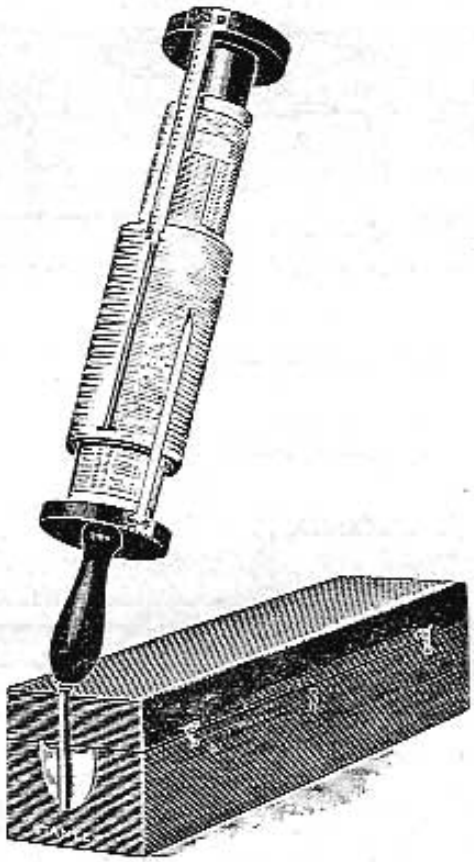
W. F. STANLEY & CO. LTD

LONDON, ENGLAND

Fuller's Calculating Rules.



K3613.

An additional improvement has now been effected in these instruments by adapting the case to support the rule when in use thus overcoming the objection of being always obliged to hold it in the hand

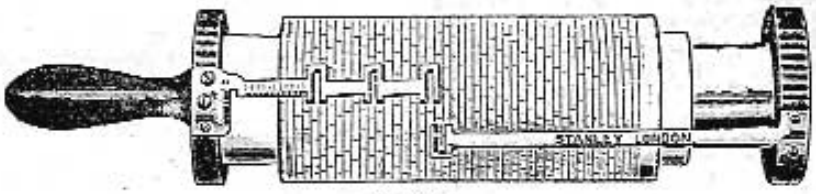
K3613 **Professor Fuller's Calculating Slide Scale,** the most accurate of all forms of calculating scales, is equal to a straight slide rule 83 feet long, and gives logarithms, multiplication, division, proportion, &c., results in four or five figures. Its range is greater than that of most arithmetical machines, as besides the operations of multiplication and division which many instruments can only perform, results requiring the reciprocals, powers, roots, or logarithms of numbers can be quickly and easily obtained by its use. Largely used by civil, electrical, and mechanical engineers, actuaries quantity surveyors, &c. In mahogany case, with instructions for use **£3 0 0**

K3614 **Fuller's Rule,** as above, with the addition of a scale of sines on the fixed cylinder for the solution of triangles. In mahogany case, with instructions **3 15 0**

K3615 **Fuller-Bakewell,** as K3613, with the additional scales of $\sin^2$ and $\sin \times \cos$. on the fixed cylinder, giving at sight the horizontal equivalent and vertical height from tacheometer observations. In mahogany case, with instructions **4 10 0**

Descriptive Pamphlet, post free, 6d

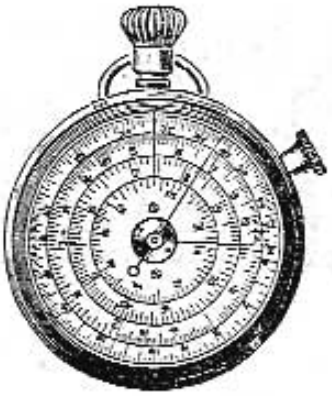
Barnard's Co-ordinate Calculating Rule.



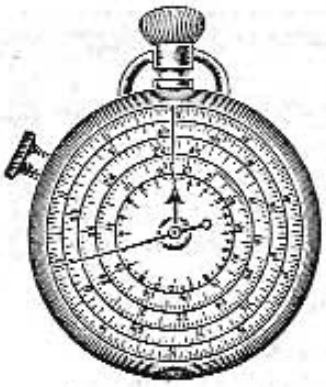
K3620.

