

## GR Instruments and Parts

Dates are of *GR Experimenter* or *GR Today* articles.  
 Dates immediately following a Bulletin number are those on that Bulletin.  
 Dates in ( ) are other articles on item & later models.  
 Letters in ( ) refer to Catalogs, Letters with - are versions (-B).  
 Names are signed Authors, names of others who worked on item are in ( ).  
**In Bold: In Museum Collection** \* See file "Early Instruments not in Catalogs"  
Underlined: on display in Westford Museum on May 02

By Type Number:

25-A Broadcast Frequency Monitor	Jan 1940	J.K.Clapp
50 Variac®	July 1939	S.A.Buckingham
50-Pl Power Chokes	"	
60-AM,-AU Variac®	Nov 1941	S.Smiley
70 Variac®	May 1938	
<b>71 Variac®</b>	<b>May 1951</b>	<b>H.M.Wilson</b> (gift of C Wenzelberger)
80 Variac®	May 1938	
90-B Variac®	Sep/Oct 1940	
<b>100 Variac®</b>	<b>Sept/Oct 1934</b>	<b>100Q</b>
<b>101 Condenser (A,B,C) 1915</b>	<b>Bull 101 June 1920,</b>	<b>photo June 1930</b>
<b>101-L 101-M 101-P (C)</b>		
101-EX Extension Handle	Bull 916 Oct 1923	
<b>102 Decade Resistor (A,C)</b>	<b>Bull 204 Dec 1920</b>	<b>102-E&amp;G 102-C</b>
105 Wavemeter (A) 1916	photo June 1930	
<b>106 Standard Inductor (A to N)</b>	<b>Bull 301 June 1920</b>	<b>106-C 106-K?</b>
<b>107 Aryton-Perry Variable Inductor (A to R)</b>		
107-J,K,L,M,N	<b>June 1932</b> Burke	direct-reading <b>Jan 1935</b>
108 Oil Condenser (A) 1916	-D .006, -F .0015	
109-A 3-wire Receptacle (P)	July 1957	
110 Spark Indicator (A)		110-M Vacuum Tube used in
111 10 Step Inductor (A)		also 12 Step Inductor (C)
115 Thermo-Meter (for 105) (A)	L.W.Austin Jour NBS No7 Vol.2	
<b>119 R-F Choke *See above</b>	<b>-A Jan 1937</b>	
120-A,-B,-C Standard Condensers (A)		air, fixed
122 Audibility Meter (A)		
123 Key	have photo* (see "Inst not in Catalogs")	
<b>124 Condenser 1916 (A)</b>		<b>photo June 1930</b>
<b>125 Phantom-Antenna Resistor (A,G)</b>		
127 Hot Wire Ammeters, 3" (B,C,F)	Bull 901 Jan 1920, Bull 932	
128 Hot Wire Ammeters, 5"		
129 Galvanometer (B)		
<b>130 Slide-Wire Bridge 1918 (B)</b>	<b>Bull 203,208</b>	
132 Portable Wavemeter (B)		
133 Standard Resistor (A-G)	Bull 201	
134 Thermo Couples (B,C)		
137 Dials & Knobs (F)	Bull 908 May 1921	
<b>138-A,W-Z Binding Posts,Contacts (F,G)</b>	Bull 908 May 1921	<b>138-V Bull 932</b>
138-T,U Jack Top Binding Post	Bull 930 July 1928	
139-A Multiple Leaf Switch (E)	Bull 908 May 1921	
140 Relay Key	have photo * (see Inst Not in Catalogs)	
143-D Rectifier Tube (H)		
145 Direct Reading Wavemeter (B,C)		
147 Variable Air Condenser/Wavemeter (A)	June 1923	
149 Radio Transmitter	have photo, see GR Radios on Misc CD	
151 Flame Proof Key (C) 1915		
<b>154 Voltage Divider (J)</b>		
<b>156 Socket (E)</b>	<b>Bull 910 Jan 1922</b>	
158 Auxiliary Radio Transmitter	have photo, see GR Radios on CD	
159 Aperiodic Circuit (see old GR photos)		
<b>160 Decade Bridge 1918 (B)</b>		<b>Designed by Rawson?</b>
161 Antenna Reel	have photo*	
<b>164 Audibility Meter 1916 (C)</b>	<b>Bull 202 1920</b>	
166 Amp & Tele Transformers (C)	Bull 901 Jan 1920, Bltn 932	
168 Switch	have photo*	

169 Vernier Condenser (C)  
170 Hot Wire Galvanometer (C) Bull 501 June 1920  
 171 Single Leaf Switch Bull 908 May 1921  
 174 Direct Reading Wave Meter (C,F)  
 177 Inductor Form Oct 1933  
 178 High-Frequency Buzzer (C) Bull 901 Jan 1920  
 182-A,-B,-C Variable Air Condenser (C) -E,-F,-G Bull 901 Jan 1920  
189 Pointer Galvanometer (C) 189L  
 190 Variometer 650mH Experimental ? Not in a catalog  
 191 Universal Wave Meter (C)  
193 Decade Bridge (B-F) 1919  
 193-P1 Wagner Ground (F2) See Sept 1931 R.F.Field  
199 Galvanometer  
200 Variac® 200-CM June/July 1933 \*200CU, 200B  
 202 Switch and Knob (E) Bull 908 May 1921  
 203 Audio Oscillator (fork) have photo (from B. Sargent)  
 206 1 Step Amplifier Bull 902 May 1920 have photo\*  
210 Ratio-Arm Box (F,G) Bull 903 Aug 1920  
 211 Vacuum Tube Detector Bull 902 May 1920  
 213 Audio Oscillator (E) Bull 701 Feb 1920  
 213-B,-C (F,G) Apr 1930 C.E.Worthen -B 1000c, -C 400c  
214 Rheostats (E) Bull 901 Jan 1920  
 215 2 Step Amplifier Bull 902 May 1920  
 216 Capacity Bridge (E,F,G) Bull 404 Jan 1921 see Jan 1930 RFF  
219 Decade Condensers (E,F) (11/42) 219-M  
 221S Mica Condenser Have Photo  
222 Variable Condenser (F) Bull 702 Aug 1920 (Oct 1935 R.F.Field)  
 224 Precision Wavemeter (G) Bull 702 Aug 1920 (Sept 1929 Clapp)  
226 Four Step Inductor Bull 302 Aug 1920 have sheet\*  
 229 Galvanometer Shunt (E,G) Bull 903 Aug 1920  
 231-A Ampifying Transformer \* Bull 907 Apr 1921  
 231-M Modulating Trans Bull 907 Apr 1921 231-W Bull 923 Oct 1925  
236 .5 mf Bypass Condenser \* Bull 923 Oct 1925 (in radio)  
 239 Laboratory Condenser (Variable Air) (E) Bull 104 Aug 1922  
 240 Capacity Meter (E) Bull 409 Aug 1924 Morley has one (a bridge)  
 241 Microphone Hummer (F) Bull 932 Sep 1930  
 246 Variable Air Condenser (E,G) Bull 108 Nov 1923  
247 Variable Air Condenser (E,F) Bull 103 Jan 1922 "best sellers" see July 1931  
 247-W Wavemeter and Filter (E) Bull 923 Oct 1925  
 248 Line-Amplifier Transformer (E)  
 248K Tandem Condenser Bull 923 Oct 1925  
249 Attenuation Box (F) Aug 1927 H.W.Lamson  
 260 Porcelain Insulator (E,G) Bull 914 Mar 1923  
 268 Variocoupler (E,G) Bull 917 Mar 1924  
269 Variometer (E,G) Bull 919 Bull 923 Oct 1925  
 271 Medium Frequency Transformer \* Radio Apparatus catalog, Bull 918 May 1924  
 272 Power Amplifier Bull 912 Dec 1922  
 274 Jacks and Plugs (E) Bull 919 Bull 923 Oct 1925  
 275 Piezo-Electric Oscillator(E1,F) Bull 718 1924 (see Oct,Nov 1930 J.K.Clapp)  
276 Quartz Plate (E1,F) Bull 724 Oct 1926  
 277 Inductance and Coupling Coils (E) Bull 919 Bull 923 Oct 1925  
 280 Insulator (E) Bull 914 Mar 1923  
 282 Socket Bull 914 Mar 1923  
 283 Tube Protecting Resistance Unit Bull 919 Radio Apparatus Cat, Bull 923 Oct 1925  
 284 Line-Amplifier Transformers (E) Bull 8201 Nov 1927  
 285 Audio Transformers (E) Bull 923 Oct 1925  
287 Direct-Reading Ohmmeter (E) Bull 720 Nov 1926 Bull 5051 Oct 1927  
 289 Fader Recorder Apr 1927 photo June 1930  
 290 Piezo-Electric Oscillator (F2)  
 292 Audio Frequency Transformers \* Jan 1932  
 293 Universal Bridge (F3,G) Jan 1932 R.F.Field 293-P1  
298 Meter Mountings (G)  
299 Socket (E) Bull 916 Aug 1923 (in radio)  
 300 Amplifier Unit \* Bull 916 Aug 1923  
301 Rheostat & Potentiometer (E,G) Bull 916 Aug 1923  
 301-S104 Variable Delay Line Oct 1961 F.D.Lewis  
 302 Geared Dial (E) Bull 923 Oct 1925

