

AccessionIndex: TCD-SCSS-U.20121208.004

Accession Date: 8-Dec-2012

Accession By: Prof.J.G.Byrne

Object name: Aristo

Vintage: c.19xx

Synopsis: Sliderules.

Description:

Text ...

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

Accession Index	Location	Vintage	Object and Identification
TCD-SCSS-U.20121208.004.01		c.19xx	<Mfgr?> <model?> sliderule. S/N: <???
TCD-SCSS-U.20121208.004.02		c.19xx	
TCD-SCSS-U.20121208.004.03		c.198x	
TCD-SCSS-U.20121208.004.04		c.198x	
TCD-SCSS-U.20121208.004.05		c.198x	
TCD-SCSS-U.20121208.004.06		c.19xx	
TCD-SCSS-U.20121208.004.07		c.198x	
TCD-SCSS-U.20121208.004.08		c.198x	
TCD-SCSS-U.20121208.004.09		c.198x	
TCD-SCSS-U.20121208.004.10		c.19xx	
TCD-SCSS-U.20121208.004.11		c.198x	
TCD-SCSS-U.20121208.004.12		c.198x	
TCD-SCSS-U.20121208.004.13		c.198x	
TCD-SCSS-U.20121208.004.14		c.19xx	
TCD-SCSS-U.20121208.004.15		c.198x	
TCD-SCSS-U.20121208.004.16		c.198x	
TCD-SCSS-U.20121208.004.17		c.198x	
TCD-SCSS-U.20121208.004.18		c.19xx	

TCD-SCSS-U.20121208.004.19		c.198x	
TCD-SCSS-U.20121208.004.20		c.198x	
TCD-SCSS-U.20121208.004.21		c.198x	
TCD-SCSS-U.20121208.004.22		c.19xx	
TCD-SCSS-U.20121208.004.23		c.198x	
TCD-SCSS-U.20121208.004.24		c.198x	
TCD-SCSS-U.20121208.004.25		c.198x	
TCD-SCSS-U.20121208.004.26		c.19xx	
TCD-SCSS-U.20121208.004.27		c.198x	
TCD-SCSS-U.20121208.004.28		c.198x	
TCD-SCSS-U.20121208.004.29		c.198x	
TCD-SCSS-U.20121208.004.30		c.198x	
TCD-SCSS-U.20121208.004.31		c.198x	
TCD-SCSS-U.20121208.004.32		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.

