

AccessionIndex: TCD-SCSS-U.20121208.040

Accession Date: 8-Dec-2012

Accession By: Prof.J.G.Byrne

Object name: Simplon

Vintage: c.19xx

Synopsis: Sliderules.

**Description:**

Text ...

Photographs courtesy Prof.J.G.Byrne and Dr.Arthur Hughes.

The homepage for this catalog is at: <https://www.scss.tcd.ie/SCSSTreasuresCatalog/>

Click '*Accession Index*' (1st column listed) for related folder, or '*About*' for further guidance.

Accession Index	Location	Vintage	Object and Identification
TCD-SCSS-U.20121208.040.01		c.19xx	<Mfgr?> <model?> sliderule. S/N: <???
TCD-SCSS-U.20121208.040.02		c.19xx	
TCD-SCSS-U.20121208.040.03		c.198x	
TCD-SCSS-U.20121208.040.04		c.198x	
TCD-SCSS-U.20121208.040.05		c.19xx	
TCD-SCSS-U.20121208.040.06		c.198x	
TCD-SCSS-U.20121208.040.07		c.198x	
TCD-SCSS-U.20121208.040.08		c.19xx	
TCD-SCSS-U.20121208.040.09		c.198x	
TCD-SCSS-U.20121208.040.10		c.198x	
TCD-SCSS-U.20121208.040.11		c.19xx	
TCD-SCSS-U.20121208.040.12		c.198x	
TCD-SCSS-U.20121208.040.13		c.198x	
TCD-SCSS-U.20121208.040.14		c.198x	
TCD-SCSS-U.20121208.040.15		c.19xx	
TCD-SCSS-U.20121208.040.16		c.198x	
TCD-SCSS-U.20121208.040.17		c.198x	

TCD-SCSS-U.20121208.040.18		c.19xx	
TCD-SCSS-U.20121208.040.19		c.198x	
TCD-SCSS-U.20121208.040.20		c.198x	
TCD-SCSS-U.20121208.040.21		c.19xx	

The following instruction manuals are properly part of the literature category of this catalog, but are listed here too for convenience.

Accession Index	Object with Identification
TCD-SCSS-V.20121208.???	

#### References:

1. Authors, *Title*, Publication, Publisher, Date.
2. Authors, *Title*, Publication, Publisher, Date.
3. Authors, *Title*, Publication, Publisher, Date.

