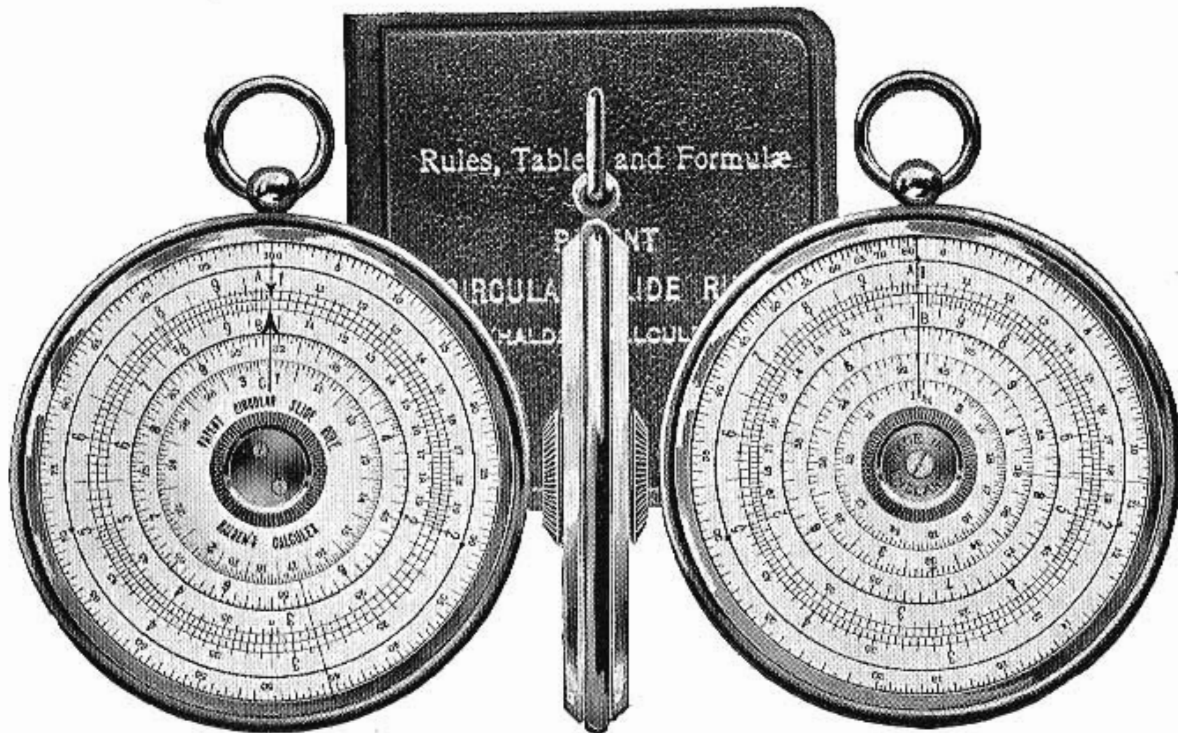




**HALDEN**

# The "Halden Calculex."

Patent.



## IMPROVED PATTERN.

Upwards of 60,000 "Calculex" have been sold in Great Britain and abroad. In the United States of America and on the Continent it has had a very wide sale. These facts alone are sufficient warranty of the popularity and usefulness of this small instrument. Its uses are not confined to the requirements of Engineers; the Services—Naval and Military—have also discovered its value.

To everyone into whose hands it has come it has proved an invaluable and indispensable companion, superseding the older types of slide rule, which have, in many cases, been discarded.

For convenience and accuracy it has no rival.

It is accompanied by a complete little manual, containing all data and formulæ explanatory of the uses of the "Calculex."

## IT IS THE BEST OF ALL SLIDE RULES AND IS BRITISH MADE. ITS ADVANTAGES.

It combines all the advantages of the Slide Rule with those of the Pocket Calculator.

It is only  $\frac{1}{4}$ -in. thick, and is very neat and compact.

It may always be at hand, being carried in the waistcoat pocket without the slightest inconvenience.

Being in a circular form, the reading is continuous without any break or end.

The Cursor Lines are very fine and very close to the Dial, and ensure great accuracy in reading.

Most calculations are made with only one setting.

It gives a great range of proportions at each setting.