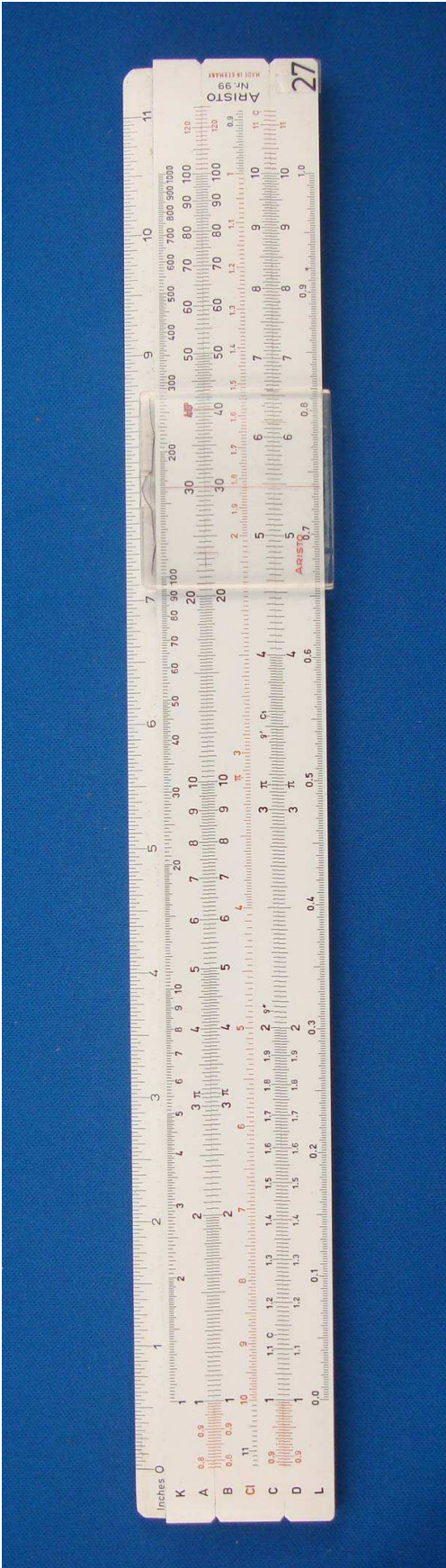


Figure 1: TCD-SCSS-U.20121208.004-fig01

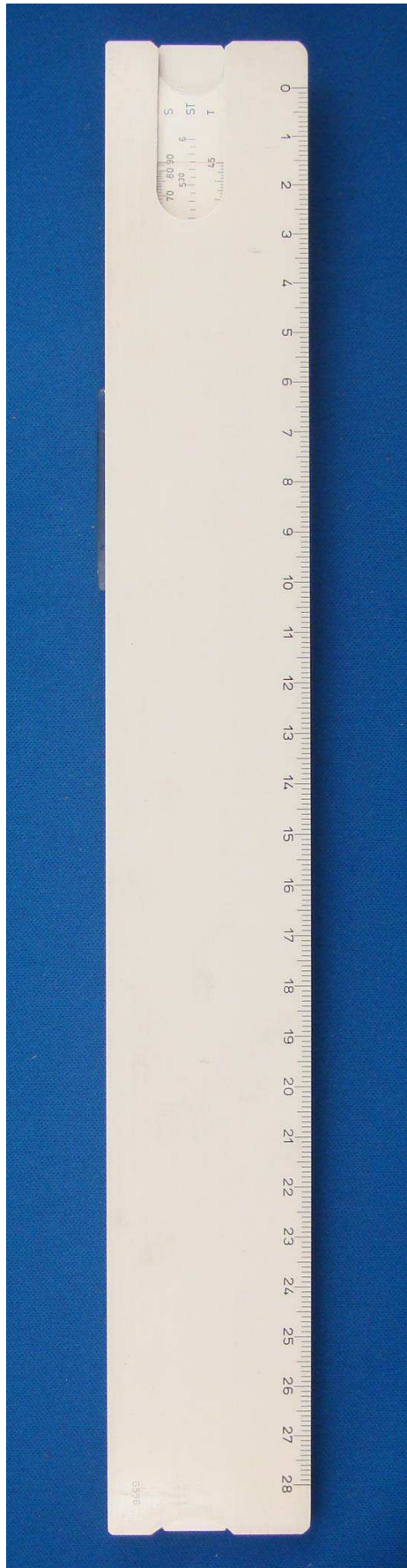


Figure 2: TCD-SCSS-U.20121208.004-fig02

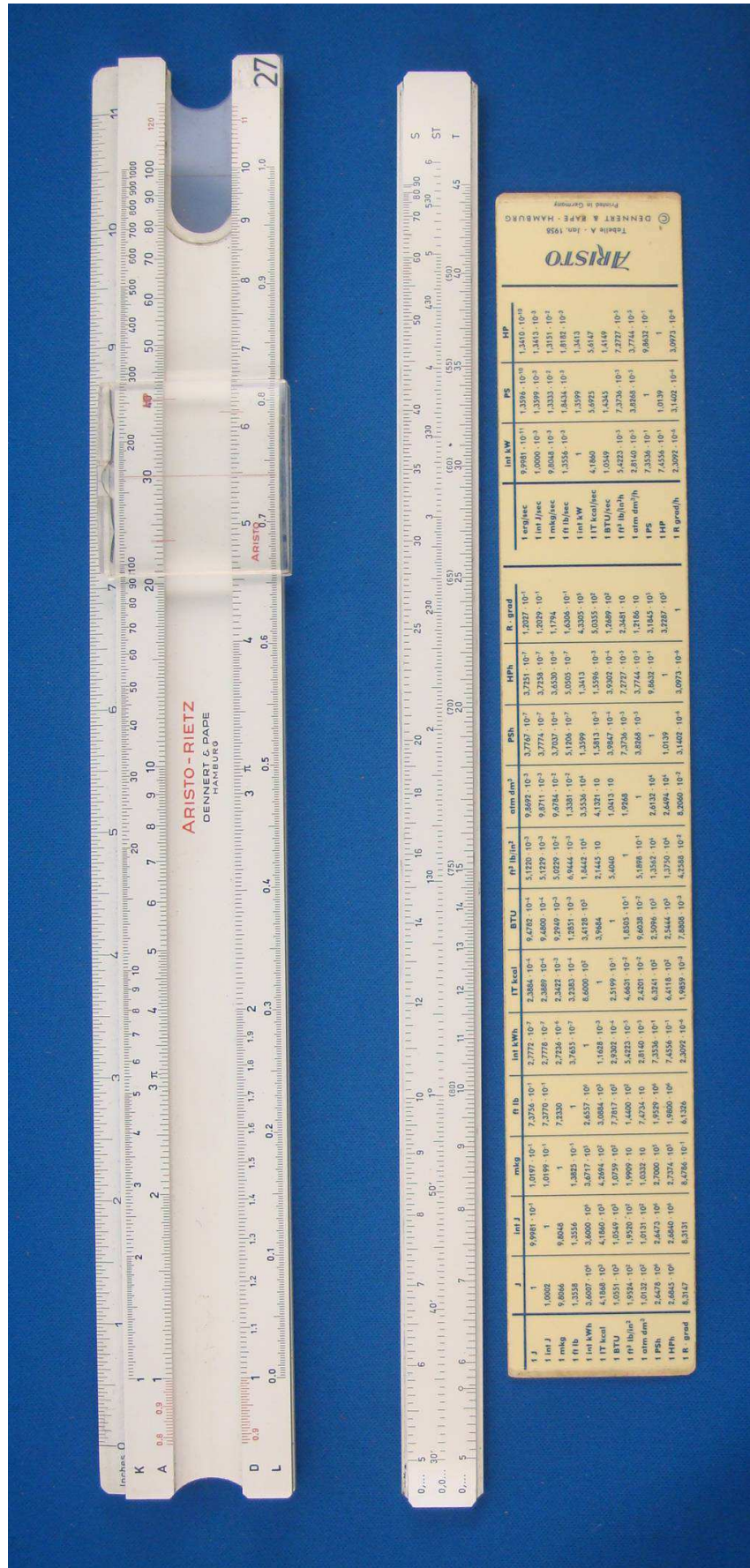


Figure 3: TCD-SCSS-U.20121208.004-fig03

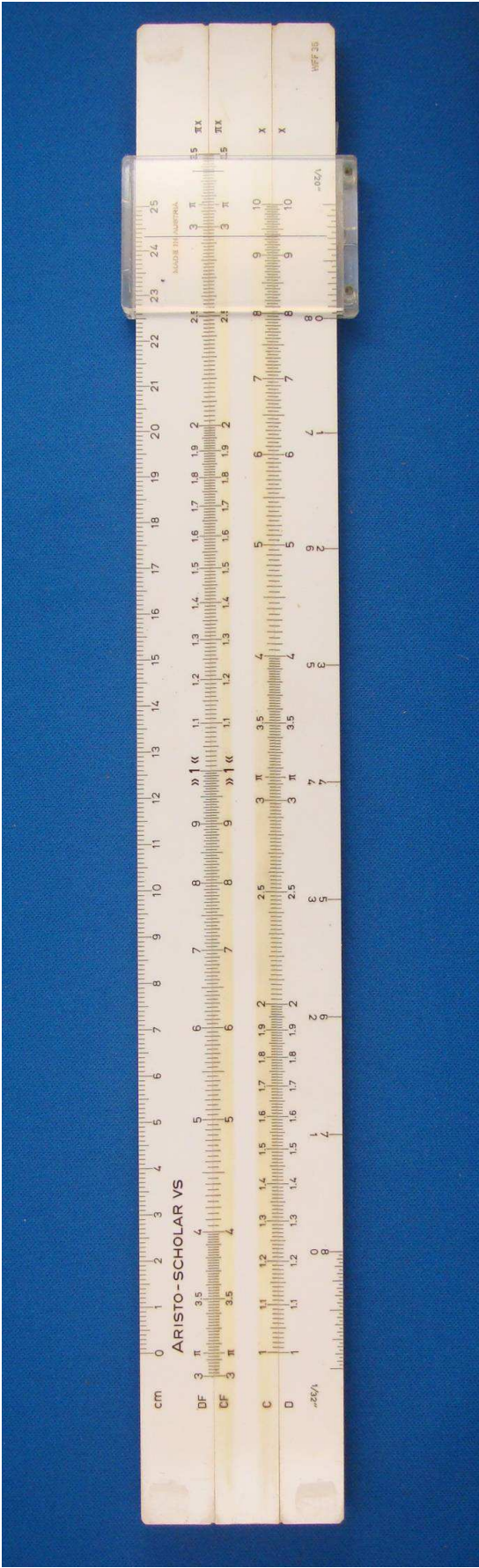


Figure 5: TCD-SCSS-U.20121208.004-fig05

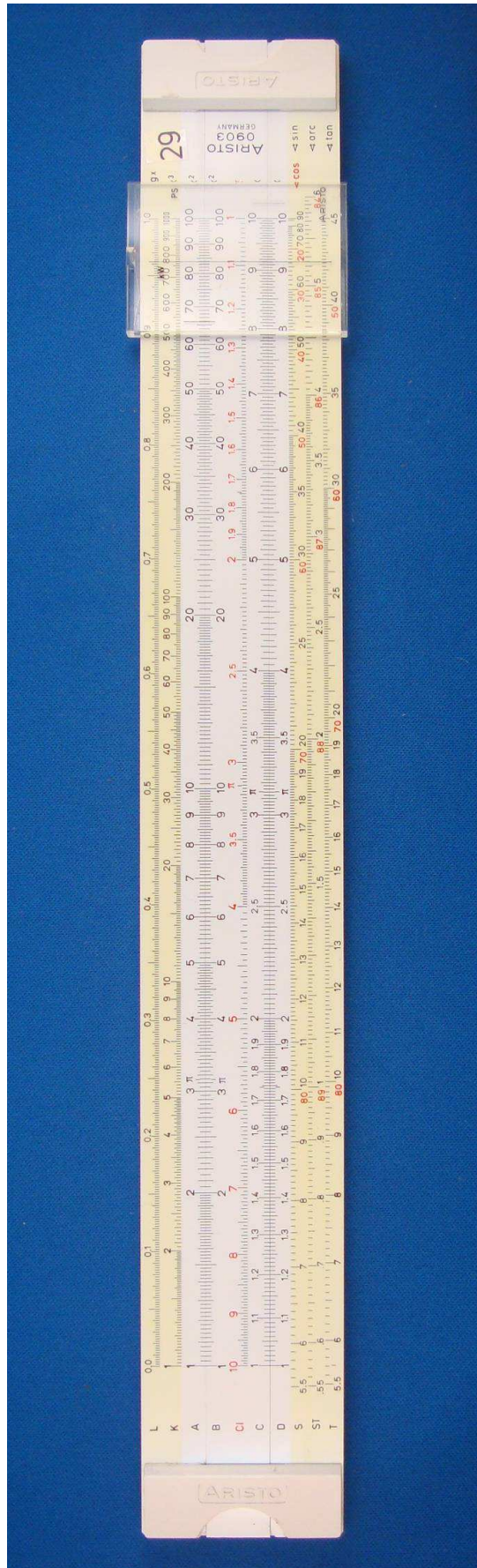


Figure 6: TCD-SCSS-U.20121208.004-fig06

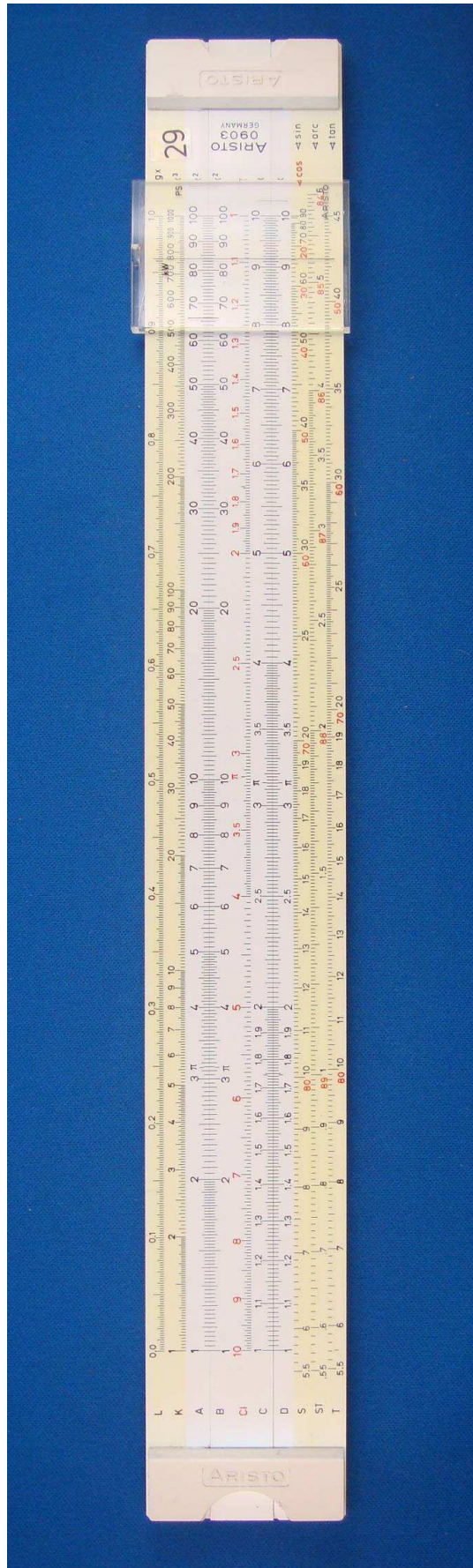


Figure 7: TCD-SCSS-U.20121208.004-fig07

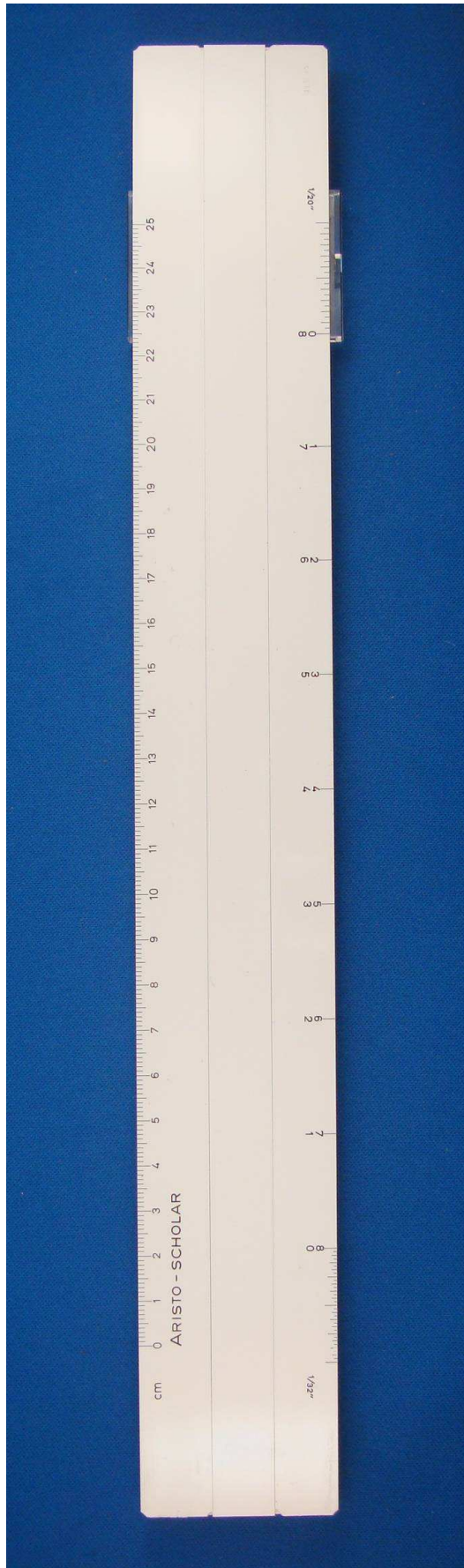


Figure 8: TCD-SCSS-U.20121208.004-fig08



Figure 9: TCD-SCSS-U.20121208.004-fig09

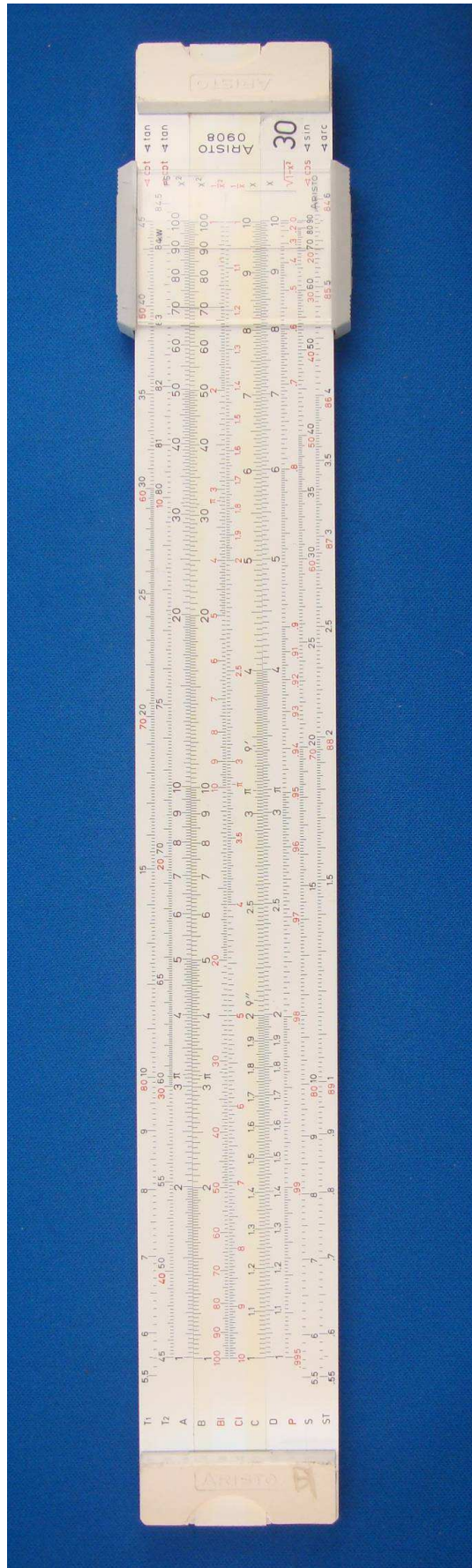


Figure 10: TCD-SCSS-U.20121208.004-fig10

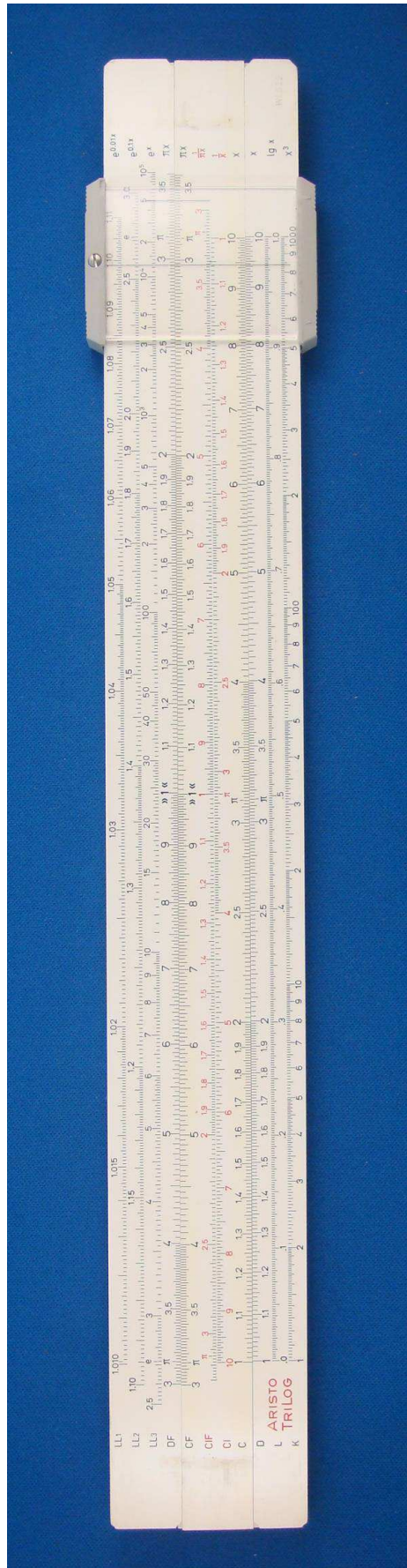


Figure 11: TCD-SCSS-U.20121208.004-fig11

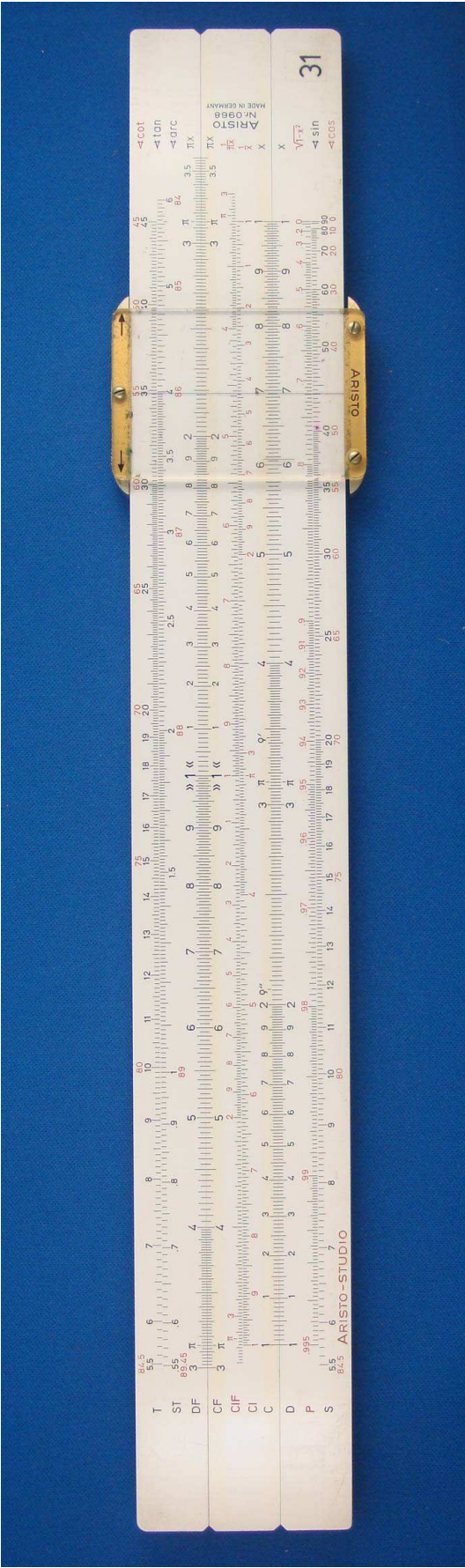


Figure 14: TCD-SCSS-U.20121208.004-fig14

1 in	= 2.5400 cm	1 sq in	= 6.4516 cm ²	1 gal	= 4 qt	1 in H ₂ O	= 3.421 · 10 ⁻² atm	1 lb/in	= 1.7858 · 10 ⁻² kg/cm	1 HK	= 0.866 IK	1 BTU	= 0.2520 IT kcal