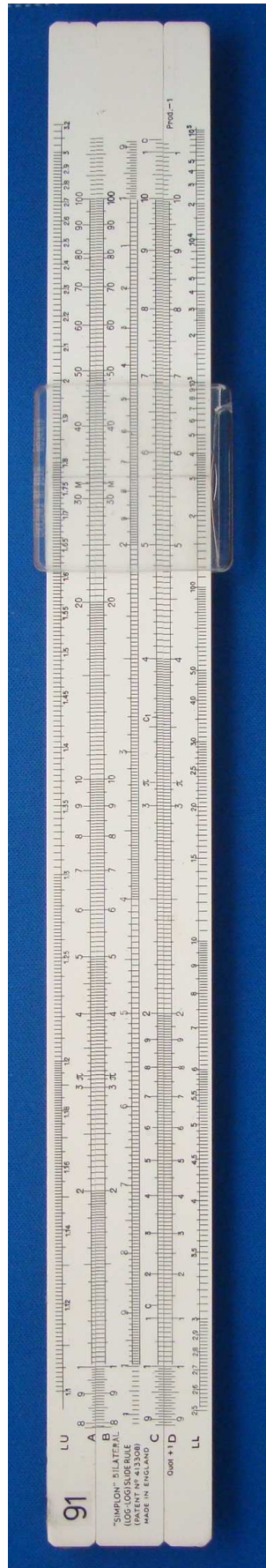


Figure 1: TCD-SCSS-U.20121208.040-fig01

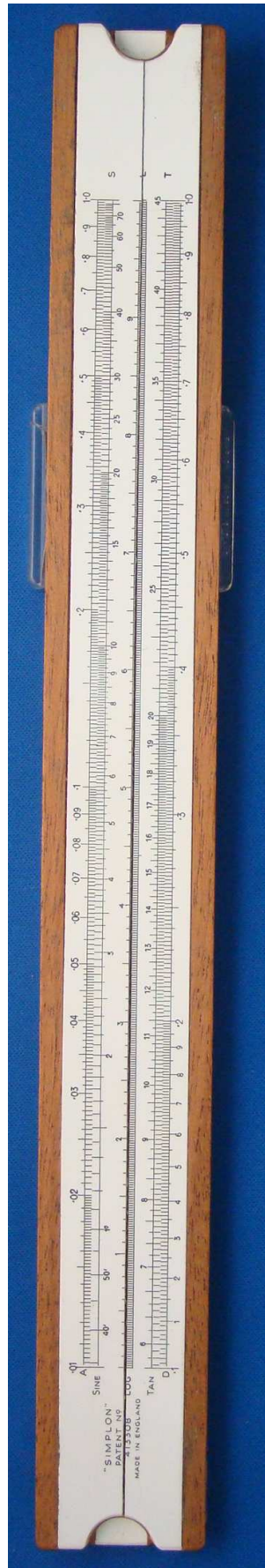


Figure 2: TCD-SCSS-U.20121208.040-fig02

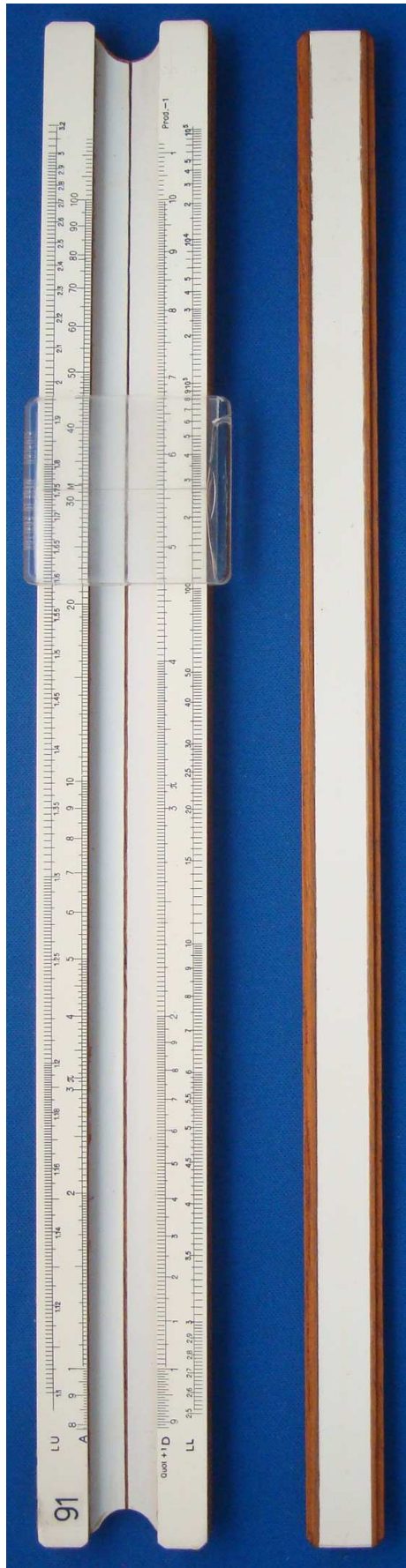


Figure 3: TCD-SCSS-U.20121208.040-fig03

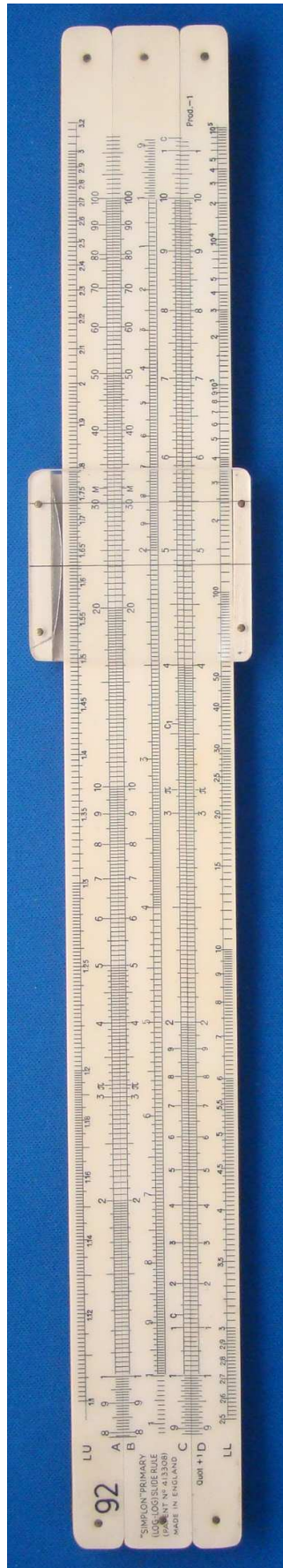


Figure 4: TCD-SCSS-U.20121208.040-fig04



Weight of Metals		Lb. per sq. in. = 231 ft. water = 2.04 in. mercury = 0.0703 kilo per sq. cm.		Circ. of circle = 3.1416 d.		Radian = $180^\circ/\pi = 57.29$ deg.		Grain = 0.0648 gramme; gram. = 15.43 grs.		Inch = 25.4 millimetres; millimetre = 0.03937 in.	
Wt. Iron	10.277	Atmosphere = 14.7 lb. per sq. in. = 33.54 ft. water = 1.0335	"	Area, "sq. arc to d. = 0.7854 d <sup>2</sup> .	"	Ratio of nat. or hyp. log. = e = 2.7183	"	Onco = 28.35 grams.; M <sup>g</sup> = 0.0357 lb.	"	Foot = 0.3048 metres; metre = 3.2809 feet.	"
Steel	0.283	Pl. hd. water = 0.433 lb. per sq. in. = 33.54 ft. water = 1.0335	"	Circ. of circle to d. = 3.1416	"	Angle of 1" = 0.000291 radian	"	Grain = 0.0648 gramme; gramme = 15.43 grs.	"	Yard = 0.9144 metres; metre = 1.0936 yds.	"
Copper	0.313	Gall. (imp.) = 277.27 cu. in. = 0.1604 cu. ft. = 10 lb. water = 4.54 litres.	"	Circ. of circle to d. = 3.1416	"	Abn. temp. = deg. F. - 32 = deg. C. + 32	"	Ton = 1.016 tonnes; tonne = 0.9842 ton.	"	Mile = 1.6093 kilometres; kilometre = 0.6213 mile	"
Brass	0.320	Litre = 1.76 pints = 0.22 gall. = 0.0338 cu. ft. = 0.264 U.S. gall.	"	Circ. of circle to d. = 3.1416	"	C. = $57.3 (F - 32) / 5$	"	Sq. in. = 6.4513 sq. cm.; sq. cm. = 0.155 sq. in.	"	Sq. ft. = 9.29 sq. decimetre; sq. decimetre = 0.1076 sq. ft.	"
Zinc	0.098	Horse-power = 33,000 ft.-lb. per min. = 0.746 kilowatt = 69.4 heat units per min.	"	Area of ellipse = 0.7854 a x b.	"	Cal. per 1000 = 1000	"	Sq. yd. = 0.8361 sq. metre; sq. metre = 1.196 sq. yd.	"	Sq. yd. = 0.8361 sq. metre; sq. metre = 1.196 sq. yd.	"
Lead	0.411	Foot-candle = 10.763 candles per sq. ft.	"	Area of ellipse = 0.7854 a x b.	"	Sp. heat - Wt. iron, 0.1138; C.I., 0.1288;	"	Cu. in. = 16.389 cu. cm.; cu. cm. = 0.06102 cu. in.	"	Cu. in. = 16.389 cu. cm.; cu. cm. = 0.06102 cu. in.	"
		Foot-pound = 1.36 joules = 0.1385 kilogrammetres.	"	Volume " cone = 0.2618 d <sup>2</sup> h	"	copper, brass, 0.055; lead, 0.0314,	"	Cu. ft. = 0.0283 c. metre; c. metre = 35.316 cu. ft.	"	Cu. ft. = 0.0283 c. metre; c. metre = 35.316 cu. ft.	"
		Kilowatt = 1.34 H.P. = 44,240 ft.-lb. per min. = 3412 heat units per hour.	"	"	"		"		"		"