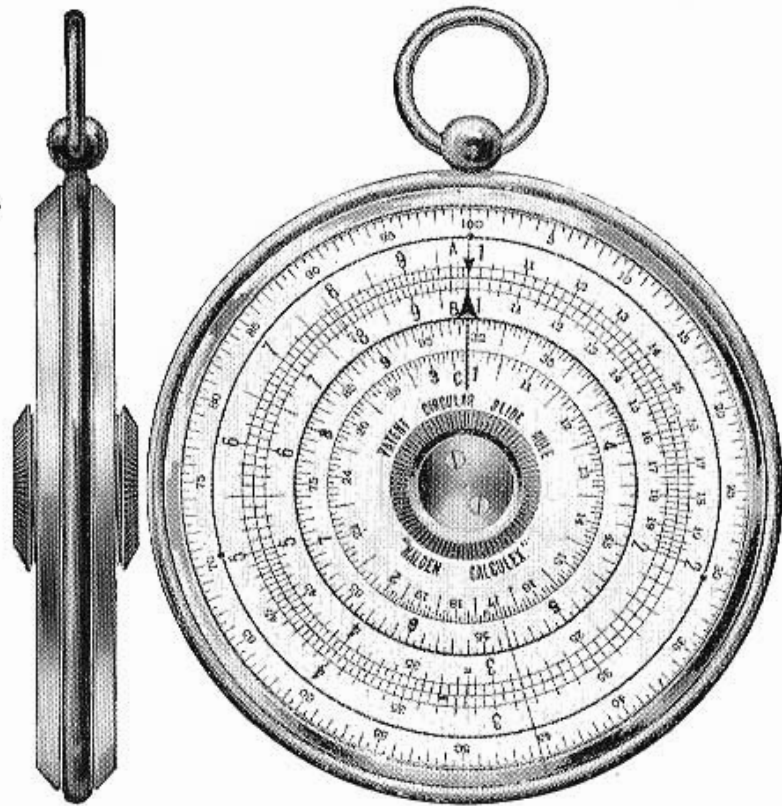
If the accuracy of the setting is doubtful, it can be tested at any time.

The scales for inverse proportions are close together and can be set and read without the Cursor.

**The**  
**"Halden Calculex."**



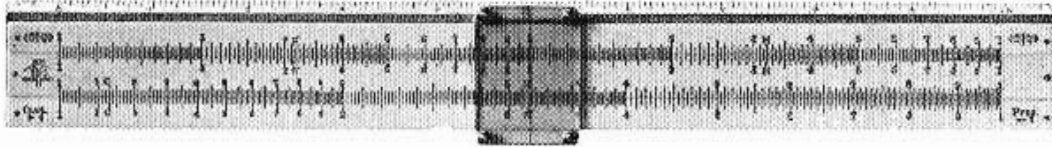
This illustration  
shows the  
actual size of the  
instrument.



	£	s.	d.
2120 Pocket "Calculex," complete in case with book of instructions, containing formulæ and data, for Engineers, Surveyors, Architects, Builders, and Business Men, &c., with glass cursors .. .. .	1	1	0
2121 As above, with celluloid cursors .. .. .	1	1	0
2122 As above, with rim and centre of solid silver, with glass cursors .. .. .	2	7	6
2123 As above, with celluloid cursors .. .. .	2	7	6
2124 Desk Size Calculex, actual diameter 5½-in., complete in hard cloth covered case, with book of instructions, formulæ, etc., glass cursors .. .. .	2	10	0
2124a Do. do. in morocco snap case .. .. .	3	5	0
2125 Book of Instructions, Formulæ, &c., in English, French, German or Spanish .. .. . each	0	1	3
2126 Book of Instructions, Formulæ, &c., large size, for desk use (printed in English only) .. .. .	0	1	6
2127 Leather "Snap" Case for Pocket "Calculex" .. .. .	0	3	9
2128 Aluminium " " " " .. .. .	0	3	0

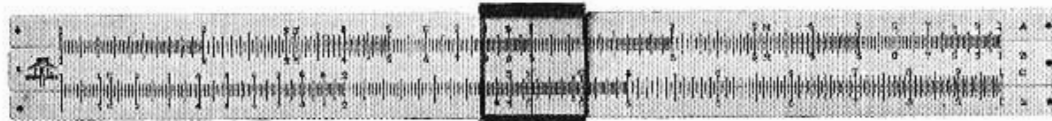
**Halden's "Standard" Calculating Slide Rules.**

