....By magnetic field	15	..Three or more stages
5.36	....Device removable from its grids	16	...Intermediate stage at lower potential

17	..With ray-deflecting stage interposed between plural concentrating or accelerating and/or de-accelerating stage or co-extensive with one such stage	376	...With post deflection phosphor selection
364	.Cathode-ray deflections circuits	377	..With marker
365	..Symbol generator	378	..Circular, spiral, or radial sweeps
366	..For flat cathode-ray tube	379	..With additional control of cathode ray
368.11	..Including color convergence control	380	...Control only at turn-on or turnoff of circuit
368.12	...Including specified signal storage (e.g., memory, register, etc.)	381	...Circuits control grid-cathode circuit of tube
368.13	....Interpolation	382	...With focusing of ray
368.15	...Including electrostatic element (e.g., electrode, lens, etc.)	382.1	....For television
368.16	....Offset apertures in plural sequential electrodes	383	...Intensity control of ray
368.17	...Including signal delay circuitry	384	....Ray blanking
368.18	...Including specified waveform generating circuitry	385	....Ray unblanking
368.19	....By nonlinear device (e.g., square law device, diode, etc.)	386	...With ray control responsive to deflection circuit
368.21	....Parabolic waveform	387	..Including feedback circuit
368.22	....By integrating of signal	388	...Plural feedback circuits
368.23	....By multiplying of signal	389	...Negative feedback
368.24	...Static convergence feature	390	....Tube-type circuit
368.25	...Including core or winding structure	391	..Plural deflection circuits
368.26	....Adjacent to or integral with deflection winding or housing structure therefor	392	...Plural waveform display circuits
368.27	...Including particular magnetic field distribution	393	...Interconnected sweep circuits
368.28	...Including plural cores or coils	394	...Plural deflections in one plane
367	..Including a digital-to-analog device	395	..Plural potentials or currents applied to deflection member
369	..Target controls deflection circuit	396	...Push-pull deflection circuit
370	..With ray deflection distortion correction or reduction	397	....Coil-type circuit
371	...By modulation of deflection waveform	398	...With cathode-ray centering
372	..For cathode-ray tube having plural targets	399	..Deflection coil circuit
373	...Targets radially about cathode	400	...Including a saturable element
374	...Targets in single plane	401	...Including a temperature responsive element
375	..For plural phosphor target tube	402	...Including a voltage dependent resistor
		403	...Including an amplifier
		404	....Tube-type amplifier
		405	....With transformer connecting amplifier to coil
		406	.....With power recovery circuit
		407	....With diode or amplifier across coil
		408	...Including solid-state switch
		409	..Including a discharge device
		410	...With device discharging a condenser
		30	.Ray modulation
		411	.Power supply from deflection circuit source

500	HIGH ENERGY PARTICLE ACCELERATOR TUBE	40	.Electrode formed as inductive impedance
501	.Magnetic field acceleration means	41	.Inductive impedance connected between electrodes of a discharge device load
502	..Cyclotron		
503	..Synchrotron	42	..Connected to plural anodes or plural cathodes
504	..Betatron		
505	..Linear accelerator (Linac)	43	..Connected to control electrode
506	.Electrostatic accelerator means	44	...With capacitive impedance connected to the control electrode
507	.With injection or extraction means		
32	COMBINED LOAD DEVICE OR LOAD DEVICE TEMPERATURE MODIFYING MEANS AND ELECTRICAL CIRCUIT DEVICE STRUCTURE	45	..With diverse-type impedance
		46	.Filament, electric heater, or resistance in shunt with the discharge electrodes of a discharge device load
33	.Portable self-contained		
34	.With antenna	47	..Automatic switch in the shunt circuit
35	.Plural discharge device loads		
36	..Series connected discharge devices	48	..Cathode or cathode heater in the shunt circuit
37	..Cathode-anode circuit connected to the discharge control electrode of another discharge device load (e.g., cascade)	49	.Filament or electric heater in series with a discharge device load
38	..Corresponding electrodes connected by a circuit impedance (e.g., push-pull)	50	.Load device temperature-modifying means combined with or forming circuit impedance means
39	.Discharge device load with distributed parameter-type transmission line (e.g., waveguide, coaxial cable)	51	.Plural circuit elements
		52	..Plural impedance elements
		53	...Diverse types of impedances
		54	...Plural inductive impedances
39.3	..Traveling wave type with delay-type transmission line	55	.Electric generator or piezoelectric device
39.51	.Distributed parameter resonator-type magnetron	56	.Discharge device load
		57	..Discharge device and transformer
39.53	..With output-coupling means		
39.55	..Variable tuning	58	..Discharge device and circuit impedance
39.57	...Electron emission type		
39.59	...Thermal or magnetic actuator	59	...Impedance connected between two electrodes
39.61	...Movable tuning element (e.g., slug)	60	...Impedance connected to an auxiliary starting electrode
39.63	..With control electrode, secondary emitter, or auxiliary anode or cathode	61	...Discharge control discharge device
39.65	..Having diverse size resonators	62	...Inductive impedance
39.67	..Tubular anode with eccentric or axially displaced cathode	63	..Discharge control discharge load
39.69	..With strapping for resonant structure	64	.Multiple filament load devices
		65	..Automatic substitution of the filament
39.71	..Magnetic field generating and pole structure	66	..Series connected filaments
39.73	..Interdigital electrode	67	..Diverse resistance filaments
39.75	..Anode with plural cavities	68	..Three or more controlled filament circuits
39.77	..With resonant cavity coupled to anode		