1 ft	= 0.3048 m	1 sq ft	= 9.2903 dm ²	1 qt	= 2 pt	1 in H ₂ O	= 2.4583 · 10 ⁻² atm	1 lb/ft	= 1.4882 kg/m	1 cd	= 0.981 IK	1 BTU/lb	= 0.5555 IT kcal/kg
1 yd	= 0.9144 m	1 sq yd	= 0.8361 m ²	1 imp gal	= 277.42 cu in	1 lb/eq in	= 6.8046 · 10 ⁻² atm	1 lb/yd	= 4.9606 · 10 ⁻¹ kg/m	1 IK	= 1.019 cd	1 BTU/°F	= 0.4536 IT kcal/°C
1 fathom	= 1.8288 m	1 acre	= 40.4684 a	1 US gal	= 231.00 cu in	1 in Hg	= 3.4532 · 10 ⁻² at	1 lb/cu in	= 2.7680 · 10 ⁻² kg/cm ³	1 bougie décimale	= 1.12 HK	1 BTU/lb °F	= 1.0000 IT kcal/lb °C
1 stat mile	= 1.6093 km	1 sq mile	= 2.5999 km ²	1 imp bu	= 8 imp gal	1 in H ₂ O	= 2.5400 · 10 ⁻² at	1 lb/cu yd	= 1.6019 · 10 ⁻¹ kg/m ³	1 sperm candle	= 1.14 HK	1 BTU/lb °F	= 1.4864 IT kcal/lb °C
1 naut mile	= 1.8532 km	1 acre	= 4840 sq yd	1 US bu	= 9.3092 US gal	1 lb/eq in	= 7.0207 · 10 ⁻² at	1 lb/cu ft	= 5.9228 · 10 ⁻¹ kg/m ³	1 pentan candle	= 1.11 HK	1 BTU/lb °F	= 1.7858 IT kcal/lb °C
1 int mile	= 1.8520 km	1 sq yd	= 0.8361 m ²	1 oz	= 28.3495 g	1 in Hg	= 3.3464 · 10 ⁻² bar	1 oz/cu in	= 1.7000 g/cm ³	1 VK	= 1.20 HK	1 BTU/lb °F	= 4.8824 IT kcal/m ² °C