**British Manufacture.**



**"P.I.C." STANDARD SLIDE RULE.**

- 2129 10-in., made from picked mahogany, celluloid surfaced back and front, engraved with A, B, C, D Logs, Sines and Tangent Scales, Engine-divided. Complete in case, with book of instructions .. 21/-



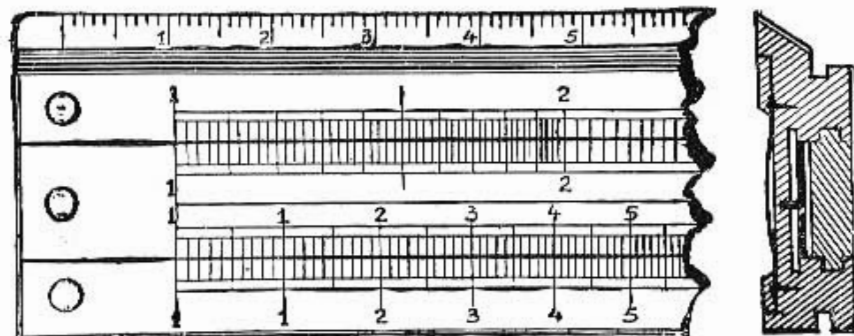
**"P.I.C." STUDENT'S SLIDE RULE.**

- 2129a 10-in., made from well-seasoned mahogany, with celluloid surface on front and aluminium back plate. Engraved on the same machine as the "Standard" Rule, with the usual A, B, C and D Scales. Complete in case, with book of instructions .. 10/6

The following is the Report of the National Physical Laboratory upon the accuracy of the "P.I.C." Slide Rule :

**DEGREES OF ACCURACY.**

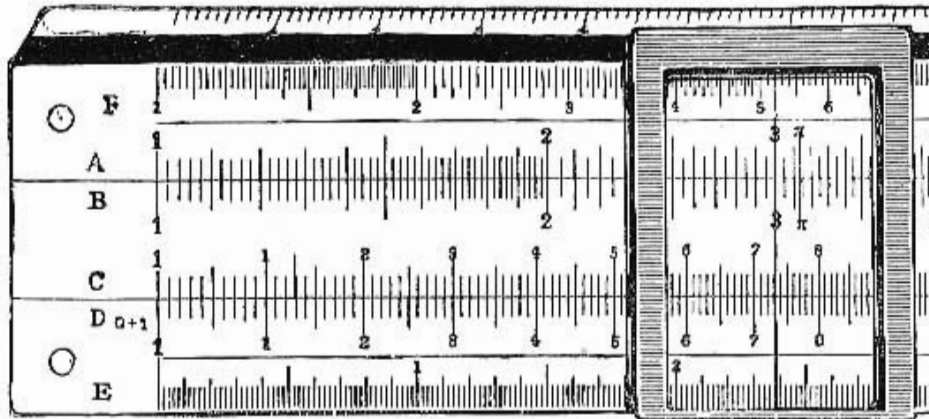
Multiplication .. .. .	well within 1 part in 1,000.
Squares and Square Roots .. .. .	do. do.
Sines .. .. .	up to 1 part in 1,000.
Logarithms .. .. .	up to 2 in the fourth figure.
Tangents .. .. .	up to $\frac{1}{2}$ part in 1,000.



**"AUTOCRAT" and "DEMOCRAT."**

- 2157 10-in. Celluloid Slide Rule, with long ends, with metal back, as shown, containing A, B, C, D, S, T, and Log Scales and Gunners' Marks, divided on the edges in inches and m/m.; glass cursor with centre line. AUTOCRAT. Complete in Case .. 20/-
- 2158 15-in. do. do. DEMOCRAT. Complete in Case .. 50/-