Figure 5: TCD-SCSS-U.20121208.040-fig05

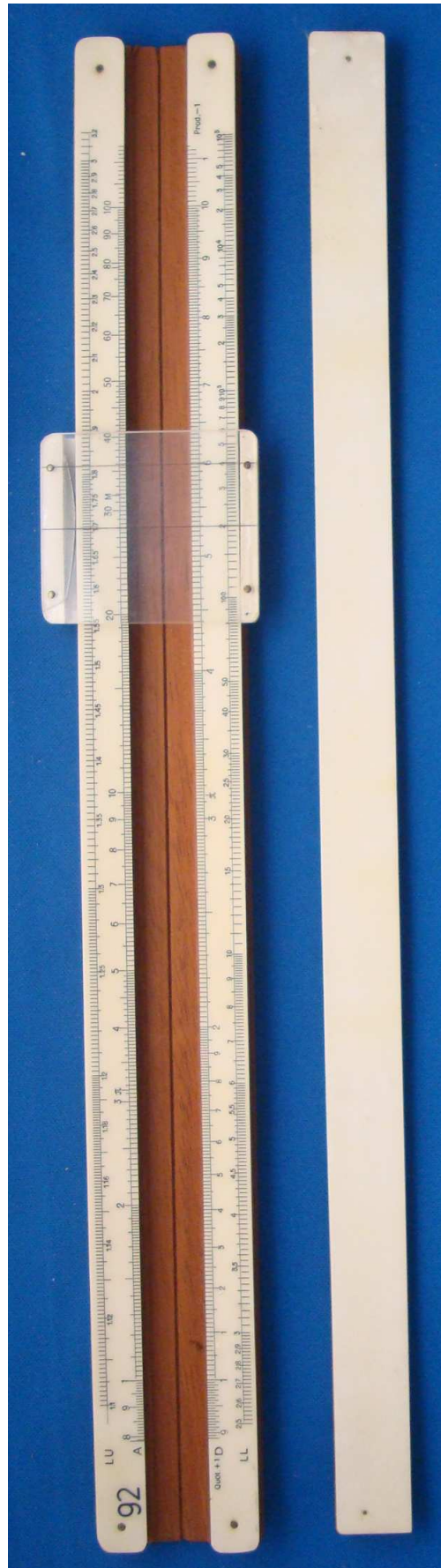


Figure 6: TCD-SCSS-U.20121208.040-fig06



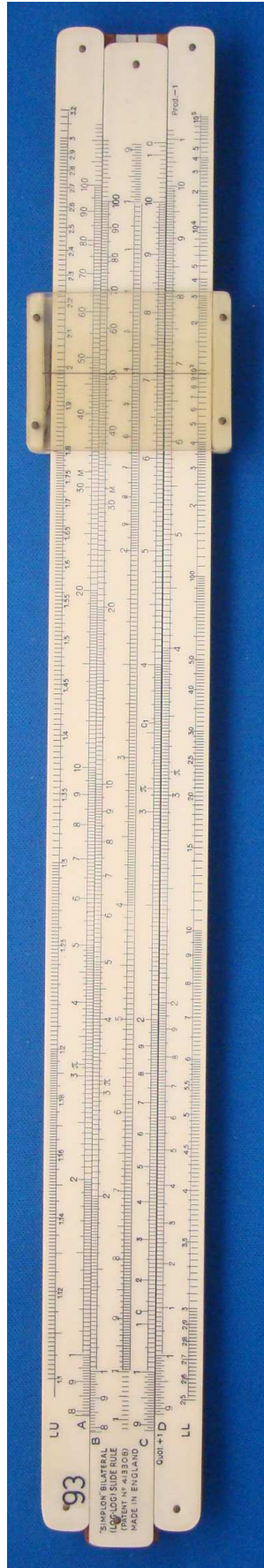


Figure 7: TCD-SCSS-U.20121208.040-fig07

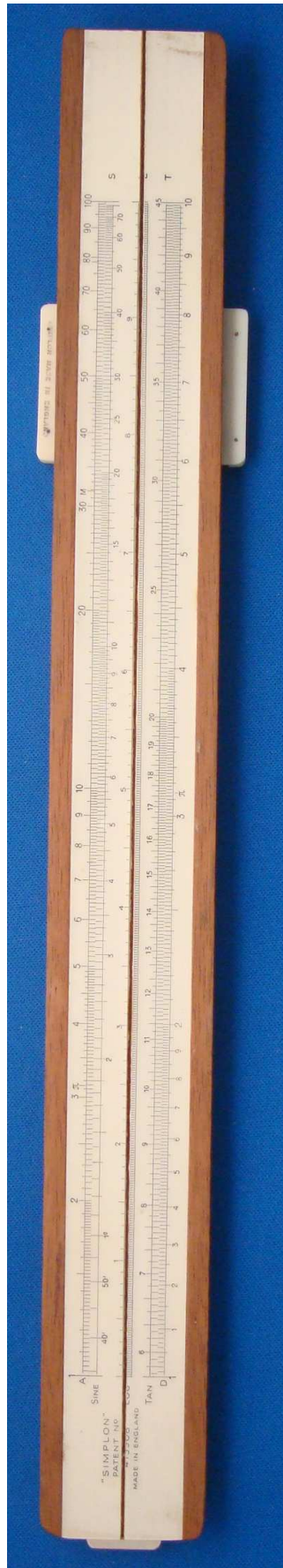