1 toise (Paris)	= 1.9590 m	1 cu ft	= 28.3167 dm ³	1 lb	= 0.4536 kg	1 lb/eq in	= 6.8046 · 10 ⁻² bar	1 lb/imp gal	= 9.9779 · 10 ⁻² kg/dm ³	1 BTU/aq in °F	= 10.75 HK	1 BTU/aq in °F	= 702.07 IT kcal/m ² °C
1 ligne (Paris)	= 2.2538 mm	1 cu ft	= 28.3167 dm ³	1 cwt	= 50.8024 kg	1 Torr	= 1.33323 kg/cm ²	1 lb/US gal	= 1.1983 · 10 ⁻¹ kg/dm ³	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C
1 ft	= 12 in	1 cu ft	= 0.7646 m ³	1 ton	= 1.0160 t	1 atm	= 1.03323 kg/cm ²	1 oz/cu ft	= 1.0012 kg/dm ³	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C
1 yd	= 3 ft	1 pint	= 0.5683 dm ³	1 sh cwt	= 45.3592 kg	1 at	= 0.9878 atm	1 lb/pint	= 7.9823 · 10 ⁻¹ kg/dm ³	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C
1 fathom	= 2 yd	1 imp gal	= 4.5460 dm ³	1 sh ton	= 0.972 t	1 bar	= 1.01972 kg/cm ²	1 lb/min	= 2.716 · 10 ⁻¹ kg/h	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C
1 stat mile	= 1760 yd	1 US gal	= 3.7854 dm ³	1 sh ton	= 2000 lb	1 br atm	= 30 in Hg	1 lb/sec	= 1.6229 t/h	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C
1 naut mile	= 2026.7 yd	1 US qt	= 0.9463 dm ³	1 ton	= 2240 lb	1 br atm	= 30 in Hg	1 lb/sec	= 1.6229 t/h	1 BTU/aq ft	= 10.75 HK	1 BTU/aq ft	= 2.7124 IT kcal/m ² °C