**British-made Slide Rules**  
**WITH CELLULOID FACINGS.**

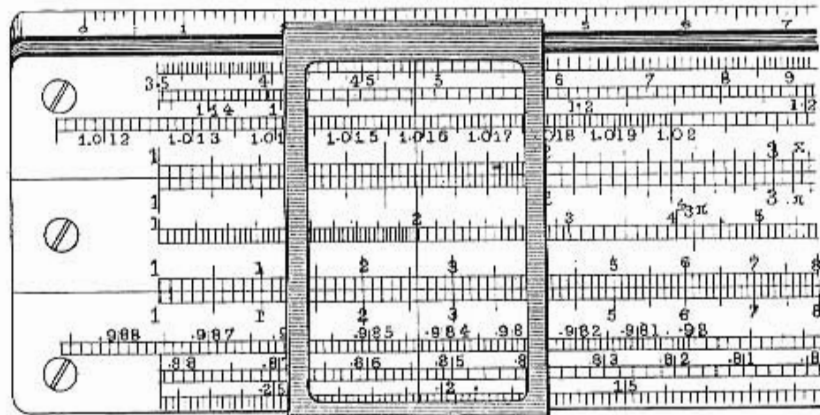


**SPECIAL FEATURES.**

A wider rule, containing two extra scales on the face, viz.: the E and F, in addition to the usual A, B, C, and D scales, permitting the third power and third root to be more readily obtained.

**"PLUTOCRAT."**

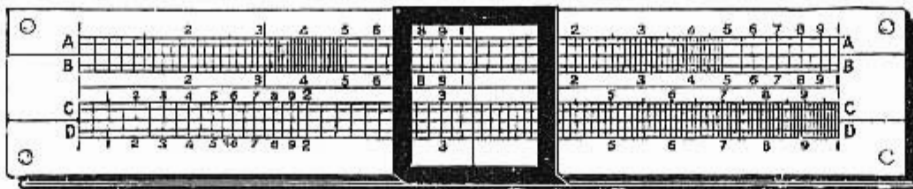
**2159** 10-in. Celluloid Slide Rule, provided with metal back to overcome climatic variations, containing two extra scales on the face, viz., the E and F, in addition to the usual A, B, C, D scales; S, T, and log scales on back, and divided on the edges in inches and m/m., glass cursor with centre line. Complete in Case . . . . . 24/-



**2162**

10-in. Celluloid Slide Rule, provided with metal back and adjusting screws to overcome climatic variation. Containing seven additional scales on the face, S, T, and Sec. Scales on the back, and divided on the edges in inches and m/m., glass cursor with centre line and tongue. Complete in Case . . . 42/-

**"YOKOTA."**

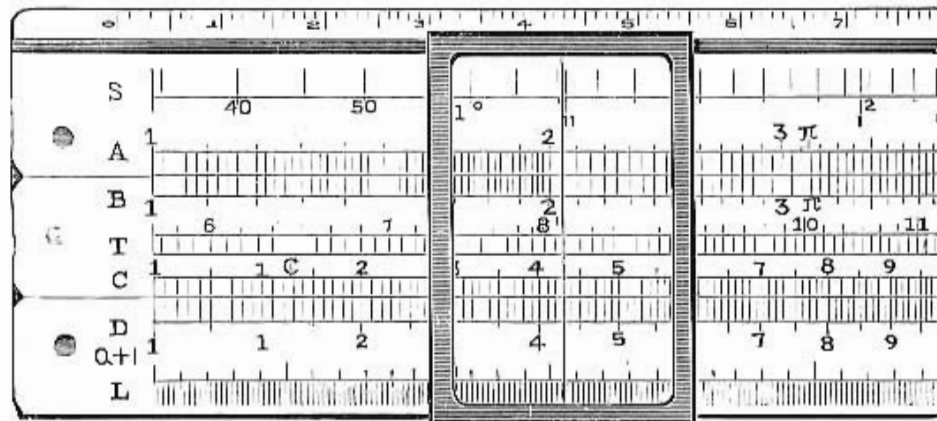


**"STUDENT."**

**2163**

10-in. Celluloid Slide Rule, with celluloid back, containing A, B, C, and D Scales, glass cursor, with centre line. Complete in Case . . . . . 12/6

Illustrated and described is a Slide Rule with a new and distinctive design of scale positions. The rule is an excellent addition to our series of British-made Slide Rules, and has met with a great reception. The new features appeal to all users, whether slide rule experts or beginners.