303 Geared Dial (E) Bull 923 Oct 1925  
 304 Bakelite Dial Bull 923 Oct 1925  
 305 Combination Wavemeter & Filter \* Bull 710 Oct 1923  
 306 Crystal Set (Tom Vales has picture)  
 309 Socket Cushion (E) Bull 923 Oct 1925 "best sellers" see July 1931  
 310 Dials (G) Bull 923 Oct 1925  
 314 Rheostats & Potentiometers (G)  
 317 Dials (F,G) Bull 923 Oct 1925  
 318 Dial Plate (F2) Apr/May 1933  
 320 180 K.C. Test Oscillator  
 321 Artificial-Cable Boxes (E)  
 329 Variable Attenuation Network (F) Sept 1927 H.W.Lamson  
 330 Filter Section (E,F,G)  
**331 Tuned Transformer** Bull 923 Oct 1925  
 332 Station Frequency Meter D3 Bull 7100 July 1927 Bull 716  
**333 Rheostat & Potentiometer** Feb 1933  
 334 Variable Air Condenser (E,F) Bull 923 Oct 1925  
 335 Variable Air Condenser (F) Bull 932 Sep 1930  
 337 Switch (E,F,G) Bull 930 July 1928  
**338 String Oscillograph & Vibration Galvanometer (E,G)** Bull 717 1926 see Apr 1931  
 339 Switch (F) Bull 932 Sep 1930  
**340 Rheostat (E,F) (switched, in box)**  
 345 Audio-Frequency Transformer  
 346 Adapter (E)(tube socket adapter) Bull 923 Oct 1925  
 348 Antenna Measuring Equipment 1929  
 349 Socket (E,G) Bull 923 Oct 1925  
 353 RF Test Set photo of test setup and circuit Feb 1927  
 355 Amplifier Test Set (E) Bull 721 Nov 1926 photo June 1930  
 356 Quartz-Plate Holder (F) Bull 932 Sep 1930  
**358 Wave Meter (E,F,G)** Bull 926 Oct 1926 July 1926 (unsigned)  
 359 Variable-Ratio Transformer (E,F,G) Bull 804 Dec 1926  
 360 175 & 180 KC Test Oscillators\* Bull 932 Jun 1929, Sep 1929 C.T.Burke  
 361-A Vacuum-Tube Bridge (E?) Bull 414 Nov 1926  
**361-B Vacuum-Tube Bridge (F)** 361-A modified for AC tubes Feb 1928  
 365 Plate-Supply Transformer (E) Bull 923 Oct 1925  
 366 Filter Choke (E) Bull 923 Oct 1925  
 367 Output Transformer (E) Oct 1927  
**368 Variable Air Condenser (E,G)** Bull 923 Oct 1925  
 369 Impedance (inductor) (E) Bull 923 Oct 1925  
 371 Rheostat & Potentiometer (E,F,G) Bull 931 Oct 1928  
 373 Double Impedance Coupler (E) Oct 1927  
 374 Condenser (variable, air) (E) Bull 923 Oct 1925  
 375 Piezo-Electric Oscillator (E,F) (6/35)  
**376 Quartz Plates (F,G)** Feb 1930 C.E.Worthen  
 377 Low-Frequency Oscillator (E) Bull 803 Nov 1926  
**377-B Low-Frequency Oscillator (G)** Oct 1929 L.B.Arguimbau photo June 1925  
 379 Radio-Frequency Chokes (E,F,G)  
 380 Decade Condenser Units (F) (for 219 Boxes)  
 383 Portable Capacity Bridge (E,F,G) Feb 1927  
 384 Portable R-F Oscillator & Inductors (E,F,G) Bull 6150 July 1927  
 387-A Speaker Filter (E,F) Oct 1927  
 388 Vacuum Tube Reactivator April 1927 Lamson, Feb 1928 C.T.Burke  
 389-B Pierce Magnetostriction Oscillator (F)  
 390 Plate Supply & Amplifier Kit \* Cat 1928 (E1) Bull 926 Oct 1926 July 1926  
 395 Raytheon "B" Eliminator & Amplifier Kit \* Cat 1928 Bull 926 Oct 1926  
**400 Power Amplifier & Plate Supply \* Cat 1928 (E1)** Bull 926 Oct 1926 Aug 1926  
**403 Standard-Signal Generator (E,F)** Nov 1928 Lewis Hull see also June 1935  
 403-B Standard-Signal Generator Mar 1930 C.T. Burke  
 403-C Standard-Signal Generator (F2)  
 404 Service Test Oscillator (F2) June 1929  
**405 Raytheon Plate Supply** Bull 926 Oct 1926  
 407 Synchronous Shutter (F2) Apr 1931 H.W.Lamson (P1 Shutter Wheel)  
 408 Oscillograph Camera (F2) Apr 1931 H.W.Lamson  
 409 Camera Shelf (F2)  
 410 Rheostats (E) July 1927  
 411 Synchronous Motor (E) May 1927 J.K.Clapp  
 413 Beat-Frequency Oscillator (E,F) Bull 6150 July 1927 Apr 1927  
 415 Laboratory Amplifier Mar 1927 Bull 4250, 4251

418 Dummy Antenna (F3,G)	See Aug 1930	(-G 11/37)
419 Rectifier-Type Wavemeter(F3)	Nov 1931	E.Karplus
421 R.F. Reactance Meter (H)	Apr 1934	H.H.Scott
423 Vacuum Tube Oscillator (F)		
425 Thermo-Ammemeters	Bull 504 Nov 1923	
<b>426-A Thermionic Voltmeter (E,G)</b>	Sept 1928	
427-F Alternating-Current Voltmeter (F)	Bull 932 Oct 1930	
429 Attenuation Box (F,G)		(7/35)
433 Rheostat	Jan 1942	
<b>434-B Frequency Meter (F3,G)</b>	<b>Nov 1931</b>	<b>-B (No -A?)R.F.Field (Wien Br)</b>
437 Adjustable Center Tap Resistor (E,F)	Dec 1927	
438 Socket (E)	July 1927	
439 Center Tap Resistor (E,F)	July 1927	
440-A Low-Voltage Transformer (E)	July 1927	
441 Push-Pull Amplifier (E)	Oct 1927	C.T.Burke
443 Mutual-Conductance Meter (E)	Sept 1928	(bridge)
444 Socket (H)		
445 Plate Supply & Grid-Bias Supply (E)	Sept 27	
446 Voltage Divider (E)	Dec 1927	
449 Adjustable Attenuator	Nov 1937	
<b>452 Voltage Divider (F)</b>	<b>Nov 1937</b>	<b>452-C</b>
456 Duplex Siphon Recorder	Feb 1932	H.W.Lamson
<b>457 Modulation Meter (F2 p143, G)</b>		<b>see Mar 1930?, Aug/Sept 1933</b>
458 5-Meter Wavemeter (E)	Bull 931 Oct 1928	
459-A Manual Recorder	Dec 1931	H.S.Wilkins
467 Synchronous Driving Fork	Nov 1927	H.W.Lamson
<b>471 Rheostats &amp; Potentiometers (G)</b>		
473 Synchrometer	Nov 1927	H.W.Lamson
475 Frequency Monitor (J)	Apr 1935	C.E.Worthen
<b>476 Quartz Bar (J)</b>		
478 Cathode-Ray Oscillograph Tube (F3,G)	Supplement F-303 May 1931	
480 Relay Rack (F,G)	Sept 1932	
481 Polar Relay	Feb 1929	C.R.Burke
483 Output Meter (F3,G)		(-F 6/36)
484 Modulated Oscillator & Inductors (H)	Oct 1932	
486 Output Meter (F)	July/Aug 1929	J.D.Crawford
487 Megohm Meter (J)	Sep/Oct 1936	F. Ireland
488 Alternating-Current Meters (F,G)	Bull 932 Oct 1930	
489-B Pierce Twin Magnetostriction Oscillator (F)		
<b>492 Oxide Rectifier (F2,G)</b>		
493 Vacuum Thermocouples (F3,G)	Mar 1939	D.B.Sinclair
<b>496 Cathode Ray Oscillograph Power Supply Unit (F3,G)</b>		Supplement F-303 May 1931
<b>497 Tube Mounting (F3,G)</b>		Supplement F-303 May 1931
<b>500 Resistors (F3,G)</b>		
502 Dials (F2,G)		
503 Dials (F2,G)		
<b>505 Condensers (J)</b>	<b>Jan 1933</b>	<b>A.E.Thiessen</b>
<b>506-A Sweep Circuit (F)</b>	<b>May 1932</b>	<b>H.H.Scott</b>
507-A Non-Polar Relay	Nov 1929	
508 Oscillator (F3,J)		(1/36, R.F.Field)
<b>509 Mica Condensers</b>	<b>Apr 1935</b>	<b>509-U 0.2uF</b>
510 Decade Resistor Unit (F3,G)		
511 Synchronous Clocks (F,G)	see June 1930,	
511-C Synchro-Clock	Oct 1930	H.S.Wilkins
513 Beat-Frequency Oscillator (F,G)	Apr 1931	C.T.Burke
514 Amplifier (F3,G)	Oct 1931	C.T.Burke
516 Radio-Frequency Bridge (G)	July 1932	C.T.Burke (-C 12/33)
519 Dial Lens (H)	Jan 1933	
520 Dial Lock (H)	Jan 1933	
521-A Edgerton Stroboscope	Aug/Sept 1933	
522 Dial Plate (G2)		
523 Dial Plate (G2)		
525 Resistor (power) (G2)	Apr/May 1933	
526 Rheostats (G2)		
527 Rectifier Filter (E,F,G)	Bull 930 June 1928	
528 Cathode-Ray Tube (G2)	June/July 1933	J.D.Crawford (see Nov '37)
529 Attenuation Box (F,G)		
530 Band-Pass Filter (F3,G)		

