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The Scientific Shop

ALBERT B. PORTER

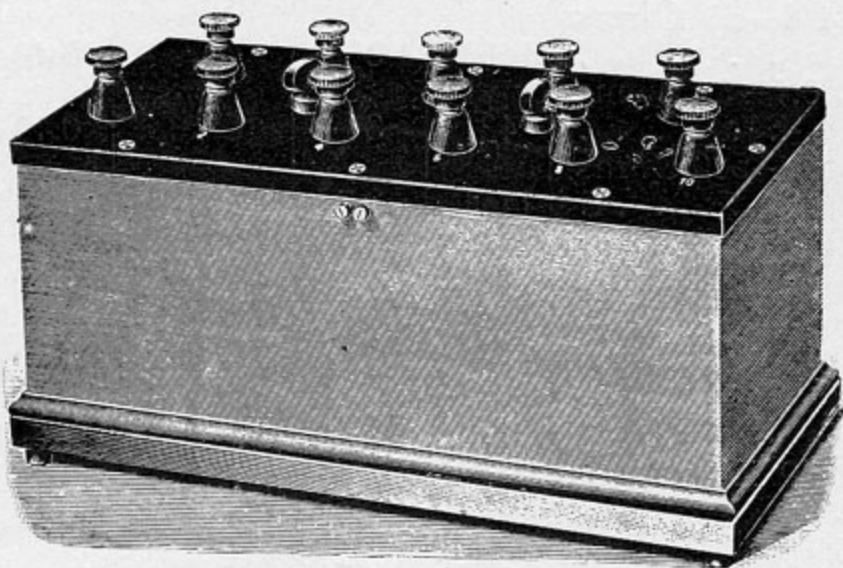
Scientific Instruments

324 Dearborn St., CHICAGO

CIRCULAR 333

JANUARY 1907

Siemens & Halske A.-G.'s Precision Resistances



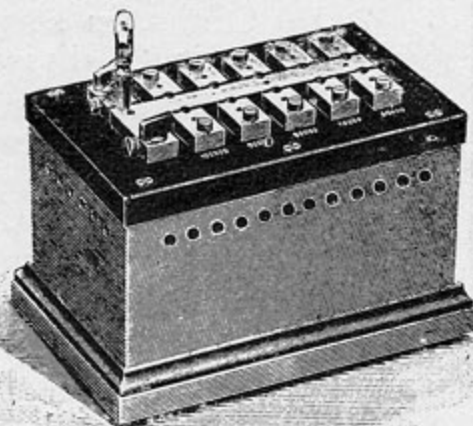
31420
Resistance of 10 Megohms 6775 a



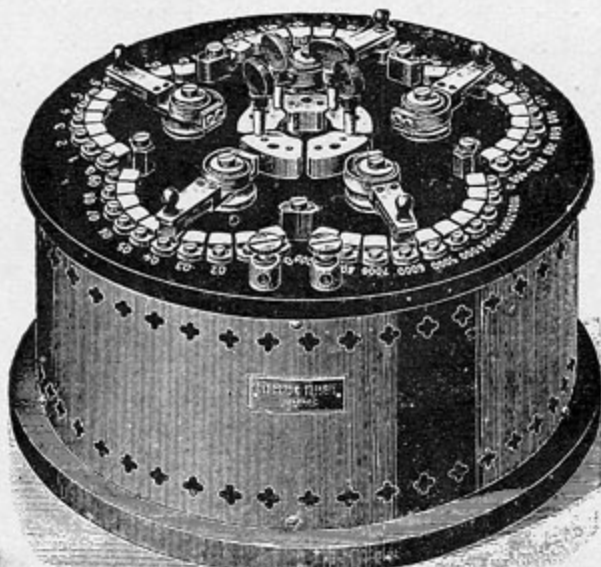
31421
Bridge shunt resistance 6998



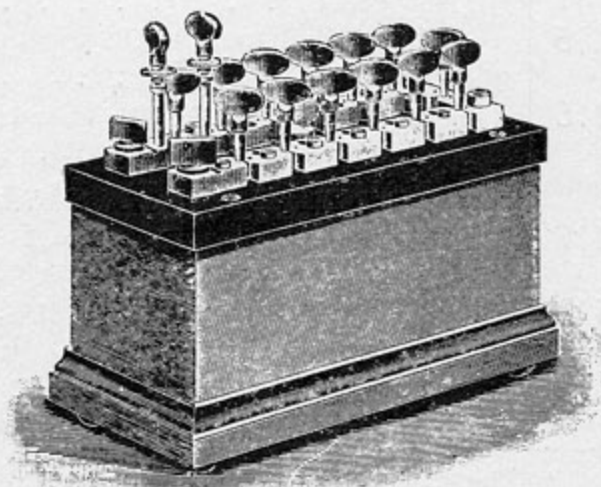
31419
Resistance of 1 Megohm 6775



31413
Decade resistance of 100 Ohms 4570



31422
Switch resistance of 160000 Ohms 6901



31403
Plug resistance of 1000 Ohms 444

Cat. No.	Article	Draw- ing No.	Net Weight Kilos	Price \$	Pack- ing \$
	Plug Resistances: ¹⁾ connected in series, with plug and travelling terminal				
31400	100 Ohms, in steps of 1—50 Ohms in 9 divisions	1452	3	48.00	0.40
31401	100 Ohms, in steps of 0,1—50 Ohms in 13 divisions	431	3	60.00	0.40
31402	1000 Ohms, in steps of 1—500 Ohms in 13 divisions	1431	3,7	62.00	0.50
31403	1000 Ohms, in steps of 0,1—500 Ohms in 17 divisions	444	4,1	78.00	0.50
31404	2000 Ohms, in steps of 0,1—1000 Ohms in 19 divisions	6917	4,5	90.00	0.50
31405	5000 Ohms, in steps of 1—2000 Ohms in 15 divisions	443	4.3	78.00	0.60
31406	5000 Ohms, in steps of 0,1—2000 Ohms in 19 divisions	449	4,3	94.00	0.60
31407	10000 Ohms, in steps of 1—5000 Ohms in 17 divisions	433I	4.5	84.00	0.60
31408	10000 Ohms, in steps of 0,1—5000 Ohms in 21 divisions	446	4.6	94.00	0.60
31409	20000 Ohms, in steps of 0,1—10000 Ohms in 23 divisions	446a	4,7	108.00	0.60
31410	connected in series, accord- ing to Kohlrausch ²⁾ , of 20000 Ohms, in steps of 0,1 up to 10000 Ohms, in 22 divisions, with 5 interrupting plugs.	6999a	5	120.00	0.80
