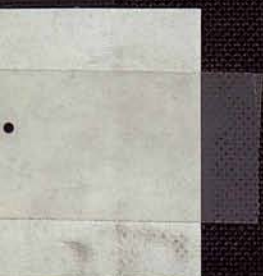


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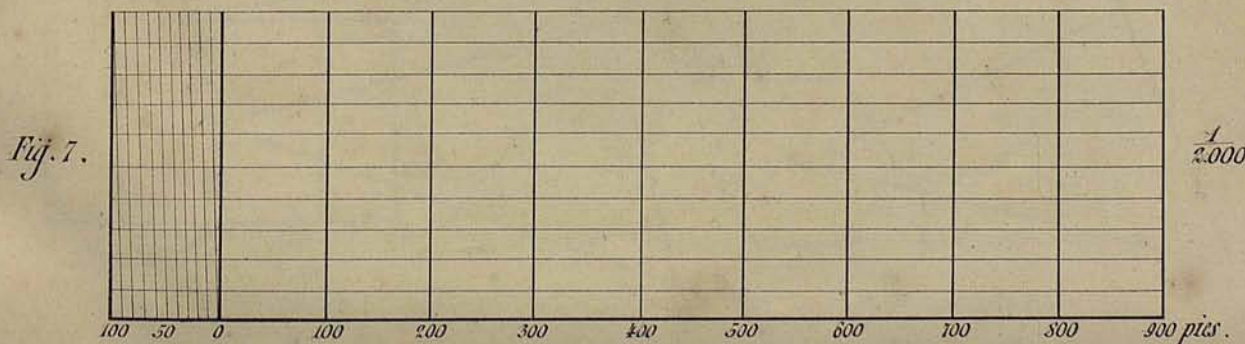
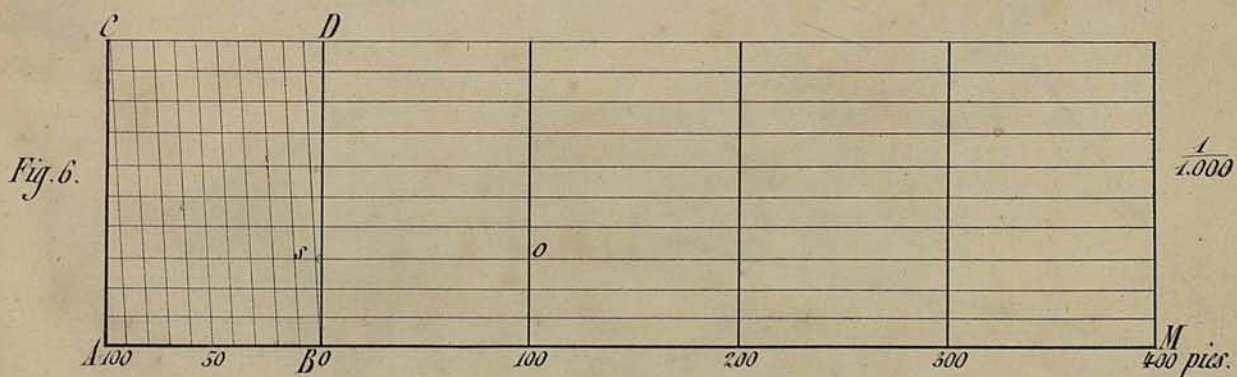
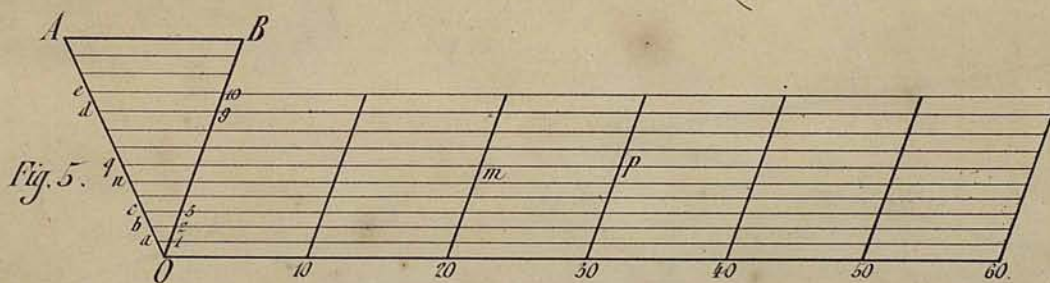
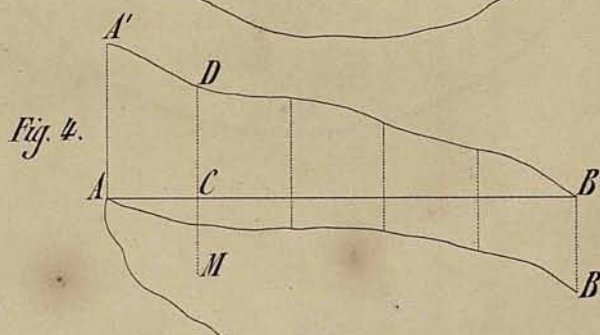