Figure 17: TCD-SCSS-U.20121208.004-fig17

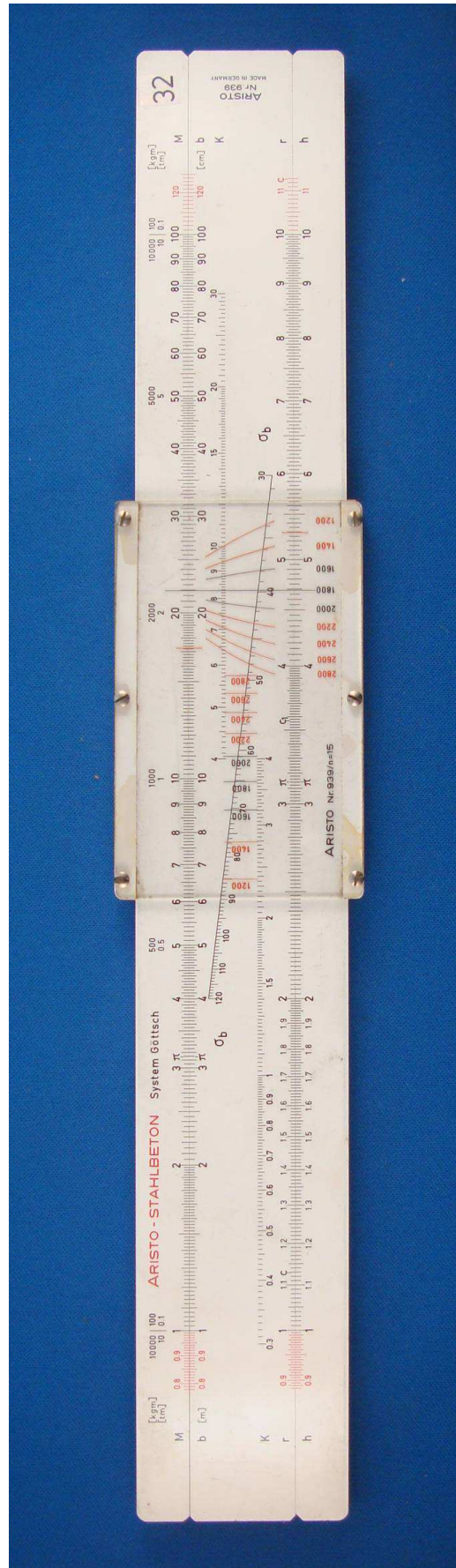


Figure 18: TCD-SCSS-U.20121208.004-fig18

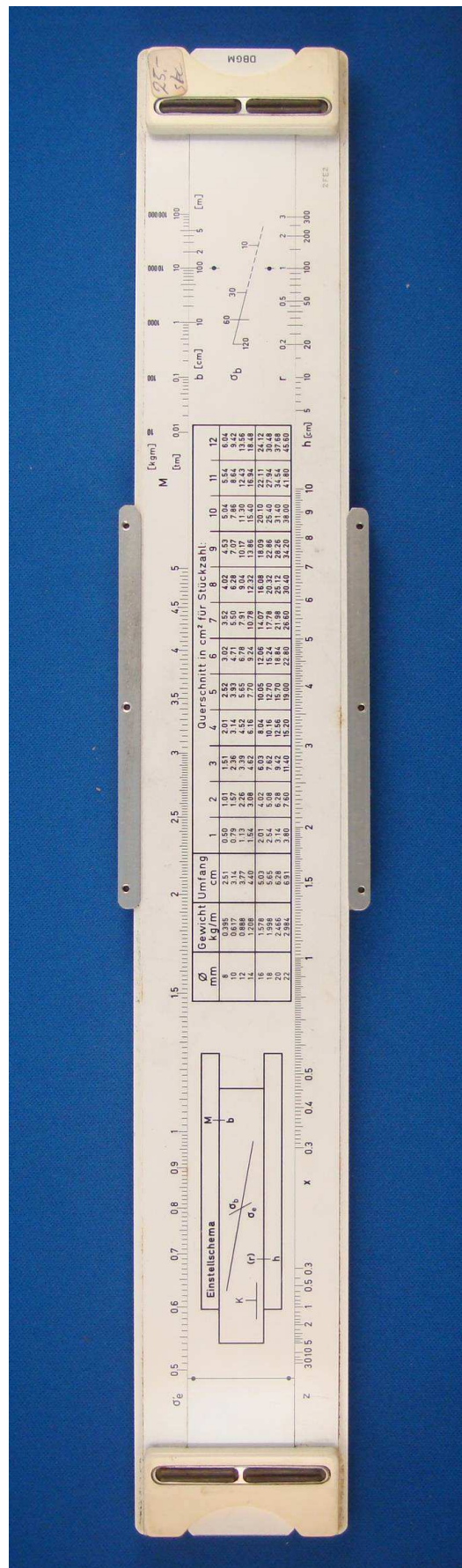


Figure 19: TCD-SCSS-U.20121208.004-fig19

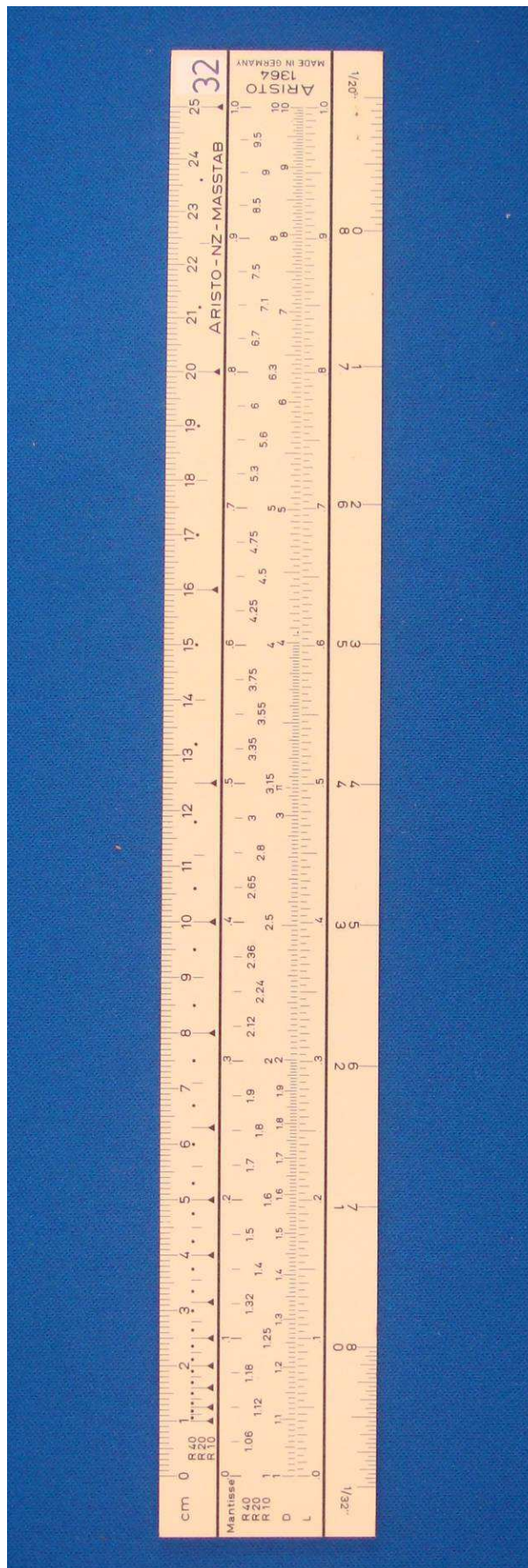


Figure 20: TCD-SCSS-U.20121208.004-fig20

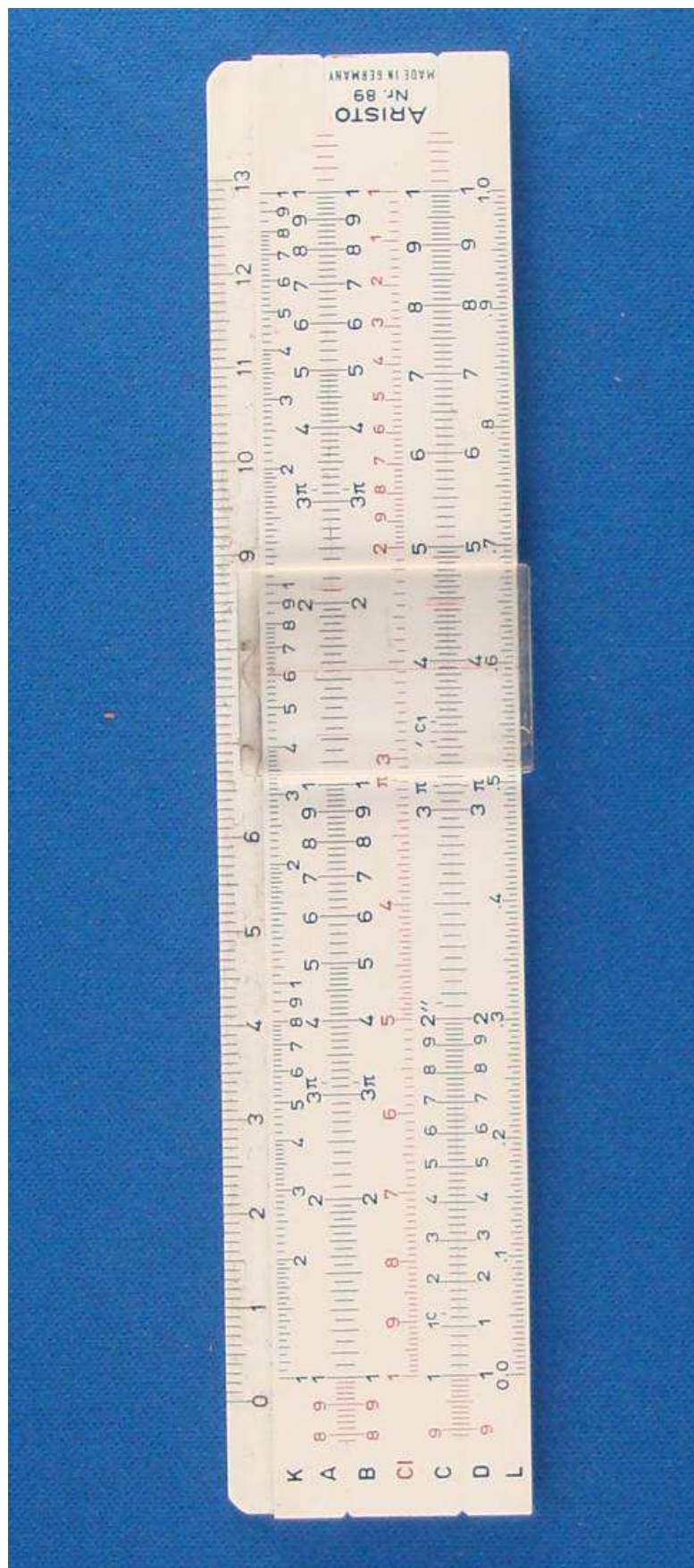


Figure 22: TCD-SCSS-U.20121208.004-fig22

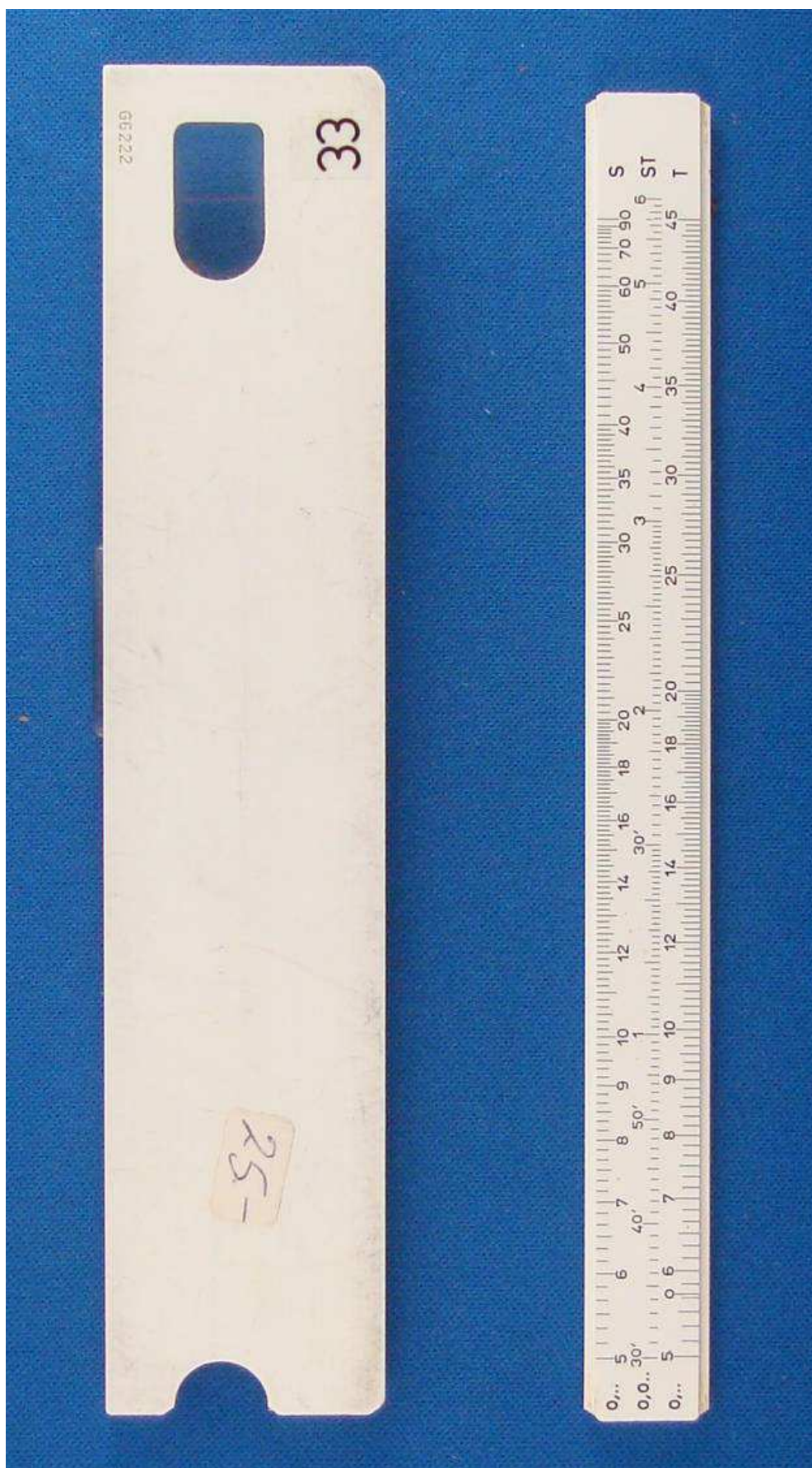


Figure 23: TCD-SCSS-U.20121208.004-fig23

ARISTO - RIETZ 89

1. Die Skalen

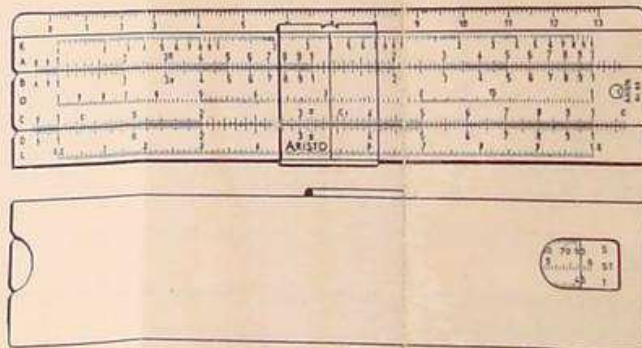


Abb. 1

Die Teilungen des Rechenstabes ARISTO-Rietz 89 (Abb. 1) sind ähnlich wie bei einem Maßstab aufgebaut. Jedoch sind die Intervalle dieser Teilungen nicht gleich groß, sondern werden nach rechts immer kleiner. Wie beim