531	Power Supply (G)	Apr/May 1933	Museum has manual
532	Station Frequency Meter (E)	Apr 1931	C.T.Burke
533	Rheostat & Potentiometer (G)	Feb 1933	(250w)
534	Band-Pass Filter (G)		
535	Frequency Meter-Monitor (H)	Jan 1933	Unsigned
536	Distortion-Factor Meter (F3,G)	Nov 1931	W.N.Tuttle
537	Knobs (G)		
539	Variable Air Condensor (F2)		(H. Hyman has one, unboxed)
540	Filament Transformer (F)		
541	Push-Pull Amplifier Transformers (E,F)	Bull 930	June 1928
544	Megohm Meter *(Megohm Br)	June/July 1933	R.F.Field (-B 7/37)
545	Power Transformer *	May 1929	Bull 932
<b>546</b>	<b>Microvolter (G)</b>	<b>June/July 1933</b>	<b>J.W.Horton</b> (-B 4/41 M.A.Gilman, <b>-C</b> '48)
547	Temperature Control Box (G)	Nov 1929	unsigned
<b>548</b>	<b>Edgerton Stroboscope (G)</b>	<b>Dec 1932</b>	<b>H.R.Lamson (Edgerton &amp; Germeshausen)</b>
<b>549</b>	<b>Synchronous Motor Contactor (G)</b>	<b>-B</b>	
550	Mercury Lamp Renewal (G)		
552	Volume Control (F2)	Bull 932	Sep 1930 June 1931 A.E.Thiessen
553	Volume Control (F2)	Bull 932	Sep 1930 June 1931 A.E.Thiessen
554	Voltage Divider (F)	Feb 1929	
556	Amateur-Band Condenser (F2)		(variable, air)
557	Amateur-Band Condenser (F)		
558	Wavemeter (E)	July 1928	
559	Noise Meter (G)	Mar 1933	H.H.Scott (-B 11/35)
560	Crystal Holder (H)	Sept 1932	
561	Vacuum Tube Bridge (G)	May 1932	W.N.Tuttle (-D 11/41)
565	transformer (G)		
<b>566</b>	<b>Wavemeter (G)</b>	<b>Oct 1931</b>	<b>E.Karplus</b>
568	Variable Air Condenser (G)	Oct/Nov 1938	
<b>572</b>	<b>Microphone Hummer (G)</b>		
573-A	Resistance-Impedance Coupler	* Bull 932	Sept 1930
<b>574</b>	<b>Wavemeter (G)</b>	<b>Oct 1931</b>	<b>unsigned</b>
575	Piezo-Electric Oscillator (G)	see Nov 1930	(types 275 & 547)
<b>576</b>	<b>Quartz Bar (F2) 1930</b>		
577	Inductor (G)	Bull 932	Sept 1930
<b>578-A</b>	<b>Bridge Transformer</b>	<b>April 1934,</b>	<b>R.F.Field (10/35, 1/38)</b>
579	Tube Mounting (G)	June/July 1933	J.D.Crawford
580	Power Supply Unit (G)	June/July 1933	
<b>581</b>	<b>Frequency Deviation Meter (G)</b>	<b>Cat F Supp 1931</b>	<b>(1/32)</b>
<b>583</b>	<b>Power Output Meter (G)</b>	<b>May 1932</b>	<b>J.D.Crawford</b>
585	Audio-Frequency Transformer (E,F2,G)	Bull 930	July 1928 July 1928
586	Output Level Indicator (F,G)	Apr 1930	(6/35)
587	Speaker Filter (E)	Bull 930	July 1928 Apr 1929
588	Direct-Current Meter (G)	see Oct 1930	
590	Piezo-Electriuc Oscillator (F,G)		
<b>591</b>	<b>Temperature Control Unit (F)</b>		
<b>592</b>	<b>Multivibrators (F,G)</b>		<b>see Oct 1932</b>
<b>593</b>	<b>Timing Unit (F,G)</b>		
<b>594</b>	<b>Heat-Control Unit (G)</b>		
595	Power Supply Unit (F,G)		
597-A	Tube Mounting (for CRT)	June/July 1933	
598	Fader (F)	July/Aug 1929	H.W.Lamson
600	Standard-Signal Genertor (F3,G)	Aug 1931	L.B.Arguimbau & J.D.Crawford
601	Standard-Signal Generator (F3)	see Apr 1932	A.E.Theissen
<b>602</b>	<b>Decade Resistance Boxes</b>	<b>Feb 1932</b>	
603	Standard-Signal Generator (G)	May 1932	C.T.Burke
604	Test-Signal Generator (G)	Feb 1933	<b>604-P20 coil</b>
605	Standard-Signal Generator (K1)	June 1936	A.E.Thiessen
605-B	Standard-Signal Generator	Nov 1937	
607-S1	Std Gsignal Generator		museum has manual
608-A	Oscillator (1st R-C Osc)(K1)	Apr 1939	H.H.Scott
610	Ratio-Arm Box (G)		
611	Synchro Clock (J)	1922?	see Oct 1930 H.S. Wilkins
612	Control Panel (G)		
<b>613</b>	<b>Beat-Frequency Oscillator (G)</b>	<b>May 1932</b>	<b>C.T.Burke (-B 6/34)</b>
614	Selective Amplifier (J)		
615	Hetrodyne Frequency Meter (G)		
616	Hetrodyne Frequency Meter (G)	see Oct 1932	

617	Interpolation Oscillator (G)		
618	Harmonic Oscillator (G)		
619	Hetrodyne Detector (G)	Oct 1932	
620	Hetrodyne Frequency Meter (M)	Sept-Oct 1936, Feb 1940	J.K.Clapp
621	Edgerton (Power) Stroboscope (J)	Sept 1933	unsigned (1/36 C.T.Burke)
624	Precision Wavemeter (G)		624P Inductors
625	Bridge (G)	Apr/May 1933	R.F.Field
<b>626</b>	<b>Vacuum-Tube Voltmeter (F3,G)</b>	<b>Nov. 1931</b>	<b>Lamson</b>
627	Jack-Top Insulator (G)		
628	Insulator (G)		
629	Lead-In Assembly (G)		
630	Stand-off Insulator (G)		
<b>631</b>	<b>Strobotac® (J)</b>	<b>Aug 1935</b>	<b>H.H.Scott (Wilkins, Edgerton &amp; Germeshausen)</b>
<b>631-B</b>	<b>Strobotac</b>	<b>May 1939</b>	<b>C.E.W (Charles Worthen, ed)</b>
631-P1	Strobotron		
632	Capacitance Br For Electrolytic Condensers	June/July 1933	R.F.Field
<b>635</b>	<b>Electron Oscillograph (G)</b>	<b>June/July 1933</b>	<b>J.D.Crawford</b>
<b>636</b>	<b>Wave Analyzer</b>	<b>June/July 1933</b>	<b>L.B.Arguimbau</b>
637	Fluted Knobs (G)	Aug/Sept 1933	
638	Sockets (F2)		
639	Variable Air Condenser (G)		
641	Transformer (K)	Dec 1939	L.E.Packard
642	Volume Control (G)	May 1932	A.E.Theissen
644-A	Thermocouple (K)		
645	Laboratory Amplifier	Apr 1930	A.E.Theissen
646	Logarithmic Resistor (J)		
647	Socket (G)		
648	Strobolux (M)	May 1939	C.E.Worthen
649	Sockets (F2)		
<b>650-A</b>	<b>Impedance Bridge (H)</b>	<b>Apr/May 1933</b>	<b>R.F.Field</b>
650-P1	Oscillator-Amplifier	Apr 1946	H.W.Lamson
651	Camera Assembly (H)	Nov//Dec 1934	H.W.Lamson
652	Volume Control	1931	
<b>653</b>	<b>Volume Control (G)</b>	<b>Feb 1933</b>	
654	Voltage Divider	May 1932	
655-A	Bedell Sweep Circuit (H)	May 1934	H.H.Scott
656/657/658	Sockets (F2,G)		
660	Universal Rack (J)	Oct 1933	
661	Unit Panel Equipment (G)	Oct 1933	
<b>663</b>	<b>Resistor (HF)</b>	<b>Jan 1939</b>	<b>D.B.Sinclair</b>
664	Thermocouple	May 1928	L.B.Arguimbau
666	Variable-Ratio Transformer (G)		
667	Inductance Bridge (H)	Mar 1934	R.F.Field (6/35)
668	Compensated Decade Resistor Units,	Mar 1934	R.F.Field
669-A,R	Compensated Slide Wires (H)	Mar 1934	
<b>670-F</b>	<b>Compensated Decade Resistor (H)</b>	<b>Mar 1934</b>	<b>R.F.Field</b>
671-A	Schering Bridge (60 Hz)	June 1938	H.W.Lamson
672	Power Supply (H)	Sep/Oct 1934	
673	Power Supply (H)		
674	Plugs & Jacks (G)		
675	Piezo-Electric Oscillator (J)		
<b>676</b>	<b>Quartz &amp; Mounting (J)</b>		
677	Coil Forms	Jan 1933	(5/36)
678	Jack & Plug Base (J)		
679-A, B	Inductor	Mar 1934	M. Eastham & J.M.Clayton
680	Jack Base (G)		
681	Frequency Deviation Meter (J)	Jan 1940	J.K.Clapp
682	Frequency Deviation Meter (J)		
683-A	Oil Cell	Sep/Oct 1934	R.F.Field (4/35)
684-A	Modulated Oscillator	Nov 1937	
686-A	Power-Level Indicator	Oct 1937	A.E.Theissen
<b>687</b>	<b>Electron Oscilloscope &amp; Bedell Sweep Ckt</b>	<b>June 1934</b>	<b>(HHS &amp; EK)</b>
687	BM Cabinet Model, 687-BR Rack Model	see 11/35 p.8	
690-B	Piezo-Electric Oscillator (H)		
691	Temperature Control Unit (H)		
692	Multivibrator (J)		
693	Snychro Clock (H)	K, 1939	
694	Crystal Osc. (H)		