69	..Plural filaments energized in parallel	98	.Plural cathodes or heaters in the load device
70	.Load device and transformer	99	..Series connected cathodes or heaters
71	.Load device and impedance	100	...Thermostatic switch in the series circuit
72	.Load device and periodic electric switch	101	.Discharge device and/or rectifier in the cathode or heater circuit
73	.Electric switch inside evacuated or gas filled envelope	102	.Delayed application of the discharge potential
74	.Automatic shunt circuit closing or cut-out switch	103	..With surge generator in the discharge circuit
75	..Shunt circuit closing	104	..Thermostatic controlled delaying means
76	SPECIAL APPLICATION	105	.Pulsating or A.C. supply to the cathode or heater circuit
77	.Vehicle	106	..Automatic cut-out or voltage regulator in the cathode or heater circuit
78	..Vehicle motor or vehicle motion driven generator	107	.Automatic cut-out or voltage regulator in the cathode or heater circuit
79	..Vehicle or engine speed controlled	108	CONFINED GAS OR VAPOR-TYPE LOAD DEVICE WITH PRESSURE REGULATING MEANS
80	..Load device controller combined with vehicle controller	109	.Auxiliary discharge type
81	...Steering mechanism controlled	110	.Valve controlled
82	..Head light systems	111.01	DISCHARGE DEVICE LOAD WITH FLUENT MATERIAL SUPPLY TO THE DISCHARGE SPACE
83	...Alternate circuit closing	111.11	.With tangential fluent material supply
84	.Door or closure controlled load device	111.21	.Plasma generating
84.51	PULSE STORING SYSTEMS OF THE GASEOUS DISCHARGE-TUBE TYPE	111.31	..With extraction electrode
84.61	.With plural cathode or anode tube	111.41	..With magnetic field
85	WITH ELECTROMAGNETIC WAVE RADIATION PREVENTING OR SHIELDING MEANS	111.51	...Induction type
86	AUTOMATIC SUBSTITUTION OF THE POWER SUPPLY	111.61	...Acceleration
87	.With load device or electrode substitution	111.71	...Plasma containment
88	AUTOMATIC SUBSTITUTION OF THE LOAD DEVICE OR ELECTRODE	111.81	.Electron or ion source
89	.Plural substitution of load devices or electrodes	111.91	..Gas ionization type (e.g., ion pump or gauge source)
90	.Plural load devices with selective substitution of load device or electrode	112	WITH LOAD DEVICE TEMPERATURE MODIFIER
91	.Over-voltage or over-current controlled substitution	113	.Plural load device systems
92	.Diverse-type load device or electrode substituted	114	..Electric heater for the load devices
93	.With current shifting switch	115	.Electric heater for the load device
94	WITH CATHODE OR CATHODE HEATER SUPPLY CIRCUIT	116	..Automatic cut-out or voltage regulator for the heater circuit
95	.Plural load device systems	117	.Automatic control of the temperature modifier
96	..Series connected cathodes or heaters		
97	..Pulsating or A.C. supply to the cathode or heater circuit		