Figure 8: TCD-SCSS-U.20121208.040-fig08

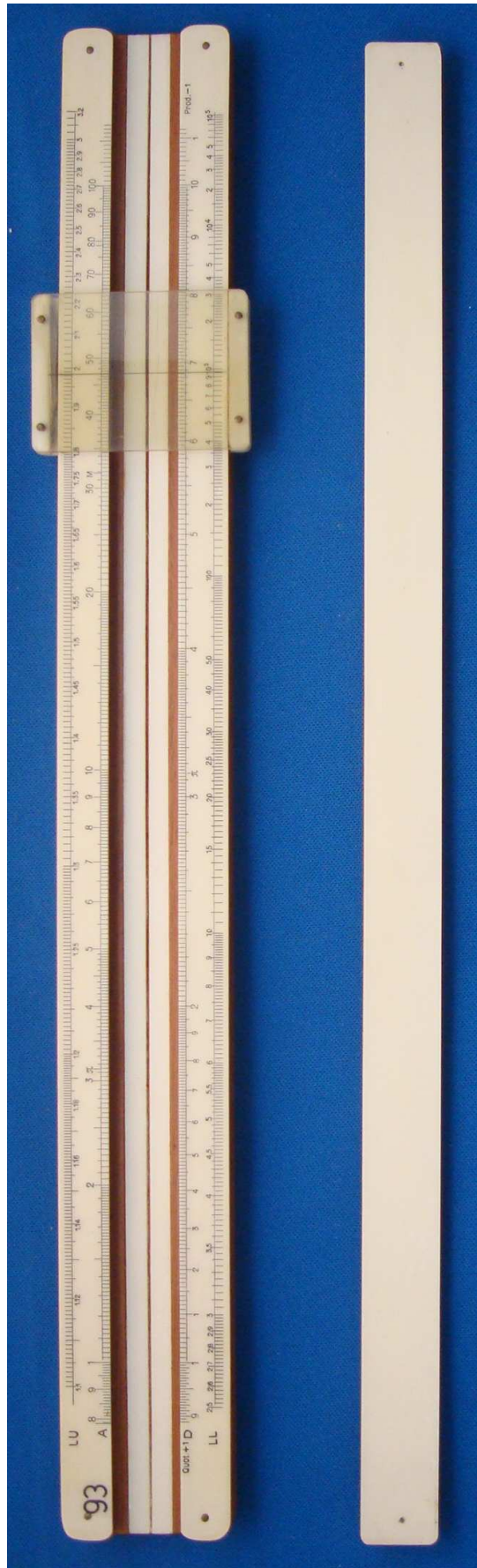


Figure 9: TCD-SCSS-U.20121208.040-fig09

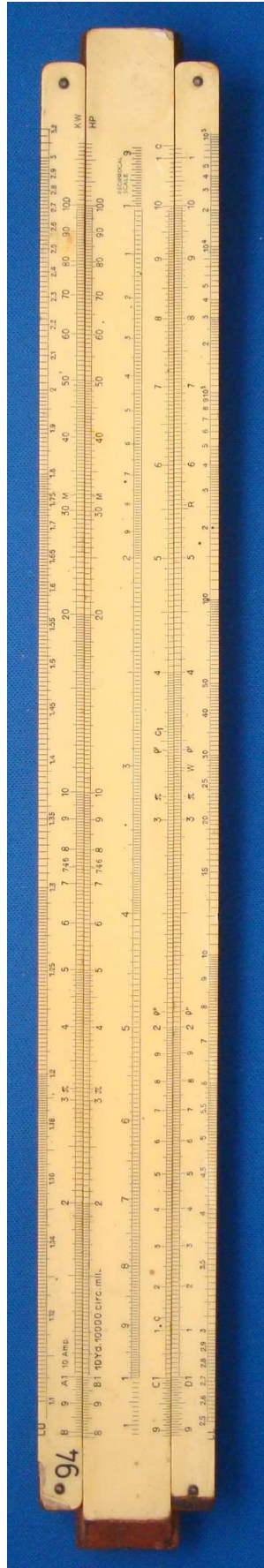


Figure 10: TCD-SCSS-U.20121208.040-fig10



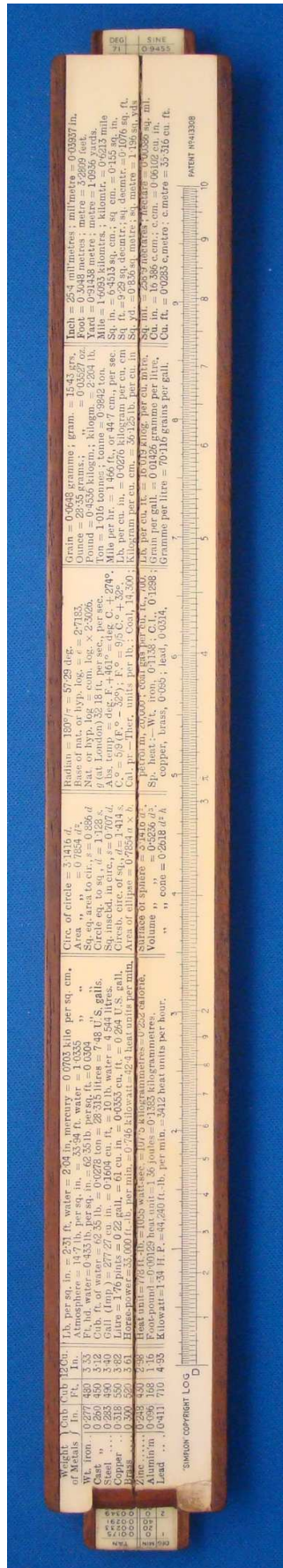


Figure 11: TCD-SCSS-U.20121208.040-fig11



