No. 315.

New Apparatus at Special Prices...

The apparatus listed herewith was made by the late firm of Willyoung & Co., and when the business changed hands these goods became the property of **Morris E. Leeds & Co.**, who purchased the manufacturing plant, etc., of the old firm. It is only natural that Leeds & Co. should desire to "start fresh" as far as possible, and with this in view I am authorized to quote exceedingly low prices—much less than would be possible under any other circumstances. The apparatus is perfectly new and of types which have been standard for several years, so that it is like "finding money" to buy these instruments.

The amount of stock is limited as will be evident; hence any one who desires to take advantage of the opportunity should do so at once. Nearly all of the instruments are illustrated in catalogue B "Electrical Measuring Instruments" which should be consulted carefully by prospective customers. Upon request a copy will be mailed to such, free. The prices which appear are those in catalogue B. *The special reorganization prices will be quoted only upon application.* We prefer not to put them in print for after the present sale is concluded there is no chance that such low figures will be continued.

The Psychological Apparatus which follows the lot of Electrical Instruments as described in catalogue No. 300. These instruments are likewise perfectly new and are similar to those which we have already supplied to various colleges and universities.

JAMES G. BIDDLE
SOLE AGENT FOR LEEDS & CO.
1038 Drexel Building
PHILADELPHIA

December, 1899

Quantity.	Special No.	DESCRIPTION.	Catalogue No.	Catalogue Price.
2	D1	**Standard Mica Condenser** (Grade B). . . . ⅓ microfarad capacity. Single value. Mounted in polished hard wood case, with hard rubber top. Guaranteed accurate to within ¼ of 1%.	B5055	**$45 00**
4	D2	**Standard Mica Condenser** (Grade B) . . . 1 microfarad capacity, subdivided in five sections. Mounted in polished hard wood case, with hard rubber top. Guaranteed accurate to within ¼ of 1%.	B5058	**70 00**
2	D3	**"D. P." Standard Mica Condenser** (Grade B) 1 microfarad capacity, subdivided in four sections. Mounted in polished hard wood case, with hard rubber top. Guaranteed accurate to within ¼ of 1%.	B5056	**75 00**
2	D4	**"D. P." Standard Mica Condenser** (Grade B) 1.10 microfarad capacity, subdivided in eight sections. Mounted in polished hard wood case, with hard rubber top. Guaranteed accurate to within ¼ of 1%.	B5068	**130 00**
2	D5	**Kelvin (Thompson) Galvanometer** . . . . Four coils; total resistance 5000 ohms. Can be joined in any combination of series or multiple; High sensibility.	B5096	**67 50**
3	D6	**Ballistic Galvanometer** (Grade B) . . . . Improved form with two coils; total resistance 500 ohms. Period and sensibility may be varied within wide limits.	B5105	**65 00**
7	D7	**Tripod D'Arsonval Galvanometer** . . . . Table form, with interconvertible coil. Resistance about 1200 ohms. Sensibility about 200 megohms.	B5130	**25 00**
2	D8	**Improved Meter Bridge** . . . . . In certain details of construction this apparatus has been modified from the illustration in Catalogue.	B5202	**60 00**
3	D9	**Standard International Ohm** . . . . . B. A. form. Guaranteed accurate to within $\frac{1}{100}$ of 1%. Certificate furnished.	B5209	**25 00**
2	D10	**Reichsanstalt Type Standard Ohm** . . . . Guaranteed accurate to within $\frac{1}{100}$ of 1%. Certificate furnished.	B5215	**20 00**
2	D11	**Resistance Box** . . . . . 1111.5 ohms, divided into fourteen coils of 0.5, 1, 1, 2, 3, 4, 10, 20, 30, 40, 100, 200, 300, and 400 ohms. Guaranteed accurate to within ⅓ of 1%.	B5225	**32 50**
4	D12	**Resistance Box** . . . . . Same as B5225, with addition of 1000, 2000, 3000 and 4000 ohms, making total resistance of 11111.5 ohms.	B5226	**45 00**
6	D13	**Resistance Box and Wheatstone Bridge** . . Rheostat coils same as B5226. Bridge coils 1, 10, 100 and 1000 ohms on each arm. Guaranteed accurate within ⅓ of 1%.	B5228	**65 00**