	connected in decade (owing to the small and constant re- sistance of one single large plug these resistances are especially adapted for accurate work)				
31411	1 Ohm in 10 steps of 0,1 Ohm each	4570	3	48.00	0.40
31412	10 Ohms in 10 steps of 1 Ohm each	4570	3	46.00	0.40
31413	100 Ohms in 10 steps of 10 Ohms each	4570	3	46.00	0.40
31414	1000 Ohms in 10 steps of 100 Ohms each	4570	3	47.25	0.40
31415	10000 Ohms in 10 steps of 1000 Ohms each	4570	3	54.00	0.40
31416	100000 Ohms in 10 steps of 10000 Ohms each	4570	3,2	76.00	0.40
	Comparison Resistances:				
31417	100000 Ohms, without subdivision for 150 Volts	2434a	0,9	18.00	0.20
31418	100000 Ohms, in 2 steps, with plugs of 50000 Ohms each. Each division for 75 Volts	2433	0.8	18.80	0.20

¹⁾ The different resistances of normal make are bifilarly wound, but the steps of 100 Ohms upwards of all resistances can also be supplied without capacity according to Chaperon, at an additional cost of 20%, with the exception of Cat. Nos. 31417—31420.

²⁾ See treatise of the Physikalisch-Technische Reichsanstalt, 1899/1900, Vol. III, page 164.

Cat. No.	Article	Draw- ing No.	Net Weight Kilos	Price \$	Pack- ing \$
	Resistance with sectional Terminals				
31419	1 Million Ohms in sections of 100000 Ohms each. Each division will stand 100 Volts and is fitted with 4 bifilarly wound coils	6775	3,5	80.00	0.40
31420	10 Million Ohms in sections of 1 Million Ohms each; each division will stand 500 Volts and is fitted with 40 bifilarly wound coils	6775a	2,5	400.00	1.50
31421	Bridge Shunt Resistance¹⁾ with interchangeable Branches , containing 2 branches of 1, 10, 100, 1000 Ohms each, which can be connected with any of the other branch resistances at will . .	6998	3	60.00	0.20

Switch Resistance

with accurate adjustment and terminals for each section.