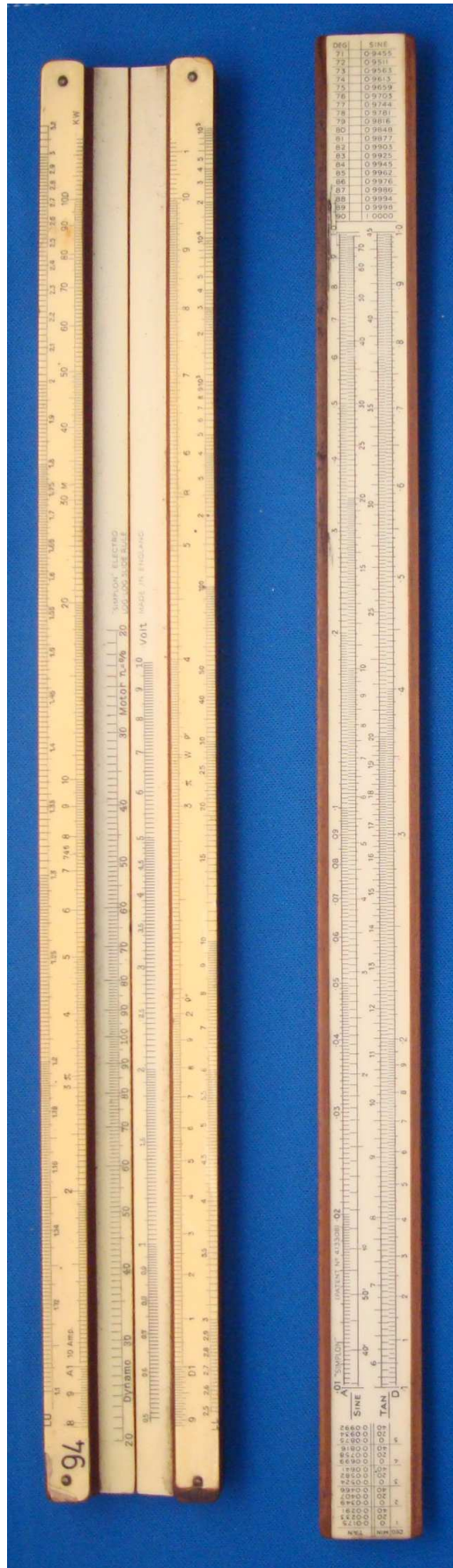


Figure 12: TCD-SCSS-U.20121208.040-fig12

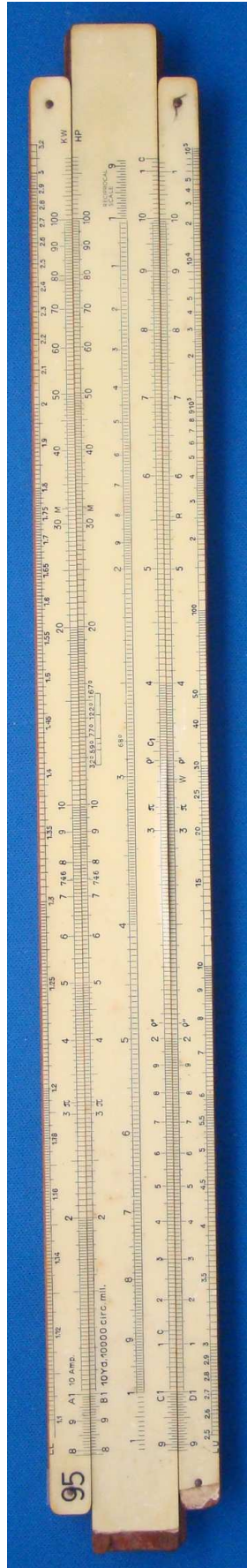


Figure 13: TCD-SCSS-U.20121208.040-fig13

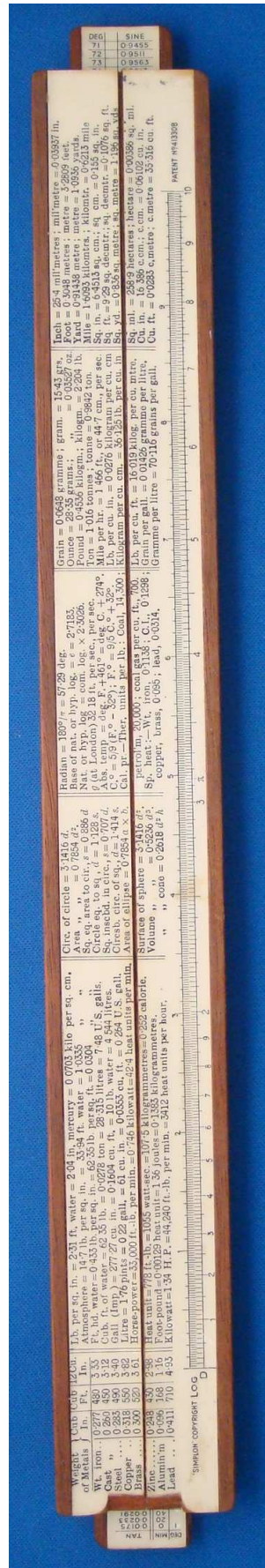
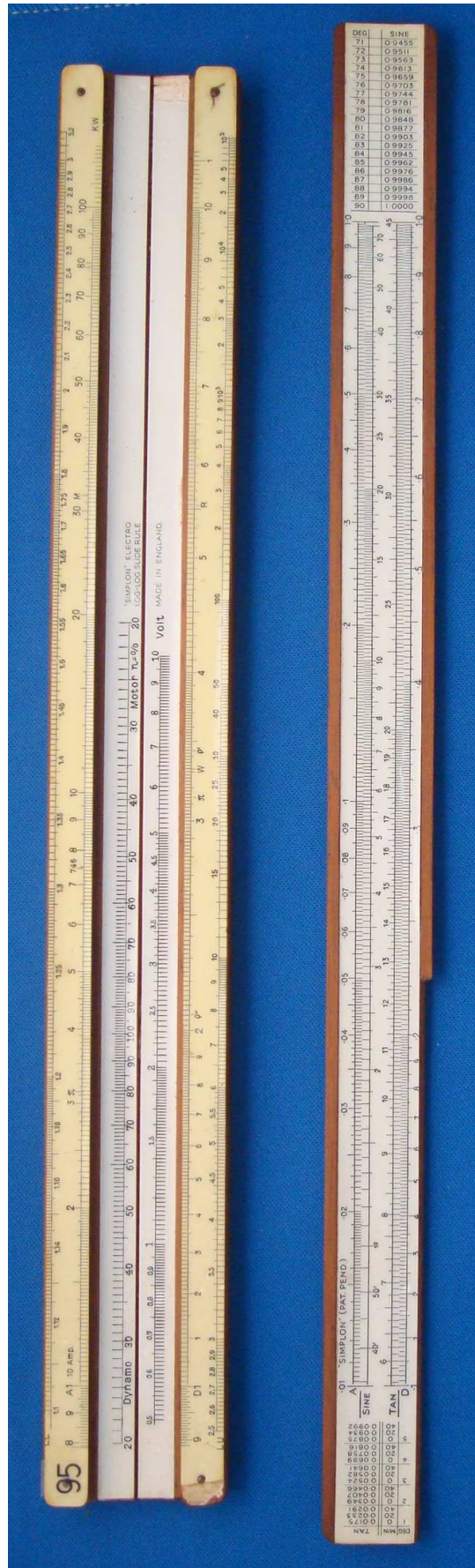