Quantity.	Special No.	DESCRIPTION.	Catalogue No.	Catalogue Price.
2	D14	**100,000 Ohms Resistance Box** (Grade B) . Subdivided in four coils of 10,000, 20,000, 30,000 and 40,000 ohms. Guaranteed accurate within $\frac{1}{5}$ of 1%.	B5246	50 00
3	D15	**Double Plug Key;** hard rubber base (Grade B)	B5261	6 25
1	D16	**Single Contact Key;** hard rubber base (Grade B)	B5263	5 00
1	D17	**Double Contact Key;** hard rubber base (Grade B)	B5264	8 00
1	D18	**Short Circuit Key;** hard rubber base (Grade A)	B5265	6 50
1	D19	**Lambert's Discharge Key;** hard rubber base (Grade B)	B5268	20 00
3	D20	**Reversing Key;** hard rubber base (Grade B)	B5270	25 00
3	D21	**Kempe Discharge Key;** hard rubber base (Grade B)	B5285	35 00
5	D22	**Material for Congress Standard Cell** . . .	B5292	4 50
2	D23	**Sechommeter** . . . . . A modified form of the Ayrton and Perry Apparatus. May be driven by hand or motor.	B5315	50 00
1	D24	**Profs. Ayrton and Perry's Variable Standard of Self Induction** . . . . . Reading direct in Milli-Henrys. Range from 3½ to 35 M. H. This instrument was made for an order but not shipped, because the wood rings did not keep their shape perfectly. The wood is now thoroughly seasoned and the warp, while noticeable, is not great. The instrument has been re-standardized and is guaranteed "good as new" in respect to accuracy and continued reliability. Well finished but slightly shopworn.	B5316	112 50
1	D25	**Standard Potentiometer Resistance** . . . 1 ohm, to carry 0.15 to 1.5 amperes.	B5361	20 00
3	D26	**Incandescent Lamp Rotator** . . . . . For obtaining mean horizontal candle power. To be driven by motor.	B5388	30 00
3	D27	**Direct Reading Photometer Scale**	B5410	10 00
1	D28	**High Potential Transformer**	B5435	75 00
18	D29	**Single Contact Key;** wood base	B5700	1 75
4	D30	**Mica Condenser** . . . . . 1 microfarad capacity, in five sections. Accurate within 1% approximately.	B5713	40 00
4	D31	**Simple Detector Galvanometer**	B5715	4 50
5	D32	**Reflecting Astactic Galvanometer**	B5720	9 00
7	D33	**Simple Tangent Galvanometer**	B5724	12 50
2	D34	**D'Arsonval Galvanometer**	B5725	12 50
1	D35	**Standard One Ohm Coil;** accurate within $\frac{1}{5}$ of 1%	B5730	3 50
8	D36	**Resistance Box** . . . . . 111.5 ohms in ten coils of 0.5, 1, 1, 2, 3, 4, 10, 20, 30 and 40 ohms. Accurate within ½ of 1%.	B5732	20 00

Quantity.	Special No.	DESCRIPTION.	Catalogue No.	Catalogue Price.
5	D37	**Resistance Box** . . . . . Same as B5732, with addition of 100, 200, 300, 400 and 1000 ohms making total of 2111.5 ohms.	B5733	**27 50**
4	D38	**Resistance Box** . . . . . Same as B5733, with addition of 2000, 3000 and 4000 ohms, making total of 11111.5 ohms.	B5734	**32 50**
2	D39	**Wheatstone Bridge and Rheostat** . . . . Rheostat coils same as B5734. Bridge coils 10, 100 and 1000 ohms on each arm.	B5735	**40 00**
1	D40	**Earth Inductor**	B5755	**35 00**
2	D41	**Electrometer**	B5758	**17 50**
2	D42	**Electrodynamometer** . . . . . 0.2 to 4 amperes.	B5760	**17 50**
15	D43	**Automatic Lever Air Pump, No. 1** . . . . Mounted on japanned iron base, with brass cylinder 2½″ diameter by 8″ long. Brass pump plate 9″ diameter. A very excellent air pump for laboratory use.	B5785	**17 50**

Psychological Apparatus.

Quantity.	Special No.	DESCRIPTION.	Catalogue No.	Catalogue Price.
3	D60	**Revolving Drum**	S1	**$60 00**
2	D61	**Electro-magnetic Tuning Fork**	S1½	**17 50**
1	D62	**Reaction Key**	S9	**9 00**
4	D63	**Touch Key**	S13	**5 50**
2	D64	**Steadiness Gauge**	S20	**6 00**
3	D65	**Spring Dynamometer**	S22	**4 25**
2	D66	**Simple Aesthesiometer**	S27	**2 00**
3	D67	**Test Weights**	S29	**4 00**
9	D68	**Clamp for Appun Reed**	S36a	
9	D69	**Galton Whistle**	S37	**8 00**
1	D70	**Pair of Tuning Forks** for least noticeable difference	S38	**24 00**
30	D71	**Bradley Color Top**	S42	**06**
6	D72	**Color Wheel**	S43	**10 00**
6	D73	**Package of Colored Papers**	S45	**45**
7	D74	**Perimeter**	S48	**10 00**
150	D75	**Set of Blind Spot Cards**	S58	**15**
2	D76	**Wool Test for Color Blindness**	S68	**7 50**
1	D77	**Fitz Spring Cylinder Chronograph**	S200	**65 00**
1	D78	**Location Reaction Apparatus**	S201	**25 00**
1	D79	**Simple Metronome**	S231	**3 55**
2	D80	**Cattell Algometer**	S242	**10 00**
1	D81	**Mosso Ergograph**	S243	**40 00**
1	D82	**Steel Rod,** nickel-plated, 20″ x $\frac{7}{16}$″	S308	**30**
16	D83	" " " 15″ x $\frac{7}{16}$″	S309	**35**
4	D84	" " " 12″ x $\frac{7}{16}$″		**22**
34	D85	" " " 13″ x $\frac{3}{16}$″	S310	**22**