Millimeter-Maß die Bezeichnung „12“ verschiedene Werte bedeuten kann — z. B. 12 cm, 120 mm, 0,12 m usw. —, so sind auch die Ziffern des Rechenstabes vieldeutig in bezug auf die Kommastellung, daher werden nur Ziffernfolgen abgelesen.

Die bezifferten Teilstriche geben die 1. Stelle der Ablesung, die 2. Stelle wird an den etwas kleineren unbezifferten Teilstrichen abgelesen, die 3. Stelle der Zahl wird an den kleinsten Teilstrichen abgelesen oder zwischen diesen geschätzt. Abb. 2 zeigt die immer wiederkehrenden Teilungsbilder an Hand einiger Ausschnitte aus den Skalen C bzw. D.

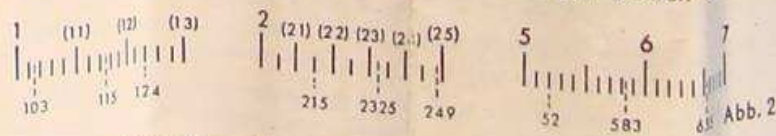


Abb. 2

Wenn Sie die in obiger Abbildung enthaltenen Beispiele mit Ihrem Rechenstab einstellen, wird Ihnen sehr bald der Aufbau aller Skalen klar sein.

