

94.1	MOLECULAR OR PARTICLE RESONANT TYPE (E.G., MASER)	34	.Particular frequency control means
1 R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS	35	..Electromechanical (e.g., motor)
2	.Plural oscillators controlled	36 R	..Reactance device (e.g., variable capacitors, saturable inductors, reactance tubes, etc.)
3	.Molecular resonance stabilization	36 C	...Capacitor controlled AFC
4	.Search sweep of oscillator	36 L	...Inductor controlled AFC
5	.Magnetron oscillator	1 A	.AFC with logic elements
6	.Klystron oscillator	37	BEAT FREQUENCY
7	..Plural controls	38	.Plural beating
8	.Transistorized controls	39	..Single channel
9	.Oscillator with distributed parameter-type discriminator	40	.Frequency or amplitude adjustment or control
10	.Plural A.F.S. for a single oscillator	41	.Frequency stabilization
11	..Plural comparators or discriminators	42	.With particular signal combining means (e.g., cavity mixer)
12	...With phase-shifted inputs	43	..With filter in mixer output circuit
13	..Motor control of oscillator	44	WITH FREQUENCY CALIBRATION OR TESTING
14	.With intermittent comparison controls	45	POLYPHASE OUTPUT
15	.Amplitude compensation	46	PLURAL OSCILLATORS
16	.Tuning compensation	47	.Oscillator used to vary amplitude or frequency of another oscillator
17	.Particular error voltage control (e.g., intergrating network)	48	.Adjustable frequency
18	.With reference oscillator or source	49	.Selectively connected to common output or oscillator substitution
19	..Spectrum reference source	50	.Cascade or tandem connected
20	..T.V. sync type	51	..Frequency dividers
21	...Lock to power line	52	..Semiconductor (e.g., transistor)
22	..Plural significant heterodyne stages	53	..Frequency multiplier
23	..Sensing modulation (e.g., frequency modulation controlled oscillator	54	..Diverse-type oscillators
24	...With motor comparator	55	.Synchronized, triggered or pulsed
25	..Signal or phase comparator	56	.Parallel connected
26	...Plural diode type	57	RING OSCILLATORS
27	...Plural active element (e.g., triodes)	58	PLURAL FUNCTIONS SIMULTANEOUSLY CONVERTIBLE (E.G., OSCILLATOR TO AMPLIFIER, ETC.)
28	...Unilateral element (e.g., diode)	59	SINGLE OSCILLATOR WITH PLURAL OUTPUT CIRCUITS
29	...Electromechanical	60	.Plural outputs of diverse wave form
30	.With stable heterodyne oscillator or source	61	WITH OSCILLATOR CIRCUIT PROTECTIVE MEANS
31	..Plural significant heterodyne stages	62	PROTECTIVE OF SAFETY DEVICES FOR PERSONNEL
32	..With particular discriminator (e.g., LPF and HPF)	63	WITH INDICATOR, SIGNAL, OR ALARM
33	...Plural diode type	64	

65	WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL CONDITION	98	..Disk seal tube (e.g., lighthouse, pencil tube)
66	.Temperature or light responsive	99	.Parallel wire type
67	WITH ELECTROMAGNETIC OR ELECTROSTATIC SHIELD	100	..Push-pull type
68	WITH OUTER CASING OR HOUSING	101	.Coaxial or shielded line type
69	.With temperature modifier	102	..Push-pull type
70	WITH TEMPERATURE MODIFIER	103	TUBE STRUCTURE FORMS INDUCTIVE PART OF RESONANT CIRCUIT
71	RAW A.C. USED AS SOURCE OF POWER OR BIAS	104	TRANSIT TIME OSCILLATOR
72	ELECTRON-COUPLED TYPE	105	WITH PARASITIC OSCILLATION CONTROL OR PREVENTION MEANS
73	.Piezoelectric crystal resonator	106	WITH PERIODOIC OR REPETITIOUS AMPLITUDE VARYING MEANS (E.G., TREMOLLO)
74	COMBINED WITH PARTICULAR OUTPUT COUPLING NETWORK	107 R	SOLID STATE ACTIVE ELEMENT OSCILLATOR
75	.Space discharge or unilaterally conductive device in output network	108 R	.Transistors
76	..Harmonic producing or selecting network	109	..Amplitude stabilization and control
77	.Wave filter	110	..Bridge type
78	ELECTRICAL NOISE OR RANDOM WAVE GENERATOR	111	..Relaxation oscillator
79	BEAM TUBE	112	...Blocking oscillator type
80	.With beam sweeping or deflecting means	113 R	...Multivibrator type
81	.With electron bunching or velocity variation means	113 A	...Saturable core controlled converters
82	..Traveling wave type	113 S	...Converter using silicon control rectifiers
83	..Multicavity type (e.g., Klystron)	114	..Push-pull
84	..Reflex type (i.e., with repeller electrode)	115	..Negative resistance
86	WITH MAGNETICALLY CONTROLLED SPACE DISCHARGE DEVICE (E.G., MAGNETRON)	116 R	..Electromechanical resonator controlled
87	.With particular pulsing means	116 FE	...Field-effect transistor active element
88	.With frequency stabilization	116 M	...Electromechanical resonators other than piezoelectric crystals
89	.With secondary emissive electrode	117 R	..L-C type
90	.With frequency adjustment	117 FE	...Field-effect transistor active element
91	.With undesired mode suppression or selection means	117 D	...Distributed parameter resonator transistor oscillators
92	RETARDING FIELD TUBE-TYPE OSCILLATORS (E.G., BARKHAUSEN KURZ)	108 A	..Use of complimentary-type transistors
93	.With distributed parameter resonator	108 B	..Phase shift oscillator
95	BUTTERFLY RESONATOR	108 C	..Integrated circuit oscillators
96	WITH DISTRIBUTED PARAMETER RESONATOR	108 D	..Integrated modules with discrete elements oscillators
97	.Tube enclosed by resonator structure	107 DP	.Significant distributed parameter resonator (e.g., cavity)
		107 P	..Parallel-connected oscillator devices