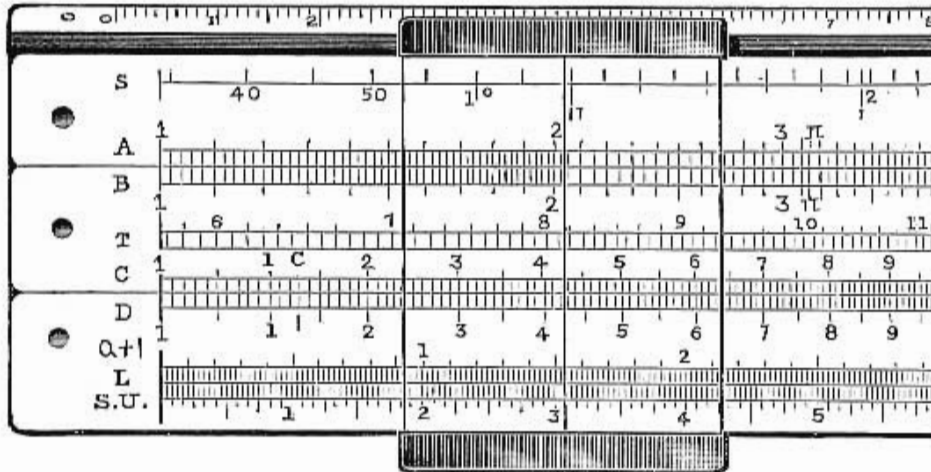
**THE "MONOCRAT" SLIDE RULE. (Arrangement of Scales protected).**

**2164** The "Monocrat" Slide Rule has seven scales, viz., A, B, C, and D, scale of sizes, tangents, logarithms. Complete in Case, with book of instructions . . . . . 21/-

## The "Davis-Scurfield" Split Unit Scale Slide Rule

(Patent applied for).

British Made.



The "Davis-Scurfield" Slide Rule, while incorporating our "Monocrat" Rule, embodies an entirely new departure in Slide Rules, and is specially designed for ease in manipulation of non-decimal units such as the pound, the ton, and the like.

In Slide Rules at present on the market, an extra calculation is necessary to adapt our old-fashioned units of weight, money, time, dimension, etc., etc., to the decimal system.

Owing to this difficulty, numerous people who would otherwise be users of the Slide Rule have neglected to take advantage of this greatest of all calculating time-savers.

The "Davis-Scurfield" Split Unit Scales eliminate this difficulty once and for all, and a brief description of this very simple device should suffice to persuade the most prejudiced opponent of the Slide Rule to reconsider his position.

Practically every Slide Rule is supplied with an evenly-divided log scale on which the log of any number can be read to three figures; yet this particular scale might as well be Greek for all the use the average man in the street gets from it, although, to a small percentage, it is an exceedingly useful scale.

The "Davis-Scurfield" Scale gives to this log scale another use which is bound to appeal to our friend in the street: **To make a money calculation.**

Take our unit of money—the pound—with its sub-divisions of shillings, pence, and even halfpence.

Could any unit be more clumsy from the point of view of an instrument working in decimals?

Alongside the log scale, with its 1,000 divisions, a scale of 20 main divisions is placed representing shillings, which in their turn are sub-divided into pence and even halfpence.

What is the result?

At onesweep our clumsy pound is converted into a handy workable unit, since the odd shillings, pence, and halfpence can be read at a glance as a decimal of a pound on the scale of logs which has now become, in addition, a scale of decimal equivalents.

This is effected with no head work, not even a re-setting of the Rule, but the result waiting to be read!

It is obvious also that the reverse holds good—any decimal of a pound obtained in the answer being read at a glance to the nearest halfpenny on the split-pound scale.

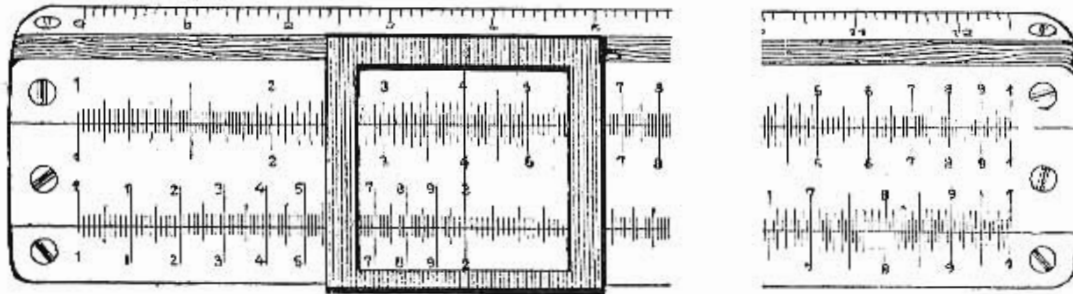
**2146** 10-in. Celluloid Slide Rule, provided with metal back to overcome climatic variations, containing, as in the "Monocrat," the seven scales all on the face of the rule, viz., A, B, C, D, S, L, and T scales, and divided on the edges in inches and cm's. Also the special Split-unit Scale, glass cursor with centre line. **Price**, with case . . . . . **25/-**