Cat. No.	Total Re- sistance Ohms	Draw- ing No.	Steps for the Cranks Ohms	Steps for the Plugs Ohms	Net Weight Kilos	Price \$	Pack- ing \$
31422	160000	6901	9×0,1; 1; 10; 100; 1000	{ 10000; 20000 } { 40000; 80000 }	9.5	176.00	1.00
31423	10000	6901a	9×0,1; 1; 10; 100; 1000	—	7,5	156.00	1.00
31424	10000	6901c	9×1; 10; 100; 1000	—	7.5	186.00	1.00
31425	1000	6901b	9×0,1; 1; 10; 100	—	7,5	135.00	1.00
31426	1000	6901c	9×1; 10; 100	—	6	112.00	1.00

¹⁾ The different resistances of normal make are bifilarly wound, but the steps of 100 Ohms upwards of all resistances can also be supplied without capacity according to Chaperon, at an additional cost of 20%.

The Rowe Harmonic Analyser

This is a simple, compact, and easily operated instrument for rapidly and accurately determining the relative amplitudes and phase relations of the harmonic components into which any periodic curve or oscillogram can be resolved. It is applicable to any wave length without the necessity of enlarging or otherwise changing the wave to be analysed. An early form of the instrument was described in the Electrical World of March 1905; recent improvements have greatly increased its value.

Send for special descriptive circular.



C 288

The "Little Jack" Independent Levelling Screws

These "Little Jacks" are convenient in the laboratory for quickly setting up a levelling table of any required size or shape, or for providing any piece of apparatus with temporary levelling screws. The "Little Jack" consists of a bell-shaped brass casting with three feet, fitted at the top with a screw having a milled flange. The "Little Jack" is about three inches high when screwed down, a convenient height for admitting the fingers underneath the levelling table to operate the screw.

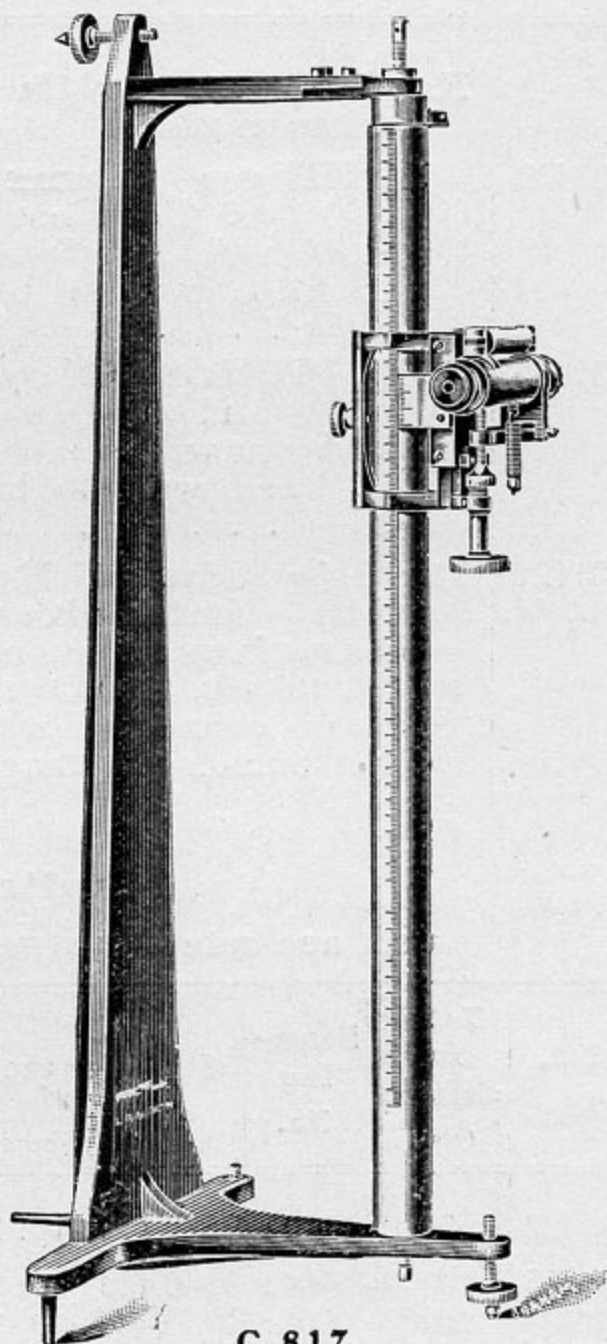
C 287 "Little Jacks" with $\frac{1}{4}$ inch screw, per set of three, from stock.. \$1.75