107 SL	..Stripline type	156	.Vibrating reed or string type (e.g., tuning fork)
107 C	..Coaxial type	157	.Magnetostrictive
107 A	.Acoustoelectric device oscillators	158	.Crystal
107 G	.Gunn-type bulk effect device oscillators	159	..Plural tube
107 S	.Superconductive device oscillators	160	..With means to limit crystal current or voltage
107 T	.Tunnel diode oscillators	161	..With crystal substitution
126	GASEOUS SPACE DISCHARGE DEVICE	162	..Plural crystals in circuit
127	.Spark or open arc type	163	..Crystal having three or more electrodes in circuit
128	.Drives shock excited L.C. circuit	164	..Anode or cathode to grid crystal circuit
129	.Relaxation oscillator	165	SHOCK EXCITED RESONANT CIRCUIT
130	..Plural gaseous devices	166	.With keying means of the active element type (e.g., burst generator)
131	..Discharge device or rectifier in "C" or "L" charging or discharging circuit	167	L-C TYPE OSCILLATORS
132	NEGATIVE RESISTANCE OR NEGATIVE TRANSCONDUCTANCE OSCILLATOR	168	.Plural tubes
133	.Secondary emission (e.g., dynatron)	169	.Anode to cathode coupled or connected resonant circuit
134	.Transitron type	170	.Anode to grid coupled or connected resonant circuit
135	PHASE SHIFT TYPE	171	.Grid to cathode coupled or connected resonant circuit
136	.Zero phase shift	172	WITH SYNCHRONIZING, TRIGGERING OR PULSING CIRCUITS
137	.With R.C. ladder-type phase shift network	173	.Triggering or pulsing (e.g., burst generators)
138	BRIDGE TYPE	174	..Self-quenched
139	.Piezoelectric crystal in bridge	175	FREQUENCY STABILIZATION
140	.R.C. or R.L. type	176	.Temperature or current responsive means in circuit
141	..Wien bridge	177 R	WITH FREQUENCY ADJUSTING MEANS
142	..Double T bridge	178	.Cyclic frequency sweeping means (e.g., vibrato)
143	RELAXATION OSCILLATORS	179	.Step-frequency change (e.g., band selection, frequency- shift keying)
144	.Multivibrators	180	.Reactance tube type
145	..With sync, triggering or pulsing circuit	181	.Variable inductance device (e.g., saturable core or adjustable vane inductor)
146	.Blocking oscillators	177 V	.With voltage sensitive capacitor
147	..Using discharge device with plural grids	182	AMPLITUDE CONTROL OR STABILIZATION
148	..With 3 or more winding feedback transformers	183	.Automatic
149	..With sync, trigger, or pulsing circuit (e.g., self-pulsing)	184	HAVING DISCHARGED DEVICE OR PARTICULAR CONSTRUCTION
150	.Output supplied to another discharge device circuit	185	WITH PARTICULAR SOURCE OF POWER OR BIAS VOLTAGE
151	.Involving resonant or inductive wave forming circuit or transformer	186	.Regulated
152	.Multi-grid discharge device in charged capacitor circuit	187	MISCELLANEOUS OSCILLATOR STRUCTURES
153	.With sync, trigger or pulsing circuit		
154	ELECTROMECHANICAL RESONATOR		
155	.With optical, piezoelectric or acoustic coupling means		

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 2 **PHASE LOCKED LOOP HAVING LOCK
 INDICATING OR DETECTING MEANS**

DIG 3 **LOGIC GATE ACTIVE ELEMENT
 OSCILLATOR**