695 Power Supply (H)		
696 Ac Power Supply (H)		
698 Duplex Multivibrator (last 1946)		
699 Comparison Oscilloscope (K)	Dec 1931 ?	J.K.Clapp
700 Beat-Frequency Oscillator (M)	Jan 1939	D.B.Sinclair
701 Direct Dial Drives	Aug 1940	
702/703 Friction Dial Drives	Aug/Sep 1933	
704 Precision Dial (G)		
705 Friction Dial Drive (J)	Feb 1935	
706 Precision Dial(G)	Jan 1933	
707 Cathode-Ray Null Indicator	Apr 1939	H.W.Lamson
710 Plain Dial (G) Direct Dial Drive (J)		
712 Direct Dial Drive (H,J)	Feb 1935	
713 Beat-Frequency Oscillator (J)	Jun 1935, (7/35)	1935 L.B.Arguimbau
714 Amplifier (H)	Sep 1935	L.B.Arguimbau
715 Direct-Current Amplifier (M)	Feb 1939	J.K.Clapp
716-A Capacitance Bridge (J)	Dec 1936	R.F.Field (-B 4/42)
716-B "	Apr 1942	R.F.Field
716-C Capacitance Br	Apr 1947	R.F.Field & I.G.Easton
716-P2 Guard Circuit	Mar 1940	R.F.Field
716-P4 Guard Circuit	Aug 1952	I.G.Easton
716-CS1 Capacitance Br. 1Mc	Feb 1952	I.G.Easton
717 Plain Dial (G)		
720 Hetrodyne Frequency Meter (L,M)	July/ Aug 1945	E. Karplus
721 Coil Comparator	Aug/Sept 1937	W.N.Tuttle
722 Precision Capacitor (J)	Jan 1936	Field?
722-D	Feb 1937	C.E.Worthen
<b>722-N H-F version</b>	<b>Oct/Nov 1938</b>	<b>D.B.Sinclair</b>
723 Vacuum-Tube Fork (M)	Oct 1941	W.N.Tuttle
724 Precision Wavemeter (J)	Mar 1936	A.G.Bosquet
725 Color Comparator (J)	Aug 1935	C.T.Burke
<b>726 Vacuum-Tube Voltmeter (J)</b>	<b>5/37</b>	<b>W.N.Tuttle (7/38 D.B.Sinclair)</b>
727 Vacuum-Tube Voltmeter	May 1942	W.N.Tuttle
728 Vacuum Tube Voltmeter (battery)	Dec 1944	A.G.Bosquet
729 Megohmmeter (M) Battery Operated	Jul 1940	W.N.Tuttle
730 Transmission Measuring Set (J)	Jan 1935	L.B.Arguimbau (6/35)
731 Modulation Monitor (J)	Jan 1935	"
732 Disatortion & Noise Meter (J)	Feb 1935	L.B.Arguimbau
733 Oscillator (J)	Feb 1935	"
736 Wave Analyzer (M)	Dec 1938	L.B.Arguimbau
738 Insert Terminal (G)		
739 Logarithmic Condenser	Aug/Sept 1938	A.G.Bosquet
740 Capacitance Bridge (M)		(-B 6/38 L.E.Packard)
741-G Transformer	Jul 1935	A.E.Theissen
747 Temperature Control Box (G)		
755-A Condenser	Aug 1939	
<b>755-AS1 Susceptance Variation Circuit</b>	<b>Sep/Oct 1940</b>	<b>R.F.Field</b>
756 Variable Air Condenser (G)		
<b>757-A Ultra-High-Frequency Oscillator</b>	<b>Aug 1941</b>	<b>A. Peterson</b>
<b>757-P1 Power Supply</b>		
<b>758 Wavemeter (M)</b>	<b>Aug 1940</b>	<b>E. Karplus</b>
<b>759 Sound-Level Meter (J)</b>	<b>Dec 1937</b>	<b>L.E.Packard</b>
760 Sound Analyzer	Feb 1939	H.H.Scott
761-A Vibration Meter	Jun 1941	H.H.Scott
762 Vibration Analyzer (M)		
769 Square-Wave Generator	Dec 1939	L.B.Arguimbau
770 Cathode Ray Oscilloscope	see Theissen p. 40	Sinclair Not marketed
774 Coaxial Terminals	Apr 1941	D.B.Sinclair
775-A Frequency-Limit Monitor	Feb 1938	D.B.Sinclair
776 Patch Cord		
777-Q1,Q2,Q4 Adaptor		
783 Power Output Meter (M)	Jan 1942	
804 Standard-Signal Generator	Nov 1939	(-B 2/41 M.T.Smith)
<b>805 Standard-Signal Generator</b>	<b>Apr 1943</b>	<b>C.C.Cady</b>
813 Oscillator	May 1935	H.W.Lamson
814 Amplifier and 814-P1 filter	Jan 1938	
<b>815 Tuning Fork</b>	<b>May 1936</b>	

816 Vacuum Tube Prec. Fork	(last 1948)	
821 Twin T Impedance-Measuring Network	Jan 1941	D.B.Sinclair
829 Decade Attenuator Unit (M)	Dec 1949	H.W.Lamson
<b>830 Filter (J)</b>		<b>830-R</b>
834 Electronic Frequency Meter	Dec1935	J.K.Clapp
838 Test Leads, Clips etc	Jul 1952	H.C.Littlejohn
846,847,848 Variable Air Capacitors	(last 1948)	
857 U-H-F-Oscillator	Nov 1944	E.Karplus
869 Pulse Generator (M)	Jan/Feb 1944	H.H.Scott & C.A.Cady
<b>874 Coaxial Elements</b>	<b>Jan 1950</b>	<b>W.R.Thurston (EK)</b>
874-LB Slotted Line	Nov 1950	R.A.Soderman & W.M.Hague
874-LBA Slotted Line	Dec 1954	R.A.Soderman
874-MB Slotted-Line Motor Drive	Apr 1955	R.A.Soderman
874-MR Mixer	May 1950	E. Karplus
880-DCA, G6,G10 Attenuators		(last 1977)
900 Coaxial Equipment	Nov 1963	J. Zorzy
901/902/903/904/905/906 Dials (M)		
907/908 Gear Drives (M)	May 1955	
913-A Beat-Frequency Oscillator	Jul 1942	H.H.Scott
916-A Radio-Frequency Bridge (M)	Aug 1942	D.B.Sinclair see also Proc.IRE Nov 1940 v.28 no.11 pp.497-503
916-AL Radio-Frequency Br.	Mar 1949	R.A.Soderman
<b>920 Switch (last 1948)</b>		
938 Binding Posts (M)	Jun/Jul 1952	H.C.Littlejohn
940 Decade Inductor Unit	July 1949	H.W.Lamson
941 Toroidal Transformer (M)	Sep 1950	H.W.Lamson
942 Output Transformer (O)	Nov 1951	H.W.Lamson
970 Dial		
<b>971-977 Potentiometers</b>	<b>Jan 1955</b>	<b>H.M.Wilson 971, 973</b>
980 Decade Capacitor Units		
<b>1000-P3,4,5,P6 Voltage Divider, Dummy Antenna, Transformer &amp; Crystal Diode</b>		
1001 Standard-Signal Generator (N)	Sept 1949	A.G.Bosquet
<b>1003 Standard-Signal Generator</b>	<b>Jul/Aug 1967</b>	<b>R.Altenbach</b>
1021 UHF Standard-Signal Generator	Mar 1950	E.Karplus & E.E Gross
1022-A F-M Standard-Signal Generator	Nov 1949	D.B.Sinclair
1023 Amplitude Modulator (M)	Nov 1949	D.B.Sinclair
<b>1025-A Std Sweep Freq Generator</b>	<b>Jan 1963</b>	<b>W.F.Byers</b>
1026 Standard-Signal Generator	Mar 1967	G.P.McCouch
1061 Frequency Synthesizer		
1062 Frequency Synthesizer	GR Today Aut 1973	
1065 Frequency Synthesizer		
1100 Frequency Standard(L to P)		
1101-A,B Piezo Electric Oacillator		
1102-A Multivibrator & Power Supply		
1103 Synchronometer		
1105 Freq Measuring Equipment (M)	Jun 1958	F.D.Lewis
1106 Frequency Transfer Unit (M)		
1107 Interpolation Oscillator (M)		
1108 Coupling Panel (M)		
1109 Comparison Oscilloscope (M)		
1110 Interpolating Frequency Std (M)		
1112 Standard Frequency Multiplier (P)	Jul 1958	F.D.Lewis
1113-A Standard Frequency Oscillator (Q)	Apr 1961	R.W.Frank, F.D.Lewis & H.P.Stratameyer
1114 Frequency Divider		
<b>1115-B Std-Frequency Oscillator</b>	<b>Jun 1964</b>	<b>H.P.Stratameyer</b>
1116 Emergency Power Supply (P)		-B 4-5/63
1118 Rubidium Frequency Standard	See Freq. Std. :Frank, Stratemeyer, Riley, Never sold	
1120 Frequency Standard (Q)	Apr 1961	Frank, Lewis & Stratameyer
1121-A Frequency & Time Standard	Feb/Mar 1965	
1122 1122 Military Rubidium Physics package	With Collins, 300 produced	
<b>1123-A Digital Synchrometer</b>	<b>Aug 1964</b>	<b>Feb/Mar 1965 D.O.Fisher</b>
1124 Receiver	Mar 1968	D.O.Fisher
1125 Parallel Storage Unit	Mar 1968	D.O.Fisher
1126 Space Rb Clock for Rockwell GPS	Frank, Stratemeyer, Riley etc.	
1130 Digital Time & Freq Meter	May 1961	R.W.Frank & H.T.McAleer
1131-P1 to P5 Counting Units		
1132-A Data Printer		
1133 Frequency Converter	Dec 1962	H.T.McAleer