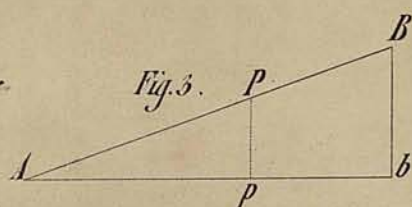
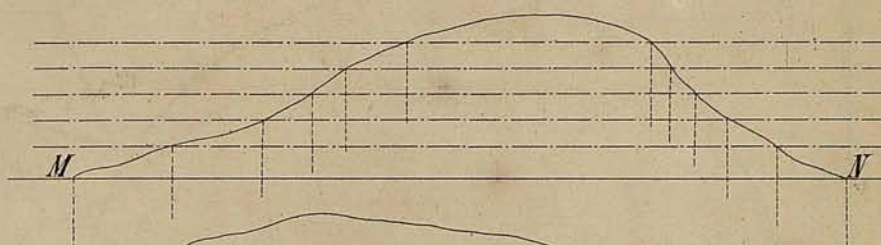
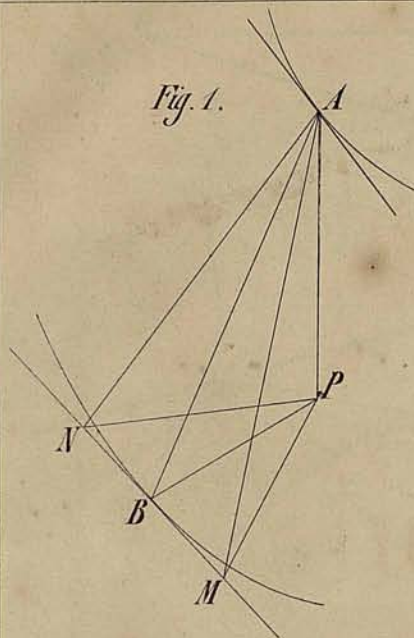


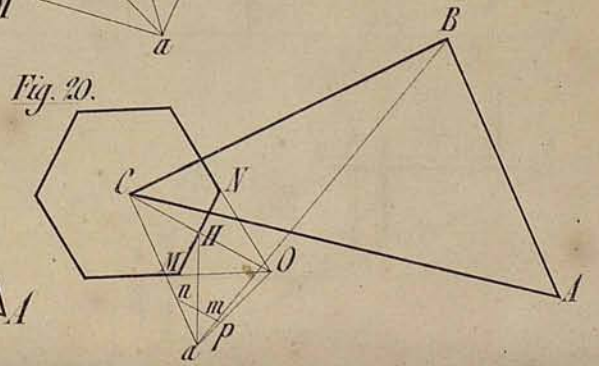
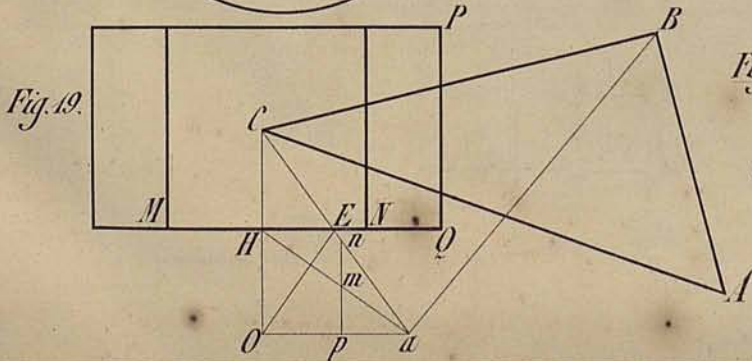
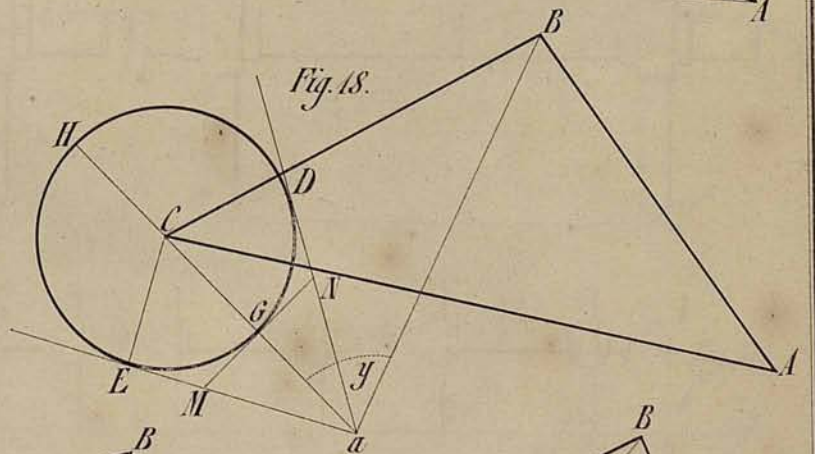
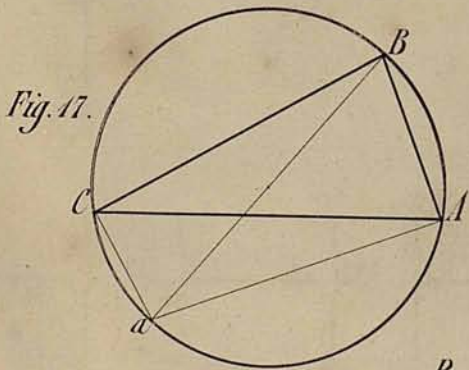