K3620 **Barnard's Co-ordinate Calculating Rule.** Similar to our well-known Fuller's slide rule, but modified to calculate co-ordinates. About one-third of the calculating cylinder only is used for the logarithmic scale of numbers and the remaining portion carries the new scales, so that in addition to multiplication, division, proportion, continuous fractions, powers, roots and logarithms the natural and logarithmic values of trigonometrical functions of any angle can be determined by inspection with the same accuracy as in numerical computation, while the products, quotients, &c., of these functions by lengths or numbers, integral or fractional, are obtained with equal ease, rapidity and precision In mahogany case, with book of instructions . **£4 0 0**

Boucher's Pocket Calculators.



K3622 to K3625 (Front).



K3624 and K3625 (Back).

Boucher's Pocket Calculator. This is about the size of an ordinary watch, and equivalent to a 10 inch slide rule It has calculating scales on both faces. Those on the front dial give logarithmic numbers, sines and squares, or square roots. Those on the back give scale of equal parts, cubes and cube roots.

K3622 With Nickelled Case **£0 12 6**

K3623 ,, Silver Case **1 5 0**

Stanley-Boucher Calculator is an improvement on the above by the addition of a third index hand on the back dial, which indicates the total movement of the front dial, so that continuous workings show a final result, either + or —, thus indicating the correct reading of the result.

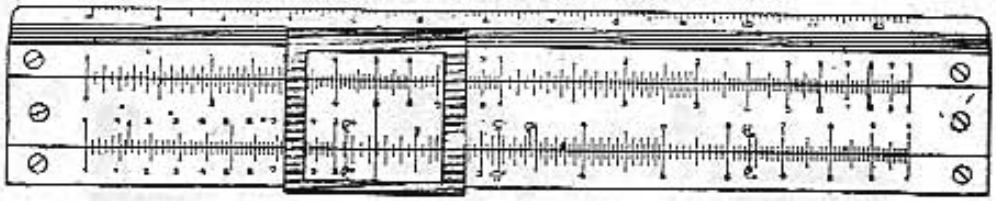
K3624 With Nickelled Case **£0 17 6**

K3625 ,, Silver Case **1 10 0**

A book of instructions is supplied with each instrument

Slide Rules for Calculation.

K 2657



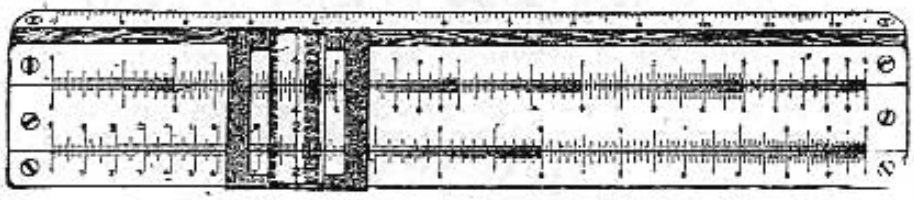
K3656 **Slide Rule,** 10 inch, mahogany, faced with celluloid on both sides to prevent warping, marked with logarithmic scales of numbers, squares and square roots, sines, tangents, and scale of equal parts. Suitable for all ordinary professional calculations and giving most results in three figures. Of best make, with glass cursor, complete in card case with instructions for use £0 8 6

K3657 Ditto, 5 inch, in case, with book of instructions 0 5 0

K3658 Ditto, 14 ,, ,, ,, ... 1 7 0

K3659 Ditto, 20 ,, ,, ,, ... 2 5 0

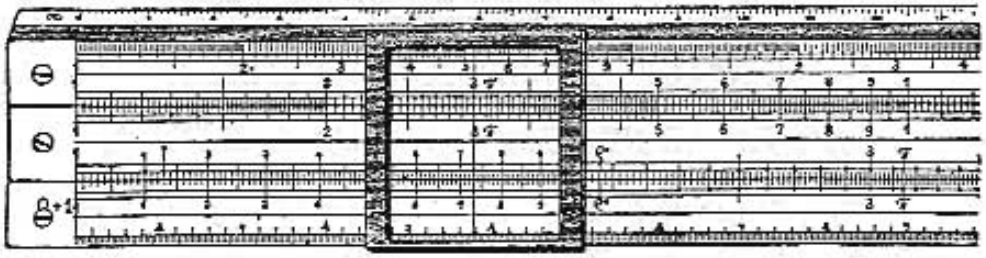
K3660.