# Halden's "Standard" Calculating Slide Rules.

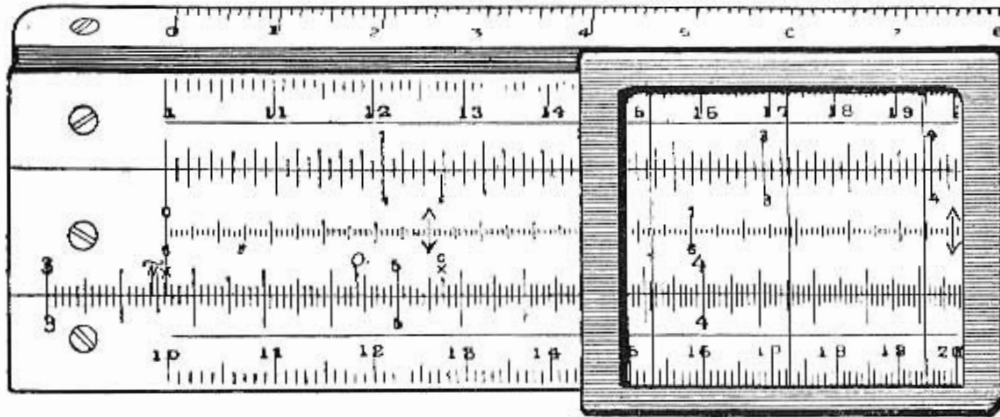
GERMAN MANUFACTURE.

These Rules are made of well-seasoned mahogany, and faced with the best white celluloid. All dimensions are plainly insetted in black. Each rule is provided with an aluminium cursor with glass front, with finely divided line to take off reading. Every care is taken in manufacture to ensure the accuracy of these rules.

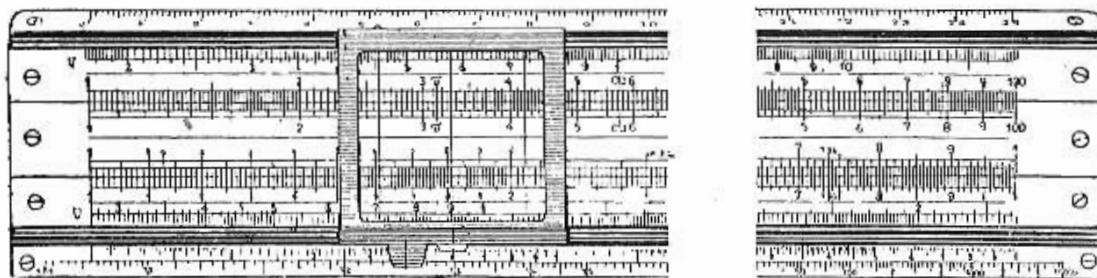
Prices for all Halden's Rules include Case and Book of Instructions.



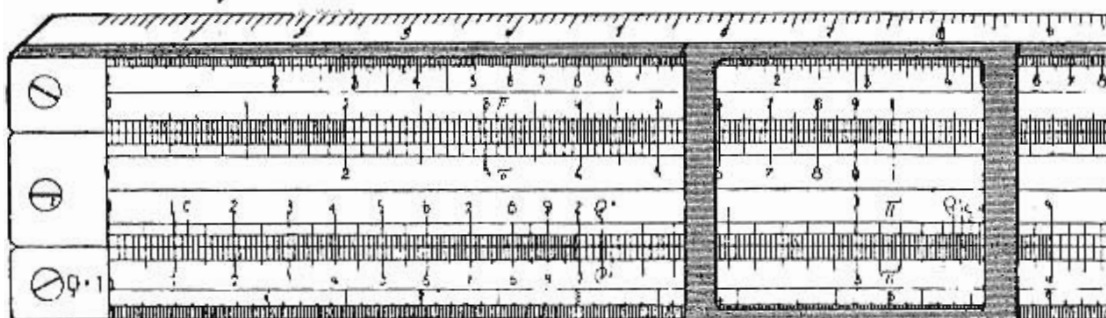
2130	5-in. size "Standard," extra quality, fully divided	.. .. .	16/6
2132	10-in. " " " " " "	.. .. .	21/-
2132A	20-in. " " " " " "	.. .. .	75/-
2133	5-in. " " " " " "	with magnifying cursor	21/-
2135	5-in. Students' Pocket Slide Rule	.. .. .	13/6
2137	10-in. Cardboard Slide Rule	.. .. .	3/6