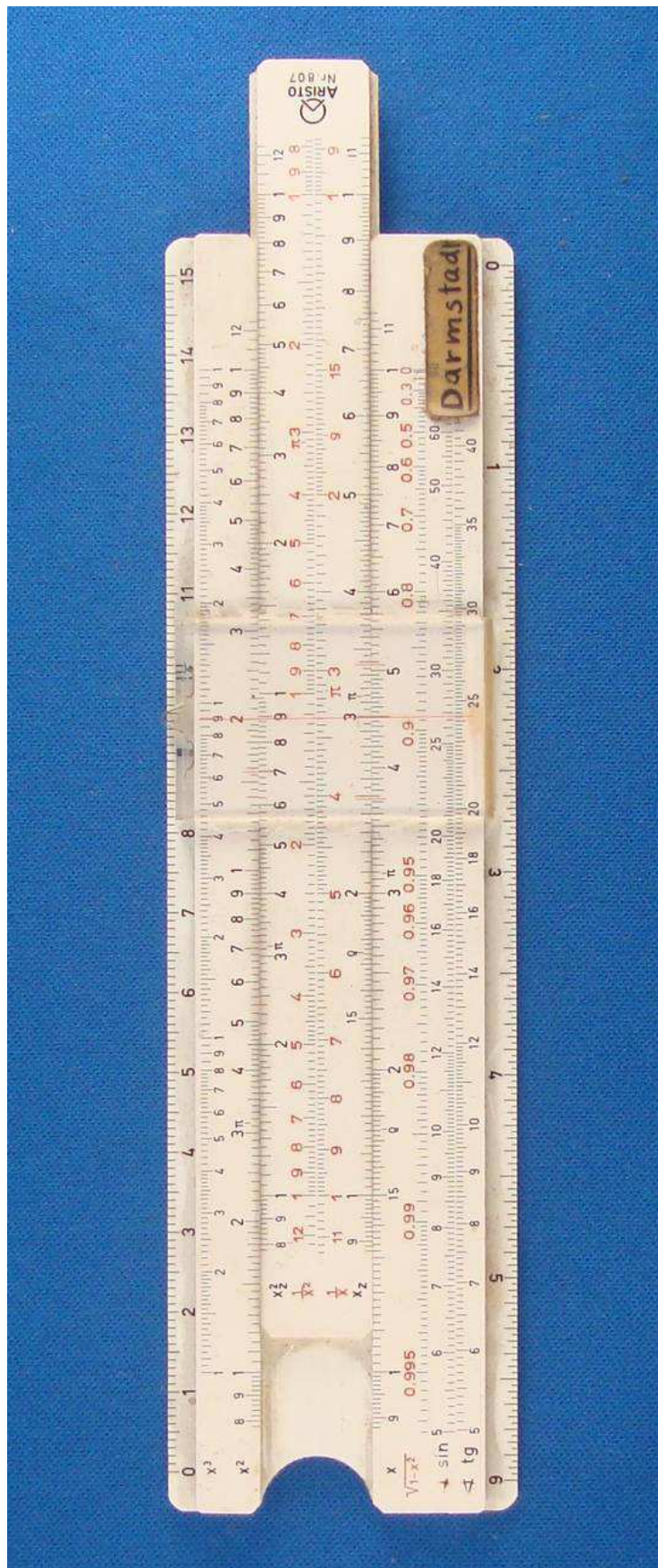


Figure 25: TCD-SCSS-U.20121208.004-fig25



Figure 26: TCD-SCSS-U.20121208.004-fig26

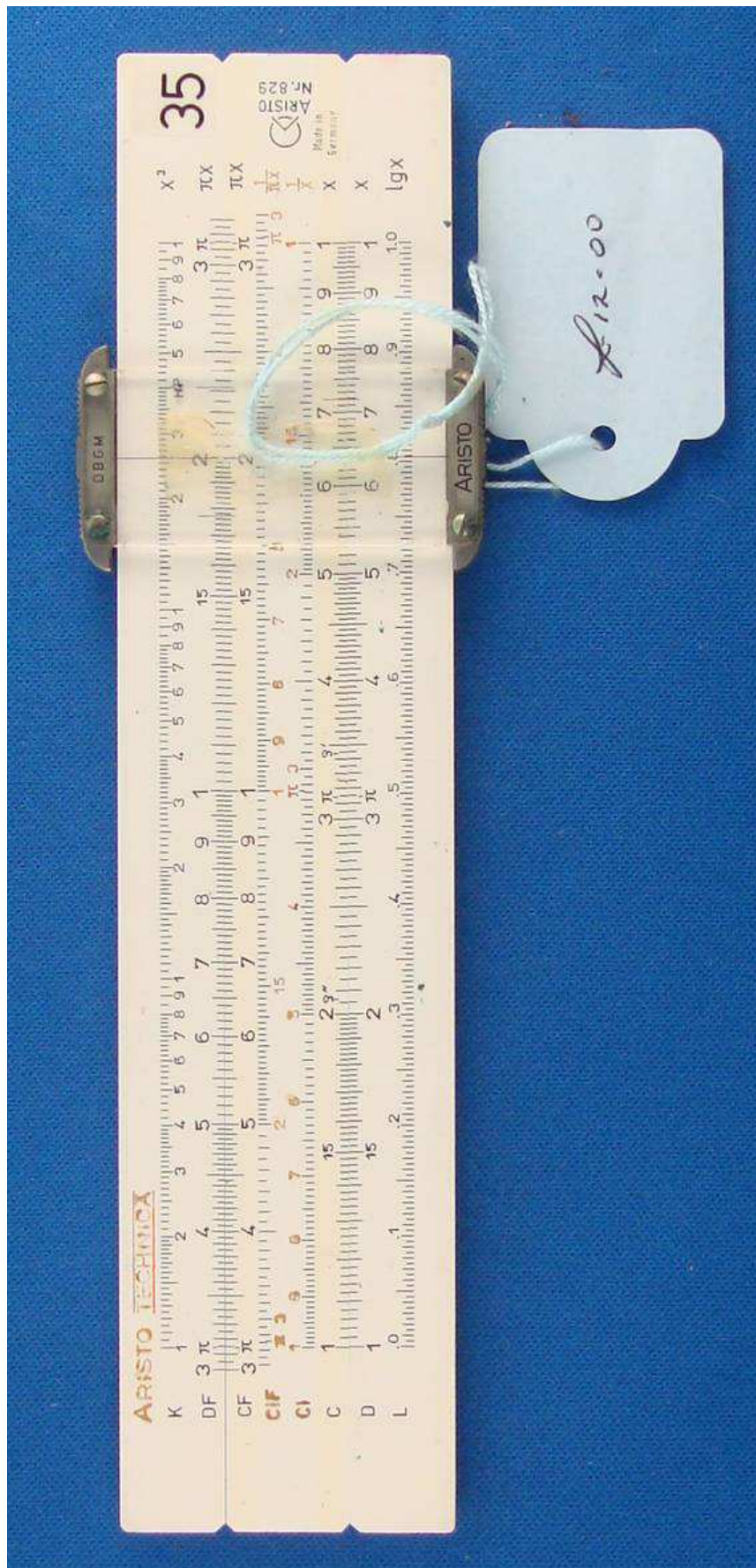


Figure 27: TCD-SCSS-U.20121208.004-fig27

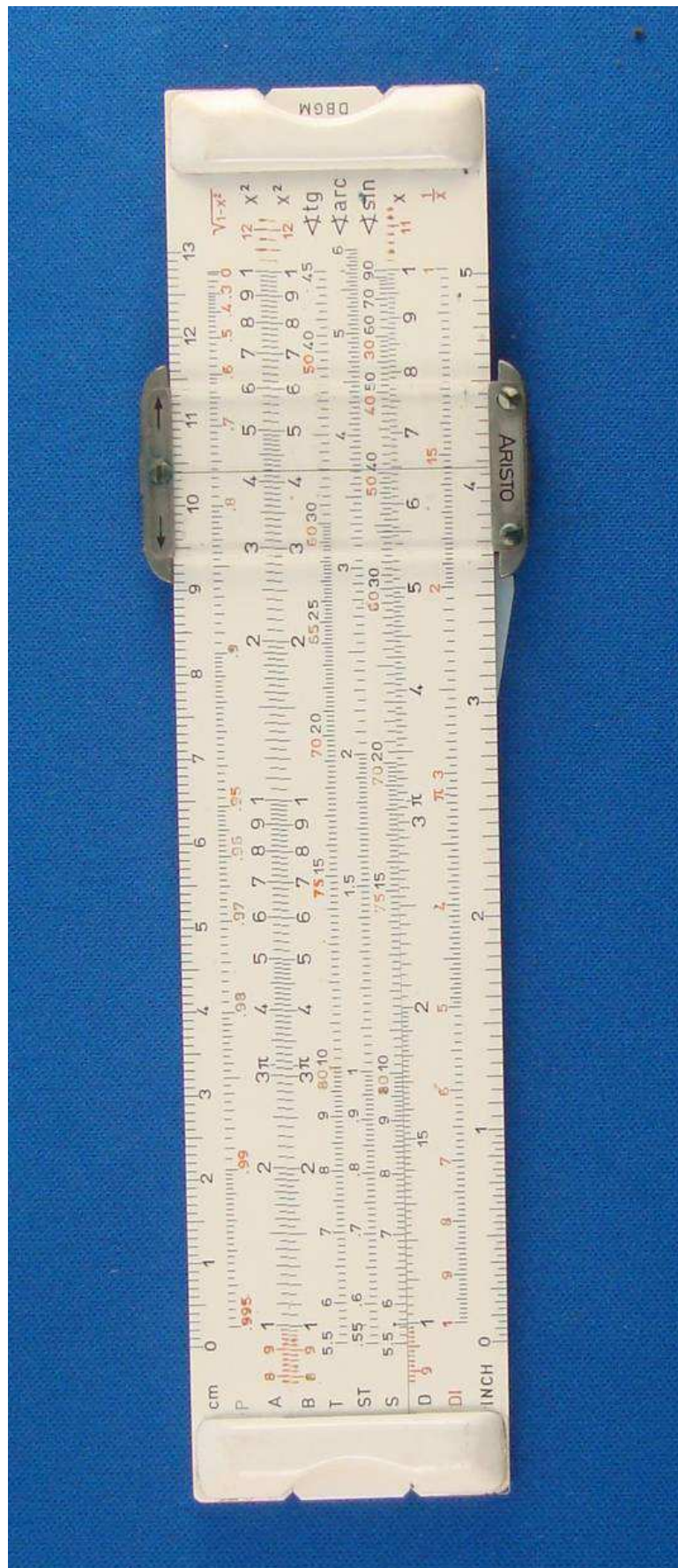


Figure 28: TCD-SCSS-U.20121208.004-fig28