Figure 14: TCD-SCSS-U.20121208.040-fig14





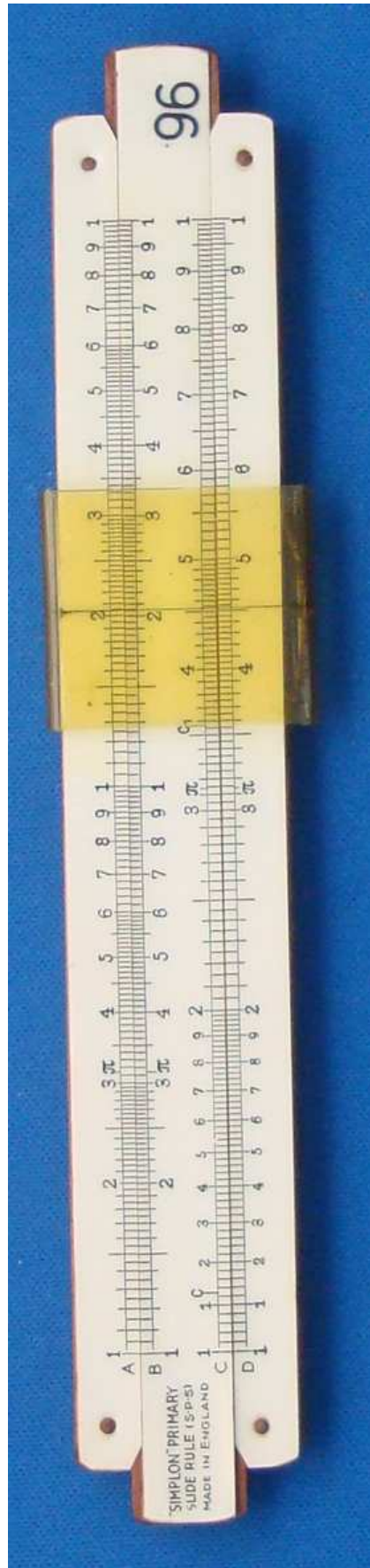


Figure 16: TCD-SCSS-U.20121208.040-fig16



Weight of Metals		Cub In.	Cub Ft.	12 Cu. In.		
Wt. iron...	0.277	480	3.33		Lb. per sq. in. = 2.31 ft. water = 2.04 in. mercury = 0.0703 kilo per sq. cm.	
Cast "	0.260	450	3.12		Atmosphere = 14.7 lb. per sq. in. = 33.94 ft. water = 1.0335 "	
Steel ....	0.283	490	3.40		Ft. hd. water = 0.433 lb. per sq. in. = 62.35 lb. persq. ft. = 0.0304 "	
Copper .....	0.318	550	3.82		Cub. ft. of water = 62.35 lb. = 0.0278 ton = 28.315 litres = 7.48 U.S. galls.	
Brass .....	0.300	520	3.61		Gall. (Imp.) = 277.27 cu. in. = 0.1604 cu. ft. = 10 lb. water = 4.544 litres.	
Zinc .....	0.248	430	2.98		Litre = 1.76 pints = 0.22 gall. = 61 cu. in. = 0.0353 cu. ft. = 0.264 U.S. gall.	
Alumin'm	0.096	168	1.16		Horse-power = 33,000 ft.-lb. per min. = 0.746 kilowatt = 42.4 heat units per min.	
Lead .....	0.411	710	4.93		Heat unit = 778 ft.-lb. = 1055 watt-sec. = 107.5 kilogrammetres = 0.252 calorie.	
					Foot-pound = 0.00129 heat unit = 1.36 joules = 0.1393 kilogrammetres.	
					Kilowatt = 1.34 H. P. = 44,240 ft.-lb. per min. = 3412 heat units per hour.	
					Circ. of circle = $3.1416 d$ .	
					Area " = $0.7854 d^2$ .	
					Sq. eq. area to cir., $s = 0.886 d$ .	
					Circle eq. to sq., $d = 1.128 s$ .	
					Sq. inscribd. in cir., $s = 0.707 d$ .	
					Circsb. circ. of sq., $d = 1.414 s$ .	
					Area of ellipse = $0.7854 a \times b$ .	
					Surface of sphere = $3.1416 d^2$ .	
					Volume " = $0.5236 d^3$ .	
					" " cone = $0.2618 d^3 h$ .	