118	.Load device circuit controlled by the temperature modifying medium	151	.Load device irradiating the radiant energy responsive device
119	WITH AUTOMATIC SHUNT AND/OR CUTOUT	152	.Plural load devices
120	.Combined with signal, indicator, or alarm	153	..Selective energization of the load devices
121	.Plural load device systems	154	...Selective electric switch controlled by the radiant energy responsive device
122	..Series connected load devices	155	.Plural radiant energy responsive devices
123	.Plural shunts and/or cut-outs	156	.Radiant energy control of an electric discharge device in the supply circuit of the load device
124	.Auxiliary electrode controlled	157	.Discharge control discharge device load controlled by the radiant energy responsive device
125	.Shunt circuit closing	158	.Radiant energy controlled regulation of the current supply for the load device
126	..With compensating impedance	159	.Electric switch controlled by the radiant energy responsive device
127	.Supply circuit current and/or potential actuated switch	160	PLURAL POWER SUPPLIES
128	..Plural switch operating means	161	.Plural load devices
129	WITH SIGNAL, INDICATOR, OR ALARM	162	..Diverse type load devices
130	.Plural load device systems	163	...Simultaneous application of diverse type current supplies to a load device
131	..Selective indication of the load device	164	..Series connected current supplies
132	...Plural signals, indicators, or alarms	165	..Diverse type current supplies
133	.Plural signals, indicators, or alarms	166	...Simultaneous application to a load device
134	.Radiant energy responsive control type	167	.Plural cathode and/or anode load device
135	.Discharge device and/or rectifier in the signal circuit	168	..Diverse type current supplies to auxiliary and principal electrodes
136	.Electrically operated switch controlling the signal circuit	169.1	..Diverse-type energizing or bias supplies to different electrodes
137	POLYPHASE A.C. SUPPLY	169.2	...Including shifting of register, counter, or display
138	.M phase to N phase (e.g., phase splitters)	169.3	...Electroluminescent device
139	..Polyphase supply circuit	169.4	...Gas display panel device
140	...Phase multiplying	170	.Series connected current supplies
141	.Transformer in the supply circuit	171	.Discharge device and/or rectifier in one of the supply circuits
142	..With interphase transformer in the supply circuit	172	.Periodic switch in one of the supply circuits
143	..Convertible transformer connections		
144	..Plural load devices		
145	..Plural cathode and/or anode load device		
146	.Plural discharge control discharge device load devices		
147	.Plural cathode and/or anode discharge device load		
148	..Discharge control discharge device		
149	WITH RADIANT ENERGY SENSITIVE CONTROL MEANS		
150	.Radiant energy responsive load device		

173	.Condenser in one of the supply circuits	200 R	DISCHARGE DEVICE AND/OR RECTIFIER IN THE SUPPLY CIRCUIT
174	.Plural diverse pulsating or A.C. supplies	201	.Plural load device systems
175	.Diverse-type current supplies	202	.Plural cathode and/or anode discharge device load
176	..Simultaneous application to the load device	203	..Discharge device or rectifier in the auxiliary starting electrode circuit
177	LOAD DEVICE IN THE PRIMARY AND SECONDARY CIRCUIT OF THE SUPPLY TRANSFORMER	204	...Discharge control discharge device in the auxiliary electrode circuit
178	PLURAL DIVERSE-TYPE LOAD DEVICES	205	.Plural discharge devices and/or rectifiers in the supply circuit
179	.Series connected diverse-type load devices	206	.Discharge device and/or rectifier in the primary circuit of the supply transformer
180	..Plural diverse discharge device load	207	.Discharge device and/or rectifier in shunt to the load device
181	...Asymmetrical discharge device load	208	.Discharge control discharge device in the supply circuit
182	.Electric discharge device load	200 A	.Flashers
183	..Plural diverse discharge device loads	209 R	PERIODIC SWITCH IN THE SUPPLY CIRCUIT
184	THREE OR MORE LOAD DEVICES CONNECTED BETWEEN DIVERSE PAIRS OF PAIRED CONDUCTORS	210	.Plural load device systems
185 R	PLURAL SERIES CONNECTED LOAD DEVICES	211	..Distributor type periodic switch means
186	.Periodic switch in the supply circuit	212	...Transformer in the supply circuit
187	.Condenser in the supply circuit	213	...Distributor switch means in the primary circuits of plural transformers
188	..Condenser in shunt to load and supply	214	...With additional periodic switch in the primary circuit
189	.Discharge device loads	215	...With additional periodic switch in the distributor switch means circuit
190	..Asymmetrical discharge device loads	216	...Plural electrically operated switches
191	.Convertible to parallel connected	217	..Periodic switch selectively connectable to plural load device circuits
192	.Combined with parallel connected load device	218	.Magnetolectric generator supply
193	.Electric switch controlled load device	219	.Periodic switch in the primary circuit of the supply transformer
185 S	.Christmas lights	220	..Plural transformers in the supply circuit
194	REGULATION OF THE CONTROL CURRENT AND/OR POTENTIAL APPLIED TO DISCHARGE CONTROL DISCHARGE DEVICE LOADS BY PHASE SHIFTING MEANS	221	..Secondary conductively connected to the primary
195	.Plural load device systems	222	..Plural interrupted transformer coil circuits
196	..Inverse parallel connected asymmetric load devices		
197	...Discharge control discharge device in the control circuit		
198	..Discharge control discharge device in the control circuit		
199	.Discharge control discharge device in the control circuit		