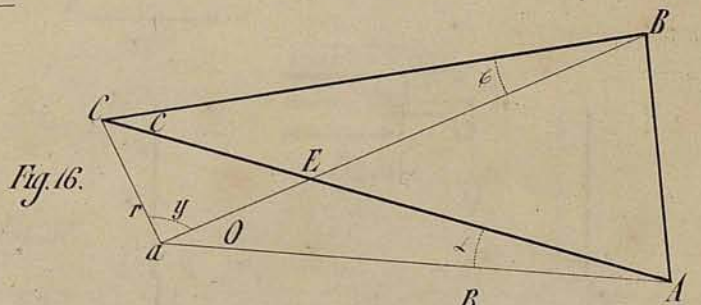
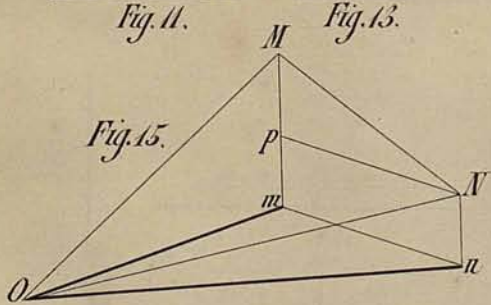
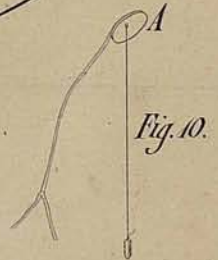
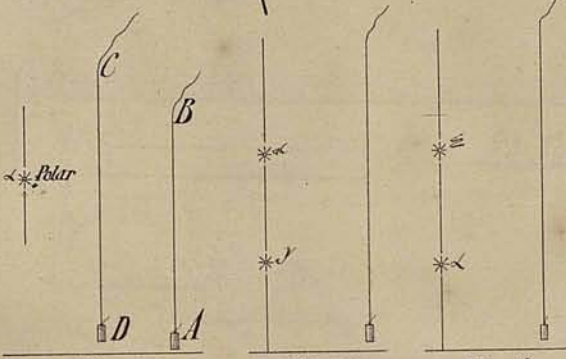
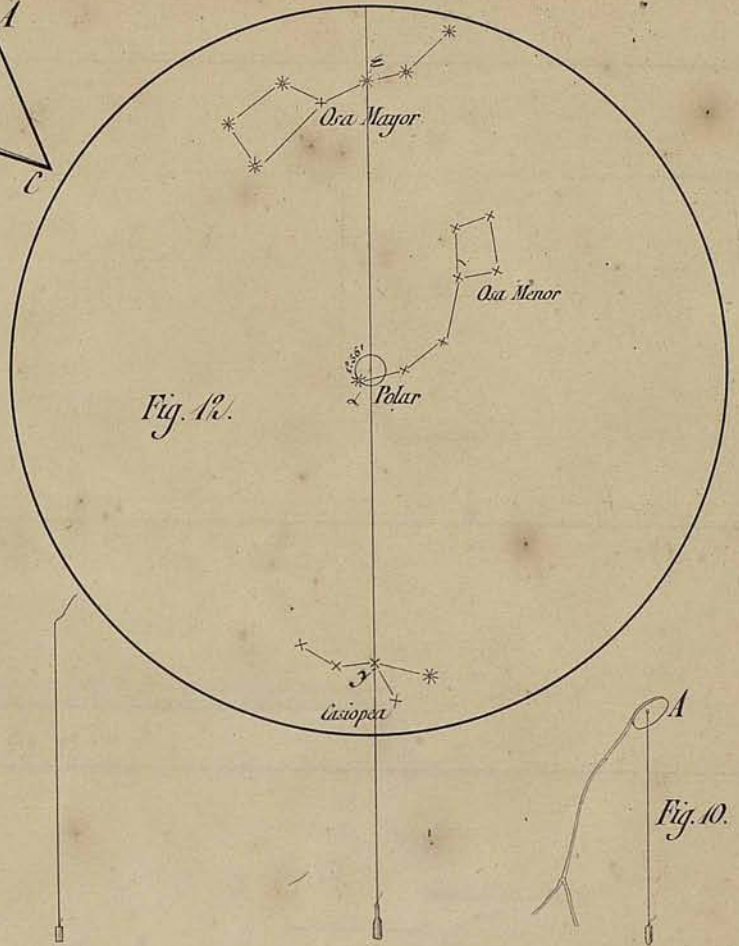
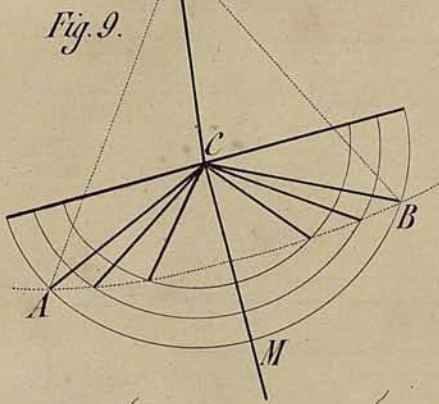
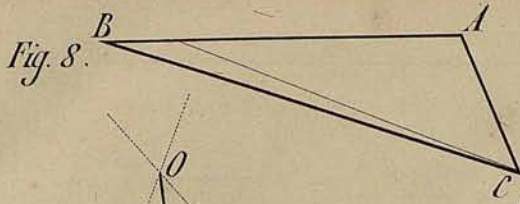


F.A.S.
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PROCEDENTE DE LA BIBLIOTECA
DEL CORONEL DE ARTILLERIA D. AUGUS-
TO PLASENCIA, CONDE DE SANTA BARBA-
RA, POR DONACION DEL COMANDANTE DE
ESTE ARMA D. FRANCISCO CARMONA Y LE-
REZ DE VERA.