Figure 17: TCD-SCSS-U.20121208.040-fig17

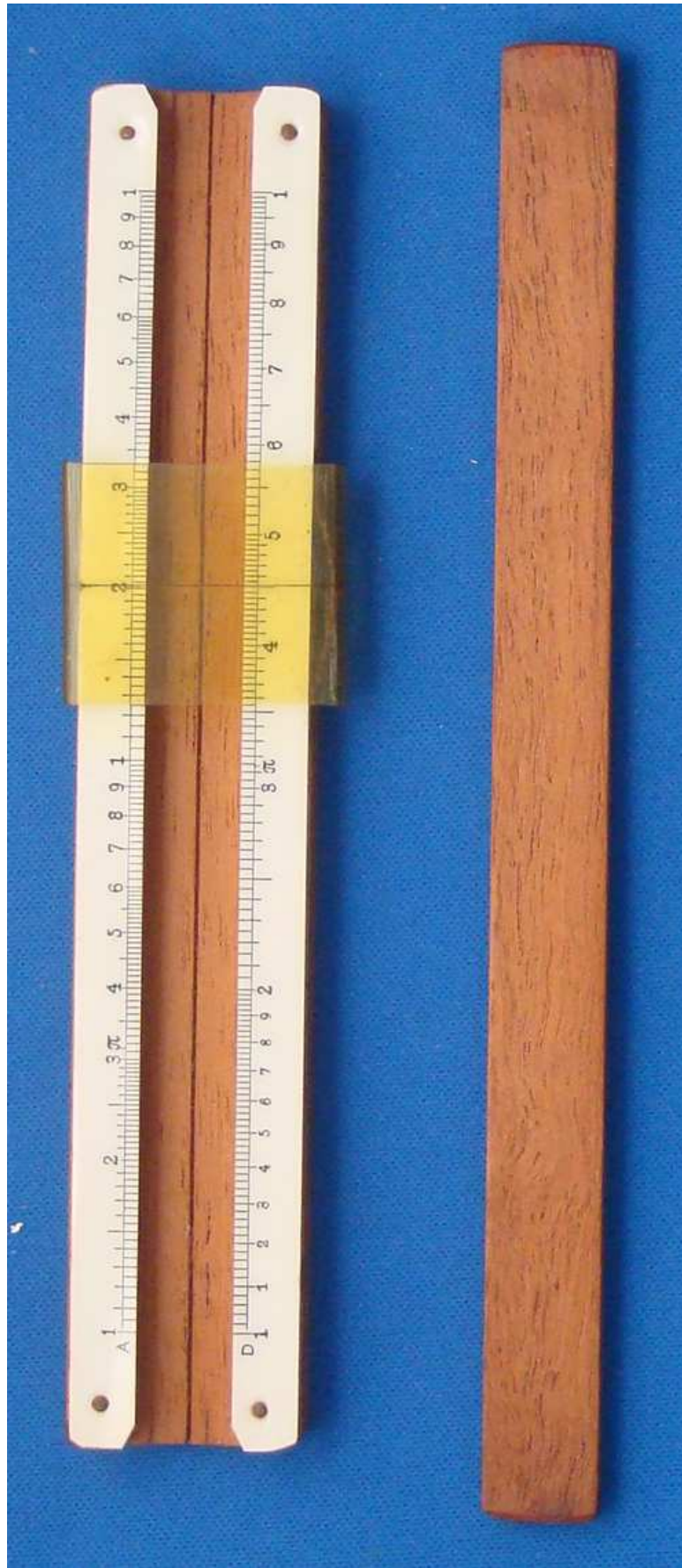


Figure 18: TCD-SCSS-U.20121208.040-fig18

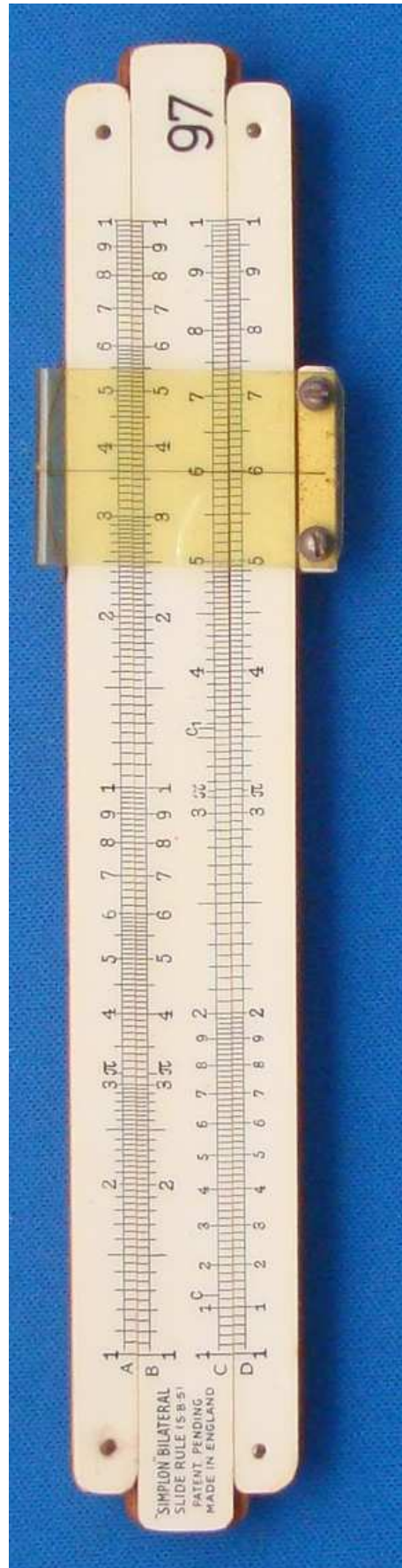