1134	Analog-to-Digital Converter	Oct 1961	H.P.Stratameyer
1136	Analog-to-Digital Converter	Dec 1963	H.P.Stratameyer
1137	Printer		
1140	Wavemeter (M)		
1141	Audio-Frequency Meter	Feb 1948	M. Gilman Wien Br like 434
1142	Frequency Meter & Discriminator	Jan/Feb 1961	C.G.Chitorous (MCH)
1143-A	Frequency Measuring Assembly	Sep 1965	
1144-A	100Mc Digital Frequency Meter	Sep 1965	
1150	Digital Frequency Meter	Apr 1962	J.K.Skilling & R.W.Frank
1151	Digital Time & Freq Meter	Jun 1963	R.W.Frank
1153-A	Digital Frequency Meter	Sep 1965	S.Bentzen & D.S.Nixon
1156-A	Decade Scaller (10:1)	Sept 1965	D.S.Nixon
1157-B	Scaler (100:1)	Jul/Aug 1968	(Skilling & Sargent)
1158-9600	Tektronix Probe		
1159	Recipromatic Counter	Jun/Jul 1968	N.L.Westlake & S. Bentzen
1160-RDI-1	Digit Insertion Unit	May 1965	G.H.Lohrer
1161-A	Coherent Decade Freq Synthesizer	Sept 1965	A. Noyes
1162-A	Coherent Decade Freq Synthesizer	Sept 1965	A. Noyes
1163-A	Coherent Decade Freq Synthesizer	Nov/Dec 1965	A. Noyes
1164-A	Coherent Decade Freq Synthesizer	Sep 1966	W.F.Byers
1165-A	Coherent Decade Freq Synthesizer	Nov/Dec 1965	
1168-A	Coherent Decade Freq Synthesizer	Sep 1966	
1169	Resolution Kit		
1170	F-M Frequency Monitor (O)		
1176	Frequency Meter (O)		
1181-A	A-M Frequency Deviation Meter		
1181-AT	Color Subcarrier Monitor (O)	Apr 1954	W.R.Saylor (-B 4/68)
1183	T-A Television Trasmmitter Monitor	Apr 1958	
1184	TV Transmitter Monitor (O)	Sept 1956	C.A.Cady
<b>1190</b>	<b>Quartz Bar</b>		
1191	Counter	Jan/Feb 1969	(-Z 11/68 H.T.McAleer)
1192	Counter	Jul/Aug 1969	S.Bentzen
1192-B	Counter	Oct-Dec 1970	
1201	Unit Regulated Power Supply	Aug/Sep 1958	
1202	Unit Vibrator Supply (O)	Feb 1955	A.G.Bosquet
1203	Unit Power Supply	Jul 1951	(-B 7/57)
1204	Unit Variable Power Supply	Jul 1951	
1205-A	Unit Power Supply	Nov 1948	Unsigned
1205-B	Adjustable Regulated Power Supply	Mar 1959	(M.C.Holtje)
1206-A	Unit Amplifier	Nov 1948	unsigned
1206-B	Unit Amplifier	Nov 1953	H.P.Hall (DBS, APGP)
1207-A	Unit Oscillator	Nov 1948	Unsigned LC Osc
1208	Unit Oscillator	May 1950	E.Karplus (-B 4/55, -C 6/65)
1209	Unit Oscillator	May 1950	E.Karplus " "
1210-A	Unit Oscillator		
1210-B	Unit R-C Oscillator	May 1955	Bosquet, Peterson & Sinclair
1210-C	Unit R-C Oscillator	Apr 1958	
<b>1211</b>	<b>Unit Oscillator</b>	<b>Sep 1053</b>	<b>A.G/Bosquet (-C 6/65)</b>
1212	Unit Null Detector	Feb 1953	R.B.Richmond
1212-P1	High-Pass Filter	Feb 1953	
1212-P2	One-Megacycle Filter	Jan 1956	H.P.Hall
1212-P3	RF Mixer	Dec 1963	J. Zorzy
1213-A	Unit Crystal Oscillator	Feb 1952	R.B.Richmond (-C 6/56 RWF & FDL)
1213-D	Unit Time/Freq Calibrator	Oct 1959	R.W.Frank & H.P.Stratameyer
1214	Unit Oscillator	Jul 1951	(-E 2/59)
1215	Unit Oscillator	Jan 1953	A.G.Bosquet (-B 4/55, -C 6/65)
1216	Unit IF Amplifier	May 1954	R.A.Soderman
1217-A	Unit Pulser	Mar 1954	R.W.Frank (-B 2/62, -C 12/64)
1218	Unit Oscillator	Feb 1955	E.Karplus (-B 7/65 R.W.Hartley)
1219	Unit Pulse Amplifier	Jul 1955	R.W.Frank
1220	Unit Klystron Oscillator	Mar 1954	B. O'Brien & R.A.Soderman
<b>1230</b>	<b>D-C Amplifier &amp; Electrometer</b>	<b>Mar 1956</b>	<b>A.G.Bosquet</b>
1231-B	Amplifier and Null Detector	Feb 1948	W.R.Thurston
<b>1232</b>	<b>Tuned Amplifier and Null Detector</b>	<b>July 1961</b>	<b>A.E.Sanderson</b>
1242-P1	RF Mixer	Dec 1963	J. Zorzy
1232-P2	Preamp	Feb 1967	H.P. Hall
1233	Power Amplifier	Jan 1951	W.F.Byers
1234	Standing-Wave Meter	Feb 1968	M. Khazam