2138	10-in. Halden's Precision Pattern. This rule gives readings equal to a 20-in. rule	..	35/-
------	--	----	------



2139	10-in. Halden's Electro Pattern, for electrical and mechanical engineers, with log-log scale	..	32/6
------	--	----	------



2141	6-in. Rietz Pattern, with scale of logs and cubes on face	.. .. .	22/6
2142	10-in. " " " " " "	.. .. .	23/6
2143	15-in. " " " " " "	with 3-line cursor	57/6
2144	20-in. " " " " " "	.. .. .	65/-
2145	10-in. " " " " " "	with magnifying cursor	27/6

## Fuller's Slide Rule.

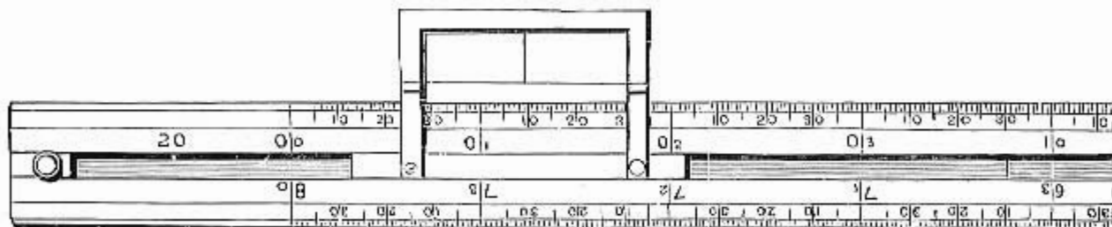
	£	s.	d.
2160 Professor Fuller's Calculating Slide Rule, in mahogany case. . . . .	6	10	0
Packing and postage, 2/6			
2161 The same rule with extended trigonometrical scales, including Cos. <sup>2</sup> and Sin. × Cos., for giving horizontal distances from readings of the Tacheometer and Omnimeter, by W. N. Bakewell, M.Inst.C.E. . . . .	8	10	0
Packing and postage, 2/6			

## A. W. Faber's Slide Rules.

(Made in Bavaria).

	£	s.	d.
360 "Castell" Precision Calculating Rule, 11-in. long, with white celluloid surface and ordinary aluminium cursor. The upper face of the rule has the two usual logarithmic scales for multiplication and division, squaring and cubing, and the extraction of square and cube roots. On the underside of the slide are the sine and tangent scales, SS and TT, for carrying out trigonometrical calculations, and the logarithmic scale LL, by means of which higher powers and roots can easily be obtained . . . . .	1	1	0
369 6-in. do. do. do. . . . .	0	14	0
363 "Castell" Precision Calculating Rule, 11-in. long, with white celluloid surface and ordinary aluminium cursor. Similar to No. 360 in arrangement, but with decimal figuring : 1. 1,1. 1,2. 1,3. . . . .	1	4	6
375 "Castell" Precision Calculating Rule, Rietz Pattern, 11-in. long . . . . .	1	6	3
378 "Castell" Precision Calculating Rule, 11½-in. long, with log-log scale, for Electrical and Mechanical Engineers . . . .	1	11	6
380 "Castell" Precision Calculating Rule, 20-in. long, similar to No. 360 . . . . .	3	3	0

## Computing Scales.



	£	s.	d.
2165 Boxwood Computing Scale, divided any two ordinary scales	1	10	0
2166 Universal Computing Scale, as used in Government departments, divided 1, 2, 3, 4, 5, and 6, chains, &c., complete in mahogany case . . . . .	5	0	0
2167 Extra Scales to fit above . . . . .	0	7	0