K3660 **Slide Rule,** 5 inch, as above, but with magnifying lens to the cursor, in case, with book of instructions £0 8 6

K3661 Ditto, 10 inch, ditto, with instructions, no case 0 14 0

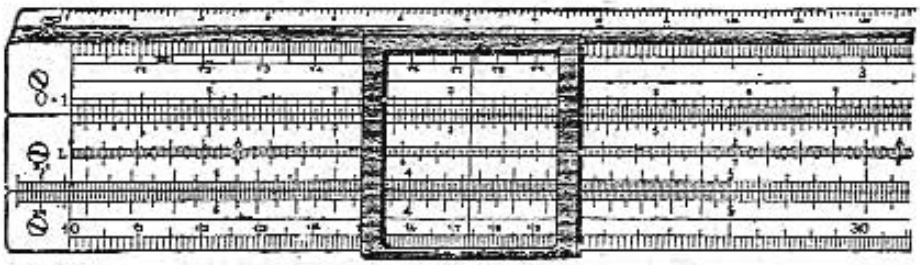
K 3666.



K3666 **"Rietz" Slide Rule,** 10 inch, having scales of cubes and logarithms on the face, in addition to the usual scales in case, with book of instructions £0 10 6

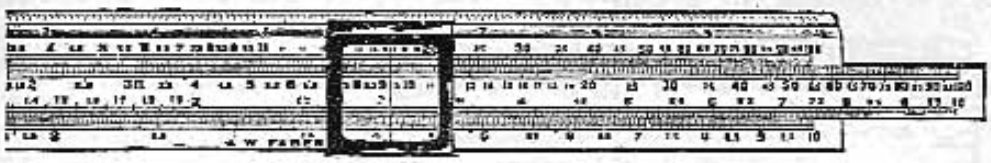
K3667 Ditto. 15 inch, ditto 1 15 6

K3670.



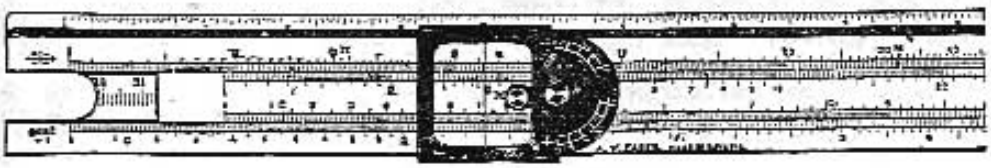
K3670 **"Precision" Slide Rule,** 10 inch. This is equivalent to a 20 inch rule of the usual type. It has a single logarithmic scale of numbers which commences on the upper edge of the slide and is continued on the lower, making the logarithmic unit 50 centimetres in length The sine and tangent scales are similarly divided so that great accuracy is obtained in all calculations In case, with book of instructions £1 0 0

Slide Rules (continued).



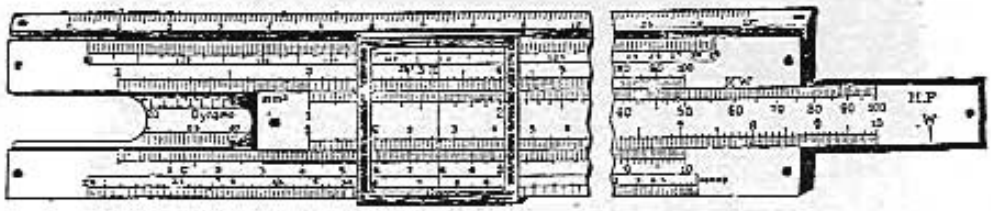
One end of K3682.

K3682	**A. W. Faber's Slide Rule,** 11 inch, with usual scales boxwood faced with celluloid, in card case	£0	8	6
K3683	Ditto, with 50 page book of instructions	0	10	0



One end of K3684.

K3684	**A. W. Faber's Improved Rule,** with digit registering cursor, 11 inch, in case	£0	10	6
K3685	Ditto, with book of instructions	0	12	0



K3687.

K3687	**A. W. Faber's Electrical or Mechanical Engineers' Slide Rule,** with log-log scale, 11 inch	£0	12	0
K3688	Ditto. with book of instructions	0	13	6

Students' Slide Rules.