223	..Condenser or inductance in the primary circuit	245	.Resistance in the condenser circuit
224	.Impedance or current regulator in the supply circuit	227 A	.Arc machining
225	.Periodic switch cut-out	246	PULSATING OR A.C. SUPPLY
226	.Plural periodic switches or multiple contact periodic switch	247	.With power factor control device
209 T	.Transistorized ignition systems	248	.Induction-type discharge device load
209 CD	.Capacitor dischargeneous ignition systems	249	.Potential node-type discharge device load
209 M	.Miscellaneous ignition systems	250	.Plural load device systems
209 PZ	.Piezoelectric ignition systems	251	..Inverse parallel connected asymmetrical discharge device loads
209 SC	.Silicon controlled rectifier ignition	252	..Discharge control discharge device loads
227 R	CONDENSER IN THE SUPPLY CIRCUIT	253	..Full wave systems with asymmetrical discharge device loads
228	.Plural load device systems	254	..Transformer in the supply circuit
229	..Condenser connected to plural cathodes or anodes of asymmetrical discharge device loads	255	...Plural transformers in the supply circuit
230	..Discharge control discharge device loads	256	....Primaries in series
231	..Plural series connected condenser and load device circuits	257	...With plural secondary or tapped secondary
232	..Condenser in shunt to load and supply	258	..Inductance in the supply circuit
233	.Plural cathode and/or anode discharge device load	259	...Variable inductance
234	..Condenser in the auxiliary starting electrode circuit	260	.Plural cathode and/or anode discharge device load
235	..Condenser connected to plural cathodes or anodes	261	..Auxiliary starting electrode-type discharge device load
236	.Electromagnetic influenced discharge device load	262	...Transformer or auxiliary winding in the auxiliary electrode circuit
237	.Discharge control discharge device load	263	...Inductance or potential surge generator in the auxiliary electrode circuit
238	..Condenser in the control circuit	264	...Impedance in the auxiliary electrode circuit
239	.Transformer in the condenser load device circuit	265	..Full wave-type system
240	.Electric switch in the condenser circuit	266	...Transformer in the supply circuit
241 R	.Condenser in shunt to the load device and the supply	267	.Electromagnetic influenced discharge device load
242	..With an inductance in the circuit	268	.Discharge control discharge device load
243	...Inductance in series with the load device and the supply	269	..With plural discharge control devices
241 P	..Photoflash	270	..Plural control potentials
241 S	..Strobe lights	271	...Plural pulsating and/or A.C. potentials
244	.Inductance in the condenser circuit	272	..Rectifier and/or discharge device in the control circuit