1235-DNT Hetrodyne Detector		
1236-A I-F Amplifier	Jul/Aug 1967	M. Khazam
1237 UHF/VHF Preamplifier		
1238 Detector		(D.Abenaim)
1240-A Bridge Oscillator/Detector	Jun 1964	
1241 Hetrodyne Detectors		
1260-A Variac Rectifier	Mar 1946	E. E. Gross
1261-A Power Supply, (O)	Mar 1946	E. E. Gross
1262 Power Supply (O)	Mar 1952	E. E. Gross (see 1551-A)
<b>1263-A Amplitude-Regulating Power Supply</b>	<b>Apr 1955</b>	<b>W. F. Byers (-B 7/61)</b>
1264-A Modulating Power Supply	Mar 1961	G. P. McCouch
1265-A Adjustable DC Power Supply	May 1962	H. P. Hall
1266-A AC Power Source	May 1962	G. Smiley
1267 Unit Power Supply	Aug 1963	M. C. Holtje
1268 Automatic Battery Charger	Apr/May 1963	
1269 Unit Regulated Power Supply	Aug 1963	M. C. Holtje
1300 Beat-Frequency Oscillator	Feb 1960	C. A. Woodward Jr.
1301-A Low-Distortion Oscillator	Jun 1949	F. D. Lewis
1302 Oscillator	Nov 1947	C. C. Cady Wien Br.
1303 Two-Signal Audio Oscillator	Aug 1950	A. Peterson
1304 Beat-Frequency Oscillator	Catalog M Oct 1951	(-B 6/54 CAW)
1305 Low-Frequency Oscillator	Aug/Sep 1959	G. Smiley
1307 Transistor Oscillator	Aug 1954	A. Peterson
1308 Audio Oscilator & Power Amp.	Jan 1964	R. G. Fulks
1309 Low-Distortion Oscillator	Mar 1944	R. E. Owen
<b>1310-A Oscillator</b>	<b>Aug 1965</b>	<b>R. E. Owen</b>
1311-A Audio Oscillator	Aug/Sep 1962	R. G. Fulks
1312 Decade Oscillator	Jan 1968	R. E. Owen
1313-A Oscillator	Feb 1967	R. E. Owen
1316 Oscillator (Cat 78)		
1330 Bridge Oscillator	Dec 1950	A. G. Bosquet
1340 Pulser	Nov/Dec 1968	J. K. Skilling
1346 Audio-Frequency Microvolter	Aug/Sep 1968	R. E. Owen
1350-A, AqI Generator Recorder Assembly		
1360-A Microwave Oscillator	Jan/Feb 1962	Per Bergstad
1361-A UHF Oscillator	Mar 1961	G. P. McCouch
1362 UHF Oscillator	Jun/Jul 1968	G. P. McCouch
1363 VHF Oscillator	Jun/Jul 1968	G. P. McCouch
1381 Random-Noise Generator	Jan 1968	J. J. Faran Jr.
1382 Random-Noise Generator	Jan 1968	J. J. Faran Jr.
1383 Random-Noise Generator		(J. J. Faran Jr.)
1390-A Random-Noise Generator	Dec 1951	A. P. G. Peterson
1391 Pulse, Sweep & Time Generator	May 1956	R. W. Frank (-B2/59)
1392 Time-Delay Gererator	Dec 1958	R. W. Frank
1394-A High-Rate Pulse Generator	Jul 1966	J. K. Skilling
1395 Modular Pulse Generator	May 1965	G. R. Partridge
1396-A Tone-Burst Geberator	May 1964, -B 10/68	J. K. Skilling
1397-A Pulse Amplifier		
1398-A, P1 Pulse Generator & DC compensator		
1399 Digital Divider, Period & Delay Generator	Jan/Feb 1969	R. W. Frank
<b>1401 Capacitor</b>		
<b>1403 Standard Air Capacitor</b>	<b>Aug/Sept 1959</b>	<b>I. G. Easton</b>
1404 Standard Capacitor	Aug 1963	J. F. Hersh (-C 8/66/)
<b>1405 Coaxial Capacitance Standards</b>	<b>May 1968</b>	<b>R. Orr &amp; J. Zorzy</b>
1406 Coaxial Capacitance Standards	Sep 1967	R. Orr
<b>1407 Coaxial Capacitance Standards</b>	<b>May 1968</b>	<b>R. Orr &amp; J. Zorzy -D</b>
1408 Reference Standard Capacitors	Oct-Dec 1970	D. Abenaim & J. F. Hersh
<b>1408-B " oil bath version</b>		
<b>1409 Standard Capacitors</b>	<b>Jul 1957</b>	<b>P. K. McElroy</b>
<b>1412-BC Decade Cpacitor</b>	<b>Aug 1960</b>	<b>R. W. Orr</b>
1413 Precision Decade Capacitor	Mar/Jun 1969	unsigned (R. W. Orr)
<b>1417 Four-Terminal Capaitance Standard</b>	<b>Catalog '78</b>	<b>H. P. Hall</b>
<b>1419 Decade Capacitor</b>	<b>Jul 1956</b>	<b>(-K 11/57)</b>
<b>1420 Variable Air Capacitor</b>	<b>Jul 1956</b>	<b>H. M. Wilson</b>
<b>1421 Variable Air Capacitors</b>	<b>Nov 1958</b>	
<b>1422 Precision Capacitors</b>	<b>Aug 1961</b>	<b>P. K. McElroy</b>
<b>1423-A Precision Decade Capacitor</b>	<b>Jun 1961</b>	<b>I. G. Easton</b>
<b>1424-A Standard Polystyrene Decade Capacitor</b>	<b>Jun 1961</b>	<b>P. K. McElroy (10uF)</b>

1425-A Standard Polystyrene Decade Capacitor	Jul 1965	P.K.McElroy (100uF)	
1426 Four-Terminal Capacitance Standard	Jan 1968	H.P.Hall	
1427 Variable Air Capacitor (M)			
1428 Variable Air Capacitor (M)			
1429-A Fuel Gage Tester (MD-2)	Jan 1960	Unsigned (designed by PKM)	
<b>1432 Decade Resistors</b>	<b>June 1951</b>	<b>I.G.Easton (-X Sept 1961)</b>	
<b>1433 Decade Resistors</b>	<b>Nov/Dec 1968</b>	<b>H.P.Hall</b>	
1434 Decade Resistors	Oct 1965	H.P.Hall	
1435 Programmable Decade Resistor	Jul/Sep 1970	(Peter Gray IV)	
1436 Lever Switch Decade Resistor		W.J.Bastanier	
<b>1440 Standard Resistors</b>	<b>Oct 1962</b>	<b>W.J.Bastanier</b>	
1441 " "	" "	" "	
1442 Coaxial Resistance Standards	Apr 1969	R.W.Orr	
<b>1444-A,-B Reference Resistance Standard</b>	<b>Mar/June 1969</b>	<b>W.J.Bastanier</b>	
1450 Decade Attenuators	Dec 1949	H.W.Lamson	
1452 Programmable Attenuator	Nov/Dec 1970	Unsigned (G.H.Lohrer)	
1454 Decade Voltage Divider	Aug 1955	I.G.Easton	
<b>1455 Decade Voltage Dividers</b>	<b>Apr 1967</b>	<b>H.P.Hall</b>	
<b>1481 Standard Inductors</b>	<b>Dec 1950</b>	<b>H.W.Lamson -B</b>	
<b>1482 Standard Inductors</b>	<b>Nov 1952</b>	<b>H.W.Lamson (7/57)</b>	
1490 Decade Inductor	Jul 1949	H.W.Lamson (5/58)	
<b>1491 Decade Inductor</b>	<b>Mar/Apr 1969</b>	<b>Unsigned</b>	
<b>1493 Precision Decade Transformer</b>	<b>Apr 1967</b>	<b>G.X.Smiley-</b>	
1500 Counting-Rate Meter	Jul/Aug 1947	(-B 9/50 AGB)	
1501 Light Meter (M)	Oct 1950		
1510-A Digital-to-Graphic Recording	Assem. Sept 1965	(1136 & 1521)	
1521-A Graphic Level Recorder	Jun 1959	M.C.Holtje & M.J.Fitzmorris	
1522 Preamplifier etc			
1523 Graphic Level Recorder (Cat 78)			
1525-A Data Recorder	Oct 1966	A.P.G.Peterson (5/45)	
1530 Microflash (M)			
<b>1531 Strobotac</b>	<b>Sept 1960</b>	<b>M.J. Fitzmorris (MCH)</b>	<b>-AB</b>
1532 Strobolume (M)			
1533 High Speed Motion Picture Camera			
1534 Polariscope	Jun 1950	G. Smiley	
1535 Contactor			
1536 Photoelectric Pickoff	Oct 1962		
1537-A Photoelectric Pickoff	Apr 1966		
1538-A Strobotac Electronic Stroboscope	Apr 1966	M.C.Holtje	
<b>1539 Stroboslave</b>	<b>Apr 1966</b>	<b>M.C.Holtje</b>	
1540 Strobolume	Sep/Oct 1969	C.E.Miller	
1541 Multiflash Generator	Jul/Sep 1970	(C.E.Miller & W.F.Rogers)	
1542 Stroboscope	Oct/Dec 1970	C.E.Miller (-B Sum '72)	
1543 "	GR Today Summ 1972		
1544 "	"		
1545 GR France Strobe			
1547 GR France Strobe			
1550 Octave-Band Analyzer (M)			
1551 Sound-Level Meter	Mar 1952	E.E.Gross (6/57,-B 11/58,-C 7/65)	
<b>1552 Sound-Level Calibrator</b>	<b>Dec 1949</b>	<b>E.E.Gross</b>	
1553 Vibration Meter	Nov 1961	E.E.Gross	
<b>1554 Sound &amp; Vibration Analyzer</b>	<b>Dec 1959</b>	<b>J.J.Faran Jr.</b>	
<b>1555 Sound Survey Meter (M)</b>	<b>Apr 1952</b>	<b>A.P.G. Peterson</b>	
1556 Impact Noise Analyzer	Feb 1956	A.P.G.Peterson	1557 1557
Vibration Calibrator			
1558 Octave-Band Noise Analyzer	Oct 1962	W.R.Kundert (-BP 11/66)	
1559 Microphone Reciprocity Calibrator	Apr/May 1963	B.A.Bonk	
1560 Microphone, Case, Tripod etc (P)			
<b>1561 Precision Sound-Level Meter</b>	<b>Apr 1968</b>	<b>C.A.Woodward &amp; E.E.Gross</b>	
<b>1562-A Sound-Level Calibrator</b>	<b>May/June 1967</b>	<b>B.A.Bonk</b>	
1563 Sound Level Meter			
1564 Sound & Vibration Analyzer	Sep/Oct 1963	W.R.Kundert	
<b>1565 Sound Level Meter</b>			
1565-Z Audio Calibration Kit	Apr 1968		
1566 Multichannel Amplifier (Cat 78)			
1567 Sound-Level Calibrator			
1568-A Wave Analyzer	Sep 1966	W.R.Kundert	
1569 Automatic Level Regulator	Apr 1968	W.R.Kundert & C.A.Woodward	