Figure 19: TCD-SCSS-U.20121208.040-fig19



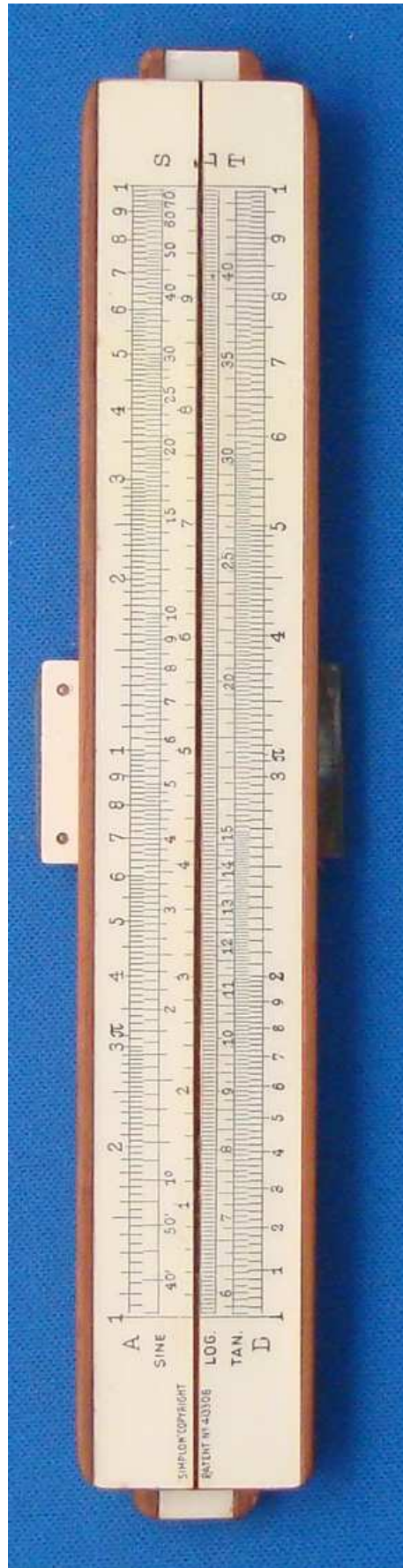


Figure 20: TCD-SCSS-U.20121208.040-fig20

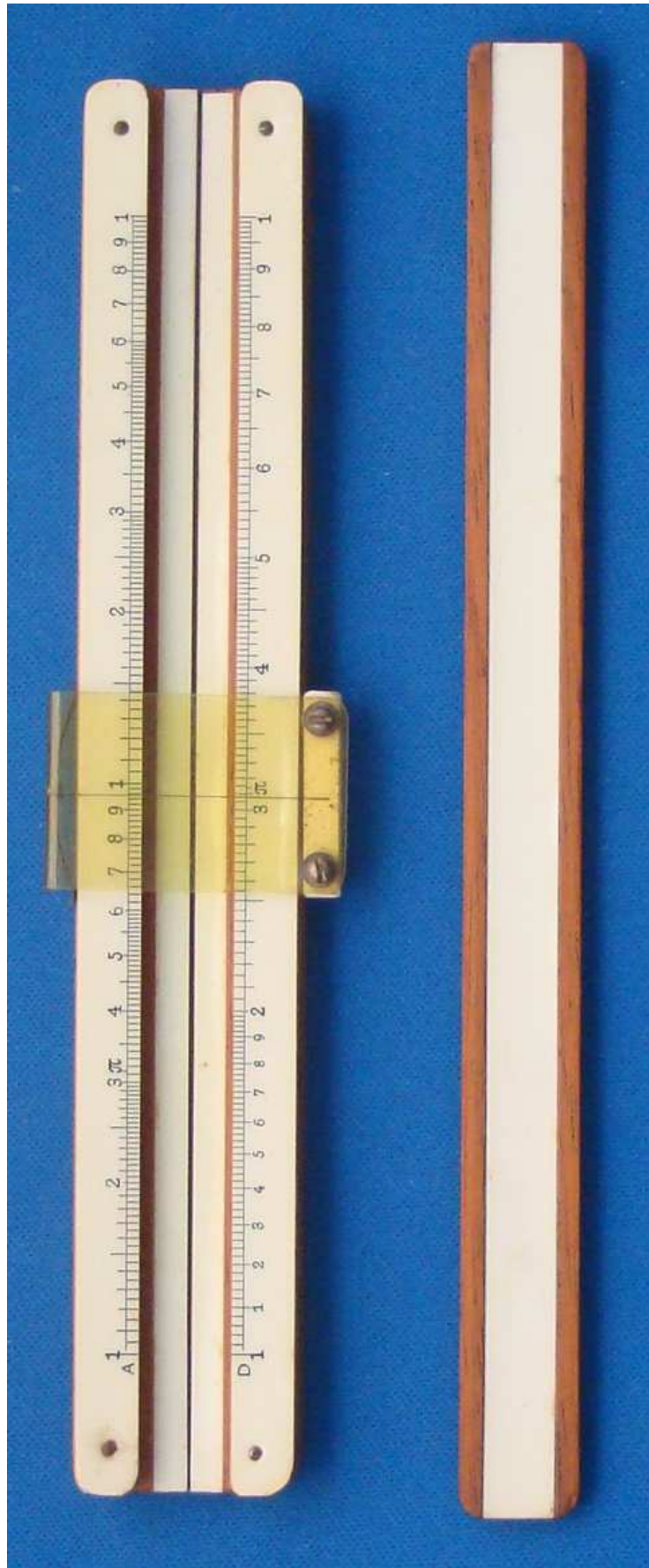


Figure 21: TCD-SCSS-U.20121208.040-fig21