273	...With condenser in the control circuit	308	..Regulator responsive to plural conditions
274	..Transformer in the control circuit	309	..Thermal responsive regulator
275	..Condenser in the control circuit	310	..Shunted impedance-type regulator
276	..Transformer in the supply circuit	311	..Variable impedance-type regulator
277	..Plural transformers in the supply circuit	312	PLURAL LOAD DEVICE SYSTEMS
278	..Three or more coil-type transformers	313	.Electric switch in the supply circuit
279	..Current regulator in the primary circuit	314	..Pre-selectable switching systems
280	..Convertible to inductance	315	...Electrically controlled load device switch
281	..Relatively movable core and coil-type transformer	316	..Keyboard or pattern controlled switch
282	..Regulating transformer	317	..Three or more controlled load device circuits
283	..Inductance in the supply circuit	318	...Group control systems
284	..Variable inductance	319	....Four or more groups
285	...Relatively movable core and coil-type inductance	320	..Plural switches
286	....Biased movable part with supply current controlled movement	321	...Master circuit closing switch
287	..Periodic-type current and/or voltage regulator in the supply circuit	322	..Alternate circuit closing
288	THREE OR MORE WIRE DISTRIBUTION SYSTEMS	323	.Sequential starting
289	SURGE GENERATOR OR INDUCTANCE IN THE SUPPLY CIRCUIT	324	.Plural discharge device loads
290	.Circuit interrupter in the inductance circuit	325	..Discharge control discharge device loads
291	CURRENT AND/OR VOLTAGE REGULATION	326	DISCHARGE DEVICE LOAD
292	..Keyboard operated or pattern controlled regulator	327	.Discharge drawing-type discharge device
293	..Pre-selectable regulator systems	328	..Tilting discharge device
294	..Plural load device regulation	329	...Electrically controlled tilting
295	..Regulator selectively connectable to plural circuits	330	..Auxiliary starting electrode type
296	..Inverse control of load devices	331	...Movable auxiliary starting electrode
297	..Automatic regulation	332	...Automatic switch in the electrode moving device circuit
298	..Mechanically connected regulators	333	..Automatic cut-out for the electrode moving device circuit
299	..Plural regulators	334	.Plural cathode and/or anode discharge device load
300	..Current generator control	335	..Auxiliary starting electrode-type discharge device
301	..Plural automatic regulators	336	...Plural auxiliary starting electrode
302	.Current generator control	337	..Diverse potentials for the discharge electrodes
303	..Control of the prime mover	338	..Electromagnetic influenced discharge device
304	..Plural field-type generator	339	..Discharge control discharge device load
305	...Three or more fields		
306	..Regulator in shunt to the load device		
307	..Automatic regulation		

340	.With de-ionizing means in the cathode-anode circuit	DIG 1	FLUORESCENT LAMP CIRCUITS WITH MORE THAN TWO PRINCIPLE ELECTRODES
341	.With plural discharge control devices	DIG 2	HIGH FREQUENCY STARTING OPERATION FOR FLUORESCENT LAMP
342	..Diverse types		
343	..Plural electromagnetic devices	DIG 3	CIRCUIT FOR ION GAUGES AND PRESSURE GAUGES
344	.Electromagnetic influenced discharge device	DIG 4	DIMMING CIRCUIT FOR FLUORESCENT LAMPS
345	..Rail-type discharge device load		
346	..Plural current supply to the electromagnet	DIG 5	STARTING AND OPERATING CIRCUIT FOR FLUORESCENT LAMP
347	..Series connected with the load device	DIG 7	STARTING AND CONTROL CIRCUITS FOR GAS DISCHARGE LAMP USING TRANSISTORS
348	..Pulsating or A.C. supply to the electromagnet		
349	.Discharge control discharge device load		
350	..Plural control currents and/or potentials		
351	...Plural pulsating or A.C. currents and/or potentials		
352	..Rectifier and/or discharge device in the control circuit		
353	..With condenser in the control circuit		
354	..Transformer in the control circuit		
355	..Condenser in the control circuit		
356	...Inductance in the control circuit		
357	.Movable electrode discharge device		
358	.Plural gases or vapors in the discharge device		
359	PYRO-ELECTRIC DEVICE LOAD		
360	TIME-CONTROLLED		
361	PLURAL CONTROL STATIONS		
362	ELECTRIC SWITCH IN THE SUPPLY CIRCUIT		
363	MISCELLANEOUS SYSTEMS		

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