K3689	**Student's Slide Rule,** 10 inch, front faced with celluloid similar to K3656 on previous page, with scales of logarithmic numbers, squares and square roots, but without the sine and tangent scales or inside graduations in case, with book of instructions	£0	5	0

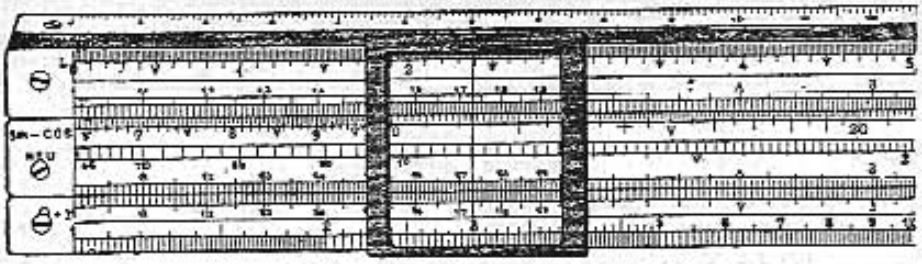
Cursors and Cases for Slide Rules.

K3690	Additional or Spare Cursor for 5 inch or 10 inch Rules K3656 K3657, K3682 or K3689	£0	2	0
K3691	Ditto, for "Reitz," "Precision," Faber's Improved or Electrical and "Universal" Rules	0	3	3
K3693	Magnifying Cursor for 5 inch Rule K3660	0	3	0
K3694	,, ,, ,, 10 ,, ,, K3661	0	6	0
K3695	,, ,, ,, 10 ,, "Reitz" Rule K3666	0	7	6
K3696	Solid Leather Case for 10 inch Slide Rule	0	2	6
K3697	,, ,, ,, 14 ,, ...	0	3	6

Books for use with the Slide Rule.

K3698	**The Slide Rule,** by R. G Blaine	£0	2	6
K3699	**The Slide Rule Practical Manual,** Charles N. Pickworth, net ...	0	2	0
K3700	**Instanter Decimal Tables,** O. Winzar, giving the decimal equivalents of all sub-divisions of British money, weights, measures, Indian annas, &c., net	0	1	6

Tacheometer Slide Rules and Calculators.



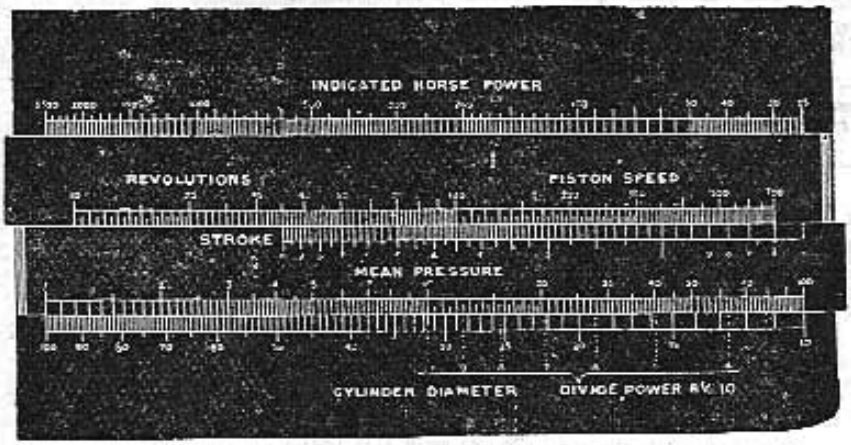
K3711 and K3712.

K3711 **The " Universal " Slide Rule,** with logarithmic scales of sin-cos and cos² for tacheometrical calculations, in addition to the usual scales, for instruments divided to 360° **£0 16 6**

K3712 Ditto, for instruments divided centessimally to 400° **0 17 6**

For Fuller-Bakewell Tacheometer Rule (recommended) see K3615, *page* 230

Hudson's Computing Scales.



Hudson's Horse-power Computing Scale.

Hudson's Horse-power Computing Scale gives at sight —the I.H.P , the size of engine for any given power ; the piston speed due to any stroke and number of revolutions per minute ; the ratio the High and Low pressure cylinders of compound engines bear to each other , the proportion the " mean " bears to the " initial " pressure.

K3725 Cardboard, size 4½ × 2¼ × 1/16th inch, in case with instructions for use **£0 5 0**

K3727 Ditto, in opaque celluloid, in case **0 12 6**

Hudson's Shaft, Beam, and Girder Scale gives at sight —the load a cast iron, wrought iron, or steel shaft will carry with any factor of safety ; the diameter of a cast iron, wrought iron, or steel shaft to carry a given load ; the load a beam or girder will carry at any span and factor of safety ; the area required for a beam with a given span load, and factor of safety, &c.