1570 Automatic Voltage Regulator	Jul 1954	M.C.Holtje
1571-A Line-Voltage Regulator	Jan 1956	C.E.Miller
1581-A Line-Voltage Regulator	Jan 1966	C.E.Miller
1582-A Line-Voltage Regulator	Jan 1966	C.E.Miller
1583 Three-Phase Line Voltage Reg.	Oct 1967	
1590 Remote Control	Sep 1961	M.C.Holtje & C.A.Tashijan
1591-A Automatic Line-Voltage Reg.	Oct 1967	C. Chitouras
1592-A Automatic Line-Voltage Reg.	Oct 1967	C. Chitouras
1601 VHF Bridge P	Feb 1950	R.A.Soderman
1602 UHF Admittance Meter MP	May 1950	W.R.Thurston
<b>1603 Z-Y Bridge</b>	<b>Jul 1955</b>	<b>I.G.Easton</b>
1604-A Comparison Bridge	Feb 1954	M.C.Holtje (-B 2/54)
1605 Impedance Comparator P	Apr 1954	M.C.Holtje & H.P.Hall (Easton
<b>1606-A R-F Bridge (RAS) P</b>	<b>Jun 1955</b>	<b>R.A.Soderman (-B 9/67)</b>
1607 Transfer-Function and Immittance Meter	Mar 1958	W.R.Thurston & R.A.Soderman
<b>1608 Impedance Bridge</b>	<b>Mar 1962</b>	<b>H.P.Hall</b>
1609 Precision UHF Bridge	Nov-Dec 1967	J.F. Gilmore
1610-A Capacitance Measurement Assembly	Dec 1953	(IGE., -AK 2/57
1611-A Capacitance Test Bridge	July 1948	I.G.Easton (-B 2/58)
<b>1612-A R-F Capacitance Meter</b>	<b>Nov 1948</b>	<b>W.F.Byers</b>
1612-AL "The Type 1612-AL Capacitance Meter"	Feb 1951	P.K. McElroy
1613-A Capacitance Bridge (P-582)	Feb 1958	H.P.Hall (P.K.McElroy)
1614 Capacitance Bridge	Feb 1946	H.R.Lamson
<b>1615-A Capacitance Bridge</b>	<b>April 1962</b>	<b>J.F.Hersh</b>
1616 Precision Capacitance Bridge	Oct/Dec 1970	D. Abenaim & J.F.Hersh
<b>1617-A Capacitance Bridge</b>	<b>Jun 1966</b>	<b>H.P.Hall</b>
1620 Cap. Meas. Ass. (1615,1232,1311)	See 1615	
1621 Precision Cap. Meas. Ass. (1616,1238,1316)	See 1616	
1630 Induct. Meas. Ass. (1633,1265,1308)	see 1633	
1631 Inductance Bridge	Feb 1946	H.R.Lamson see 1614
1632A Inductance Bridge	Nov 1959	J.F.Hersh
1633 Incremental Inductance Bridge	May 1962	H.P.Hall & R.G.Fulks
1633-Pl Range Extension Unit		
1640 Slotted Line Recorder	Jan 1965	A.E.Sanderson
1641 Sweep Freq. Reflectometer	Mar/Apr 1969	MacKenzie, Gilmore & Khazam
1644 Megohm Bridge	July 1964	H.P.Hall
<b>1650-A Impedance Bridge</b>	<b>Mar 1959</b>	<b>H.P.Hall</b>
1650-B Universal Impedance Bridge	May 1968	C.D. Havener
1651 Bolometer Bridge	Jul 1950	R.A.Soderman
1652 Resistance Limit Bridge	Jan 1952	W.M.Hague Jr.
1654 Impedance Comparator	May/June 1969	R. K. Leong
1655 (Semi-Auto IMP. Br. (CDH) never sold)		
1656 Impedance Bridge	Mar/June 1970	(H.P.Hall, unsigned)
<b>1657 Digibridge Cat '78</b>	<b>1976</b>	(HPH, M. Gipe, R.Sullivan,)
1658 " Cat '78	1977	"
1659 RLC Digibridge		
1660 Precision Inductance Meas. Assem. (1632,1311,1232)		
1661-A Vacuum Tube Bridge	Feb 1959,	A.G.Bosquet (-B 8/61)
1662 Resistance Comparator	Nov/Dec 1969	R.K.Leong
<b>1666 Resistance Bridge 1986 RLC Catalog GR Today Autumn 1972 (HPH)</b>		
1670 Magnetic Test Set	Aug 1948	H.W.Lamson
1671 Coaxial Cable Attenuation Meas. Kit	Dec 1957	(WRT)
1672 Digital Control Unit		(RGF) bridge part of 1680
1673 Automatic Capacitance Bridge		(RGF) bridge part of 1680
1674 Auto. Digital Comparator	June/July 1968	(RKL) (part of 1681)
1680 Automatic Capacitance Bridge Assem.	Apr 1965	R.G.Fulks
1681 Auto. Impedance Comparator System	Jun/Jul 1968	R.K. Leong
1682 Auto. Capacitance Bridge (1Mc)	Nov/Dec 1969	R.F. Sette
1683 Automatic RLC Bridge	Mar/June 1970	T.J.Coughlin
1684 Digital Impedance Meter Cat 74		(TJC)
1685 Digital Impedance Meter	1973	(HPH)
1686 Digital Capacitance Meter		(HPH)
1687-A 1 MHz Digibridge	Catalog '78	(WFB, HPH & others)
1687-B 1 MHz Digibridge	1986 RLC Catalog	
<b>1688 Precision LC Digibridge</b>	<b>Ref?</b>	<b>(RCS, HPH &amp; others)</b>
1689 Precision Digibridge	1986 RLC Catalog	(RCS, HPH & others)
1689-9604 Calibration Kit	1986 RLC Catalog	
1690 Dielectric Sample Holder		

1691	Capacitance Test Fixture	Oct 1955	I.G.Easton	
1692	RLC Digibridge			
1693	RLC Digibridge			
1700	Variac Speed Control	Apr 1949	W.N.Tuttle (-B 5/51)	
1701	Variac Speed Control	Oct 1949		
1702	Variac Speed Control	Dec 1953	W.N.Tuttle	
1703	Variac Speed Control	"		
1704	Variac Speed Control	Dec 1953		
1705	Variac Speed Control	"		
1710	Precision RF Network Analyzer	GR Today Summ 1972	C.E.Gorss	
1730	Linear Circuit Tester	GR Today Mar 1974	(R.K.Leong)	
1731	Socket Adaptor Sets (for 1730)			
1732	Digital Circuit Tester			
1735	Dig IC Tester			
1740	Linear IC Tester			
1742	Digital IC Tester			
1744	Digital IC Tester			
1750	Sweep Drive	Apr 1955	E.Karplus	
1770-A	Scanner System	Nov/Dec 1966	H.T.McAleer & R.F.Sette	
1772	Switch Assemblies			
1781-A	Digital Limit Comparator	Nov/Dec 1966		
1782	Analog Limit Comparator	May/Jun 1969	R.K.Leong	
1783	Digital Limit Comparator	Aug/Sep 1968		
1784	Multiple Limit Comparator			
1785	Printer			
1790	Logic-Circuit Tester	Jan/Feb 1970	(Cvitkovich, Fichtenbaum etc)	
1791	Card-Punch Coupler			
1792	Logic-Circuit Analyzer	GR Today Spring 1973		
1793	Logoic Circuit Tester			
1795	Logic Test System			
1796	Digital/Analog Test System			
1797	Programming Station			
1799	Digital/Analog Test System			
1800	Vacuum-Tube Voltmeter M	Sept 1946	C.A.Woorward (& DBS?)	?
1802	Crystal Voltmeter M	Oct 1946	A.P.G. Peterson	
1803	Vacuum-Tube Voltmeter M	Apr 1950	C.A.Woodward(-B 3/55)	
1805				
<b>1806</b>	<b>Electronic Voltmeter</b>	Jul 1963	J.J.Faran Jr.	
<del>1807</del>	<del>D-C Microvoltmeter/Nanoammeter</del>	<del>Aug/Sep 1968</del>	<del>K.G.Balekdjian</del>	
1808	AC Millivoltmeter	Nov/Dec 1969	K.G.Balekdjian	
1820	Digital Voltmeter	May 1968	K.G.Balekdjian	
1822	Digital Voltmeter Calibrator	Mar/Apr 1969	R.P.Anderson	
1840	Power output Meter	Feb 1962	G.Smiley	
1861-A	Megohmmeter	Nov/Dec 1945	W.N.Tuttle	
1862-A	Megohmmeter	Nov 1951	A.G.Bosquet	
1862-B	Megohmmeter	Dec 1954	A.G.Bosquet	
1862-C	Megohmmeter	Jul 1963	H.P.Hall	
1863-A	Megohmmeter	Mar/Apr 1969	H.P.Hall (W.Blake)	
<b>1864-A</b>	<b>Megohmmeter</b>	<b>Mar/Apr 1969</b>	<b>H.P.Hall (W.Blake)</b>	
1865	Megohmmeter	designed by QuadTech		
1900-A	Wave Analyzer	Apr 1964	A.P.G.Peterson	
1909	1/3 Octave Real-Time Analyzer	a 1972	G. Partridge & R.W. Frank	
1910	Recording Wave Analyzer	Apr 1964	A.P.G.Peterson	
1911-A	Recording Sound & Vibration Ana.	Sep 1964	M.W.Basch	
1912	Third-OctaveRecording Analyzer (U)			
1913	Recording Wave Analyzer			
1920	See P-1920 below			
1921	Real-Time Analyzer	May/Jun 1969	Kundert, LaPointe & Partridge	
1923	Vibration Control System	GR Today Sum 1972	Time Data Div.	
1925	Multifilter	Oct 1968	W.R.Kundert	
1926	Multichannel RMS Detector			
<b>1931</b>	<b>Modulation Meter (M)</b>		<b>-B 4/58</b>	
1932-A	Distortion Meter	Jun 1949	F.D.Lewis	
1933	Precision Sound Level Meter & Analyzer Sys.	See GR Today Mar 1974		
1934	Noise Monitor			
1935	Cassette Data Recorder			
1937	Audiometer	GR Today Mar 1974		
1938	Sound Shelter	Cat 73		