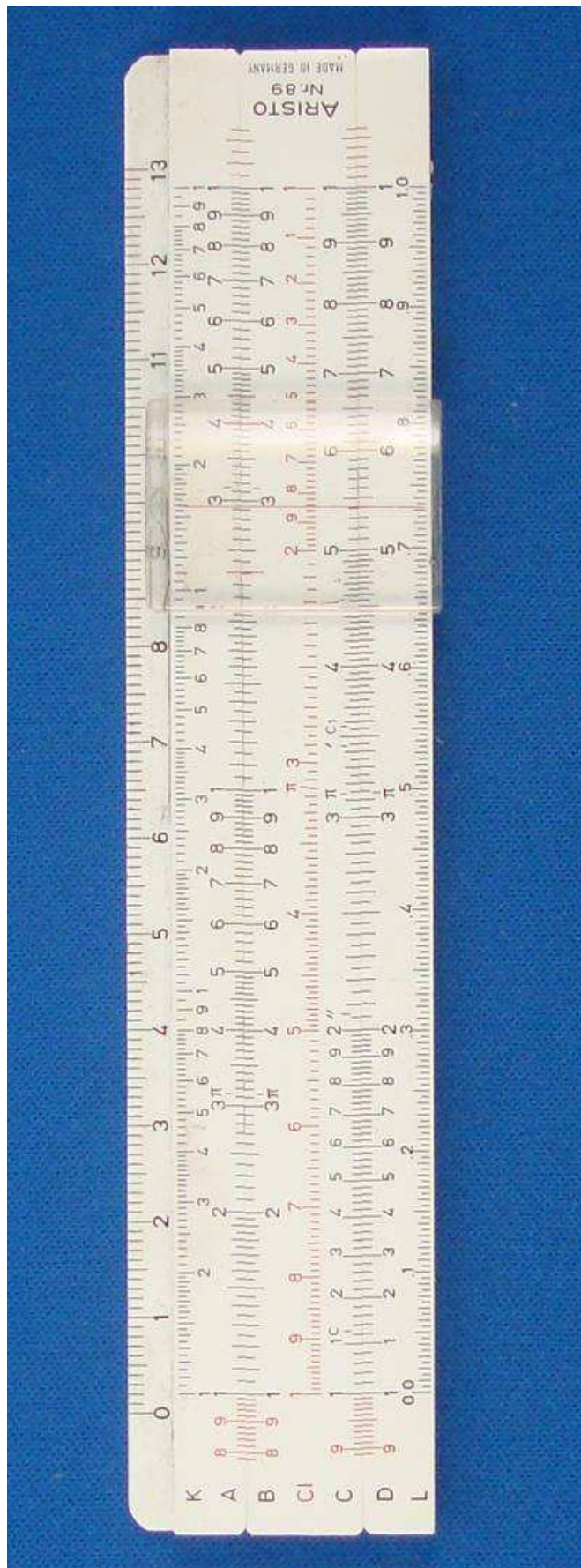


Figure 29: TCD-SCSS-U.20121208.004-fig29



Figure 30: TCD-SCSS-U.20121208.004-fig30

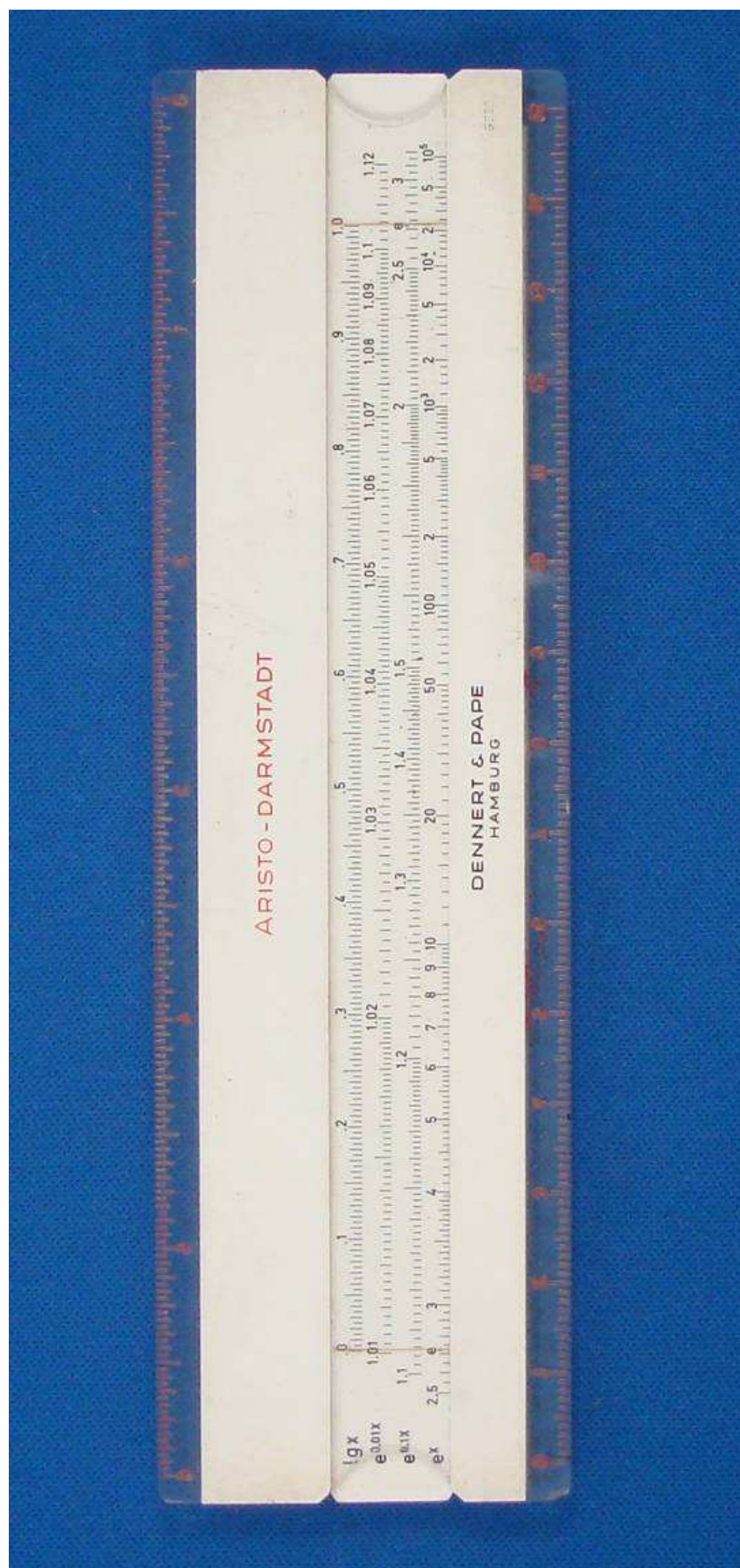


Figure 31: TCD-SCSS-U.20121208.004-fig31

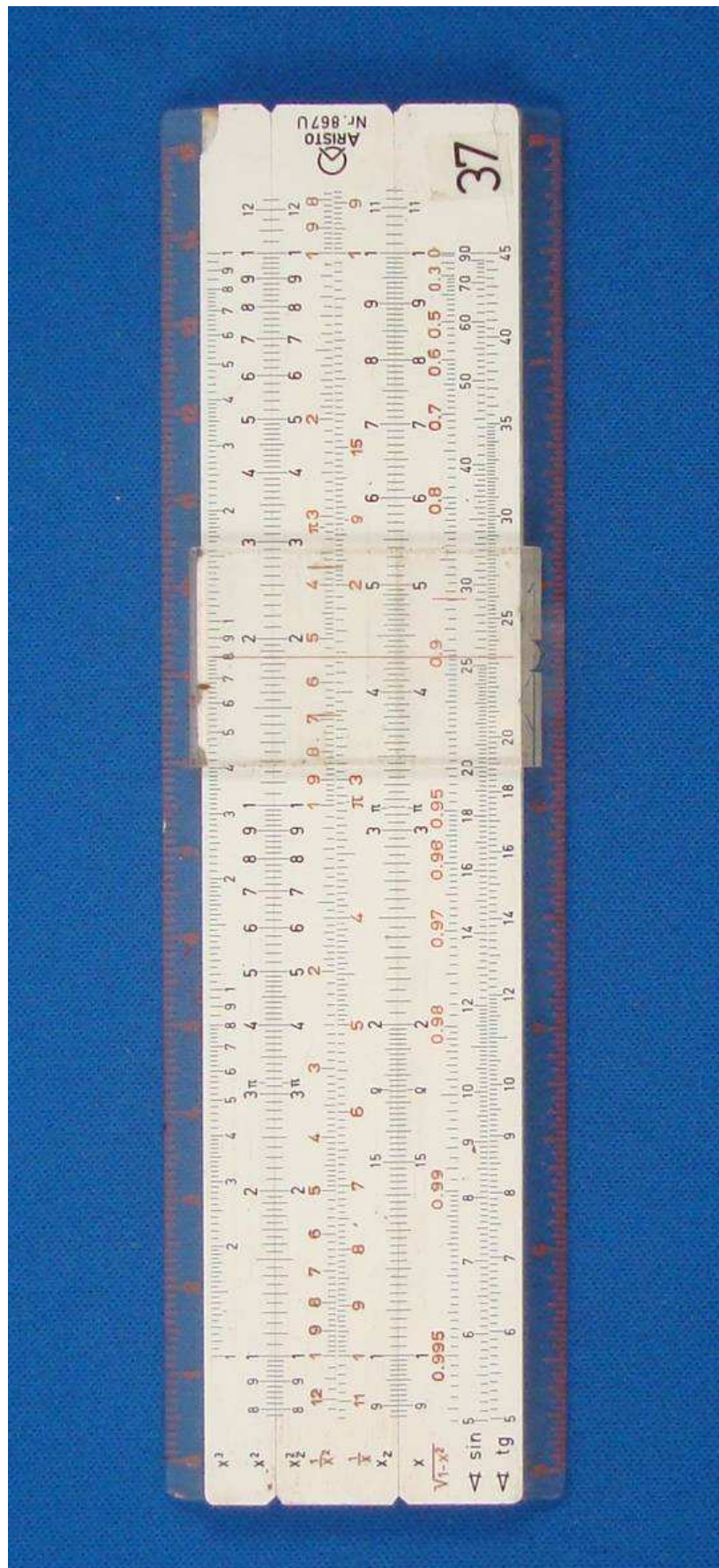


Figure 32: TCD-SCSS-U.20121208.004-fig32