K3728 Cardboard, same size as the above, in case with instructions ... **£0 5 0**

K3730 Ditto, in opaque celluloid, in case **0 14 0**

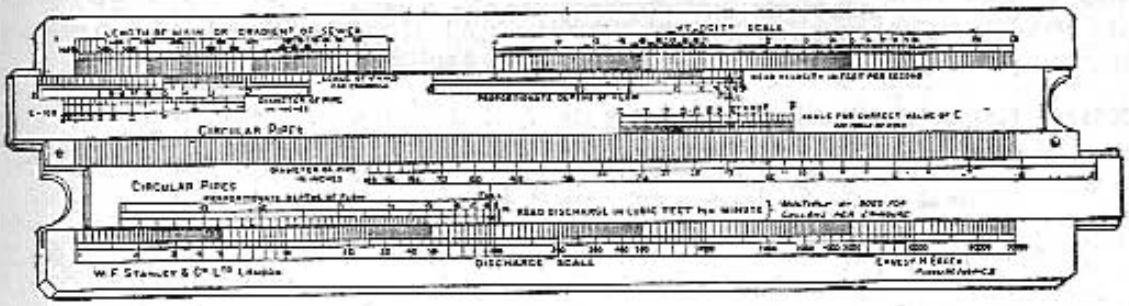
Hudson's Pump Scale gives at sight —the diameter and stroke of a pump needed to discharge any quantity in any given time ; the quantity discharged in any given time by a pump ; the diameter of a pipe needed for a given discharge at any desired speed of flow , the usual proportions for feed, injection, circulating and air pumps using various weights of steam and coal per I.H.P. per hour, &c.

K3731 Cardboard, same size as above, in case, with instructions ... **£0 5 0**

K3733 Ditto, in opaque celluloid, in case **0 14 0**

Any of the above Card Scales can be supplied without cases, to keep in pocket book., at **1/-** *each less*

The Essex Calculator for the Discharge of Fluids from Pipes, Channels and Culverts.



This Calculator is designed to enable the engineer to ascertain rapidly and with some fair degree of accuracy the rates of velocity and discharge from sewers and water mains; it can also be used to find the velocity of discharge in different forms of channel.

Many papers, books, tabulated lists of figures, graphic diagrams, and other aids for calculating the rates of velocity and discharge from pipes have been placed at the disposal of the engineer, but all have suffered under the disadvantage of being applicable to one formula only; so there is still a need for some simple calculator which can be conveniently handled and carried about and which is readily adjustable to any or all of the different formulæ in common use. It must be remembered that the engineer has not only to decide which formula to use for the different classes of material and circumstances under his consideration, but he is frequently called upon to compare his results with those obtained by others using different formulæ

Such facilities are readily presented with this calculator by means of the additional scale for the "correct value of C," upon the upper side, representing the variable coefficient in Chezy's original formula $V = C\sqrt{rs}$, upon which all the later formulæ are based.

K3739 PRICE, in case, with instructions for use **£0 7 6**

The Small Essex Calculator.

This Calculator having only one slide, is small and convenient to carry about, but is necessarily limited to the use of Kutter's formula with value of n = ·013 for sewers and culverts and an alternative value of n = ·011 and n = ·012 for water mains. The slide is moved until the diameter of the pipe and the required gradient come opposite each other and the velocity (when full) read opposite the arrow, precisely as in the two-slide calculator; the discharge (when full) may be read opposite the diameter on the lower edge of the slide

Velocities **at proportionate depths of flow** can be read opposite the scale in the top right-hand corner of the slide, while discharges at different depths of flow may be read by means of the loose scale supplied with the Calculator.

K3740 PRICE, in case, with instructions for use **£0 4 6**

Cubing and Ship's Displacement Slide Rules.

K3752 **Cubing Slide Rule,** Sheppard's, with two slides, giving at sight square or cubic contents in feet and inches up to 100 cubic feet, specially designed for quantity surveyors, timber merchants, &c., with instructions for use, 12 inch **£0 18 0**

K3753 Ditto, 22 inch **1 4 0**

K3755 **Froude's Ship's Displacement Slide Rule,** 24 inch **2 0 0**

For Books on the Slide Rule, see page 233.