1939 Audiometric Examination RoomR Cat 73  
 1940 Power Supply  
 1944 Sound Exposure Meter GR Today Sum 1972  
 1945 Community Noise Analyzer  
 1951 Filter (O) Feb 1953  
 1952 Universal Filter Apr 1968 W.R.Kundert  
 1954 Noise Dosimeter  
 1961 Electret Condenser Microphone (1")  
 1962 Electret Condenser Microphone (1/2")  
 1963 Electret Condenser Microphone (1/4")  
 1971 Ceramic Microphone (1")  
 1972 1/2" Ceramic Microphone & Adaptor  
 1981 Precision Sound-Level Meter/Sets/System  
 1982 Precision Sound-Level Meter & Analyzer System  
 1983 Sound-Level Meter  
 1984 Sound Level Meter  
 1985 DC Recorder  
 1986 Carrying Case  
 1987 MiniCal Sound Level Calibrator  
 1988 Random Mike etc  
 1995 Real Time Analyzer  
 2200 Multi-Station Test System (Cat 73)  
 2210-A Analog Circuit System GR Today, Spring 1973  
 2220 Bug Hound (M. Fichtenbaum)  
 2230 Passive Test System (W.Kabele, others)  
 2240 Resistance Anodize Trim System (RATS) GR Today Sum 1972 (M.Holtje)  
 2250 Functional Laser Trim System GR Today Mar 1974  
 2260 Automatic R-F Network Analyzer Sys. GR Today Spr 1973  
 2270 In-Circuit/Functional Test System Cat 78  
 2275 Board Test Workstation  
 2280  
 2283 1992  
 2284 1992  
 2290-9259 Automatic Component-Test System Cat 73  
 2295-8158 Bias Supply May/June 1969  
 2295-9349 Resistance Anodize Trimmer "MimiRATS" Cat 73  
 2512 Spectrum Analyzer  
 2515 FFT Analyzer  
 2610 Universal Field Tester (from SPD. Pheonix+  
 2620 Field Maintenance Tester  
 2750  
 2995-0158 Bias Supply  
 GR16 STI Chip Tester  
 GR18 STI Chip Tester  
 GR1000 Tester Geneva family  
 GR9000 1991 Geneva, VXIbus Tester  
 (More New Test Systems)  
 FDS 2000 GR & Ford

Listed By Letter:

**BC-14A Radio Receiving Set, USA Signal Corp**

BC 15A Radio Transmitter, 1918

**S.C.R 112 Battalion<->Regiment Set Box 1919 Have photo**

C.A.G. Wavemeter "Made for Nvy Department, BU OF S.E.

C-10 Secondary Frequency Standard Jan/Feb 1934

C-21-H Primary Frequency Standard Jan/Feb 1934, Jun 1935

CAP-22 Three-Wire Cord Apr 1962

CGR 44 Portable Signal Gen for USCG museum has manual

DNT Detector Assemblies May 1954 R.A.Soderman

DNT-2 " Mar 1955 R.A.Soderman

DNT-5,-6,-7 " Jun 1965

FR-36/U Het. Freq. Meter & Cal

GRX-306 Kelvin Bridge, used in lab.

GRX-308 Transformer Divider, 10 steps to check 1493 dividers

GRX-309 Hi Meg R Stds

GRX-310 Exp Null Detector (pre 1232)

GRX-311 Two-Stage Transformer to measure ac ratio (1493)

GRX-312 High Capacitance Bridge

GRX-401 Standard Resistor non-catalog W. Bastanier  
G-S 1701 Audometer  
G-S 1703 Audiometer  
G-S 1720 Ooadmittance Meter  
GTS-1 TFT-LCD Panel Tester "Looking Glass" 1991-3 (Hall, Pillote, Albertini etc)  
IND-0300/1801 Numerik Indicators Apr 1962  
LR Interpolator (Freq Meter for Navy)  
M-2, M-5 Variac® Autotransformer Jul 1954 G. Smiley  
M-10 Variac® Autotransformer Nov 1954 G. Smiley  
M-2 Variac® Autotransformer Oct 1954 G. Smiley  
MD-1 Fuel Gage Tester see P-579  
MD-2 Fuel Gage Tester see 1429-A military designation TTU-68/E  
P-174-A Power Level Indicator 1929 Museum has manual  
P-199-E Timing Amplifier for Freq. Std.  
P-205 Timing Equipment for USCG " " "  
**P-259 Voltmeter** (donated by Charlie Wenzelberger) " " "  
P-261 Portable Calibrator for USCG  
P-330 Std Signal Generator Museum has manual  
P-349 Signal Generator for USCG Museum has manual  
P-472 Inductance Bridge  
**P-484 Broadcast Dual Mixer**  
P-507 Microflash Sept 1941  
P-521 Receiver, made for National Defense Research Committee GR has Man, HPH has photo  
P-531 Receiver 1000-3000 Mc Has USN tag. Have photo  
P-540 Receiver , P1,P2 &P3 Man Mar 1947 D.B.Sinclair Have Manual  
P-579 Field Variable Capacitance Tester Sept 1955 P.K.McElroy (MD-1 Fuel gage tester)  
P-582 Capacitance Bridge (or 1613) Feb 1958 H.P.Hall (& P.K.McElroy) TTU-24/E  
P-583 Emergency Power Supply Nov 1957 G.Partridge, R.W.Frank  
P-1920 Real-Time Analyzer "Bat Machine" 1965 R.W.Frank, G Partridge  
V-2 Variac® Autotransformer May 1952 G.Smiley  
V-5 Variac® Autotransformer May 1946 G.Smiley  
V-10 Variac® Autotransformer Jul/Aug 1946 G.Smiley  
U-2 Variac® Autotransformer Cat '73 & Cat '78  
**W-5 Variac® Autotransformer Dec 1955**  
W-8 Variac® Autotransformer Apr/May 1963  
W-20 Variac® Autotransformer Aug/Sep 1958  
W-50 Variac® Autotransformer Apr 1957  
X-213A Circular Sweep  
**X 274 Comparison Bridge**

No Type Number:  
Rectangular Potentiometer, made for Harvard Engineering School (ref?)  
Capacitance Unbalance Br. For Cable Testing GR Exp May 1929  
Universal Gain-Loss Set see June 1930 p. 9  
Impedance Comparator in room Feb 1936 J.W.Horton (for human body)  
**2-Section  $\pi$  Type Filters (in room)**  
**Vacuum Tube Voltmeter in room (sloped panel)**  
Model 600M Wrapping Station Cat 73

Made by or with Other Companies:  
Acme Apparatus Co. Transformers Mar 1921, Bull 113&119 May 1921  
Raytheon Rectifier Tube Bltn 924  
P-11, Type 1002A Western Electric Head Phones Bull 901 Jan 1920  
G-S 1701 Audiometer Oct/Dec 1970 R.L.Grason  
G-S 1703 Recording Audiometer  
G-S 1720 Ooadmittance Meter GR Today Aut 1973  
M/S 80 Laser Trim System (Micronetics) see GR Today Autumn 1973, Cat 73  
GR/TEL LCD Tester "Looking Glass" See HPH Papers With Tokyo Electron  
TR-47/APR Test Oscillator Nov 1946 R.A.Soderman Made by Fairchild Camera to GR dwgs  
Spacecraft Atomic Timing System (SATS) for NASA

#### GR Radios & Transmitters

149 Radio Transmitter  
158 Auxiliary Radio Transmitter made for Bureau of Steam Engineering

**BC-14A Radio Receiving Set USA Signal Corps**

**S.C.R. 112 Batttalion Regiment Set Box**

P-521-A Receiver RESTRICTED 300-1000 MC for field strength measurements.

P-540 Receiver A Search receiver for radar countermeasures which covered the freq range of 70-1000Mc. Manufactured by Philco. Navy ARC-1, Air Corps SCB-587

Unidentified battery-operated transmitter HPH has photo (from B. Sargen)

Clapp-Eastham Radios

**HR & HZ 1921**

RADAK R-4 1923

RADAK DD 1925

Catalog Dates and Scanned Formats				P=PDF, W=Word, J=Jpeg, D=DjVu				
A	1916/1917	P	H	1935	W	O	June 1956	J
B	1918	J	J	Sept 1936	W	P	April 1959	J
C	1919	W	K	1939	W	Q	May 1961	J
D*	1921-1927	P,J	K 2 <sup>nd</sup> Ed	1942	J	R	May 1963	J
E	Sept 1928	W	K 3 <sup>rd</sup> Ed	1944	J	S	1965	J
E 2 <sup>nd</sup> Ed	Dec 1928	W	K4th Ed	1945	W	T	Feb 1968	J,D
F	June 1930	W,J	K5th Ed	1946	J	T Supplmt	1969	J
F Pt2	April 1931	W	K Supplmt	1945	J	U	Feb 1970	J
F Pt3	Oct 1931	W	L	1948	W	Cat '73	1973	P
F Suppmts	1931	J	L Supplmt		W	Cat '78	1978	J
G	1932	W	M	Oct 1951	W	RLC Cat	1986	J
G Pt2	Mar 1934	W	N	Jan 1954	W			

\* Catalog D is a collection of Bulletins and Parts Catalogs. Most have been scanned and are available.