C 288 Same, with $\frac{3}{8}$ inch screw, per set of three, from stock..... 2.00

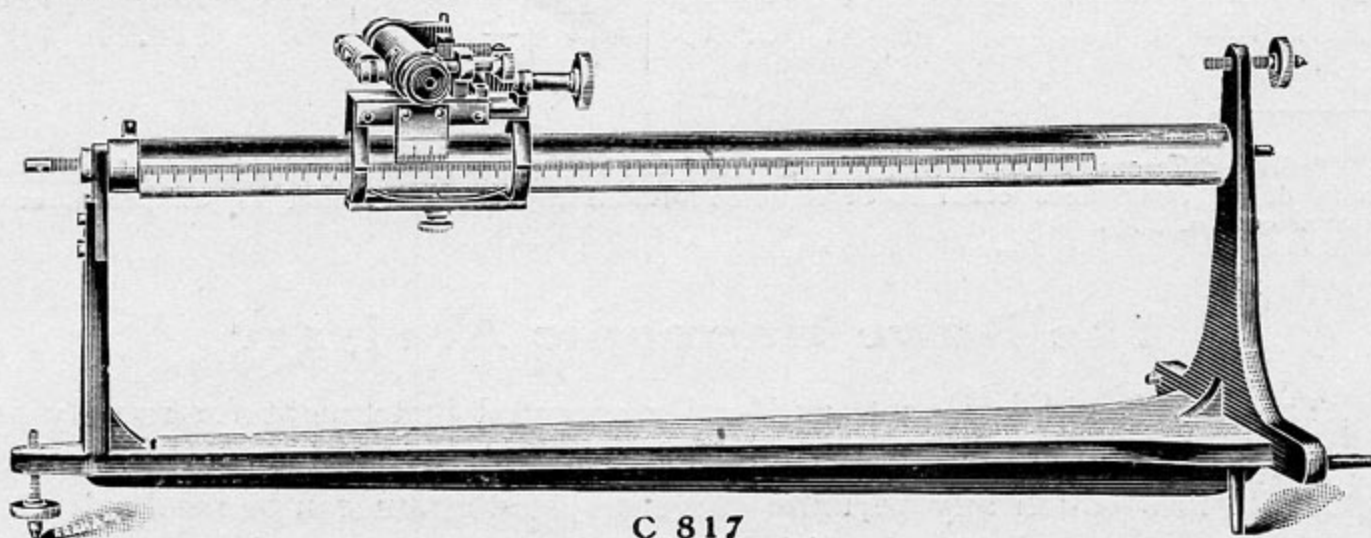
The "Studentia" Cathetometer

This cathetometer is especially designed for the use of students. It is strongly made and is not easily deranged.

It consists of a stout brass bar, cylindrical in section and straight, which swings between two hardened steel centres, and can be clamped in any position in azimuth. A millimetre scale runs almost the entire length of the bar. A carriage slides along the bar and is provided with a feather-way, spring, and clamp. One face of the carriage is formed into a dovetailed slide, along which the telescope can be moved by means of a micrometer screw. The position of the telescope is read by means of a vernier attached to the telescope support. The telescope has a focal length of about seven inches, and a clear aperture of 15-16 inch, and is provided with a level and cross-wires. It can be adjusted horizontally, and can be focused from infinity to within three feet. The construction of the stand is such that the instrument can be used either vertically as a cathetometer, or horizontally as a comparator.



C 817



C 817

C 817 Studentia Cathetometer with 50cm. range, reading to 0.02mm. Duty-free.....	\$47.50
C 818 Same , 1 metre range, reading to 0.02mm. Duty-free.....	65.00
C 819 Same , 50cm. range, reading to 0.01mm. Duty-free.....	52.50
C 820 Same , 1 metre range, reading to 0.01mm. Duty-free.....	75.00