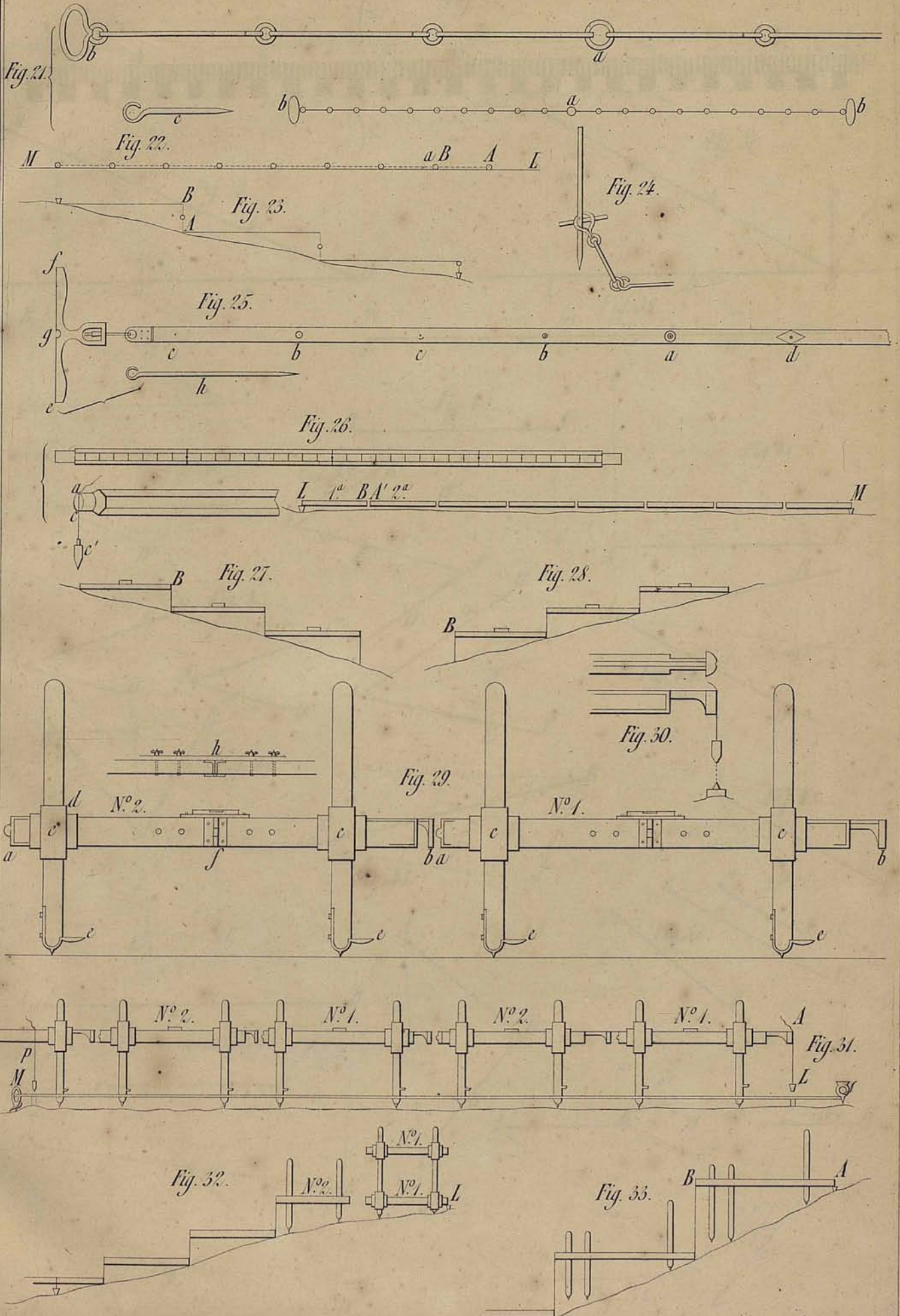


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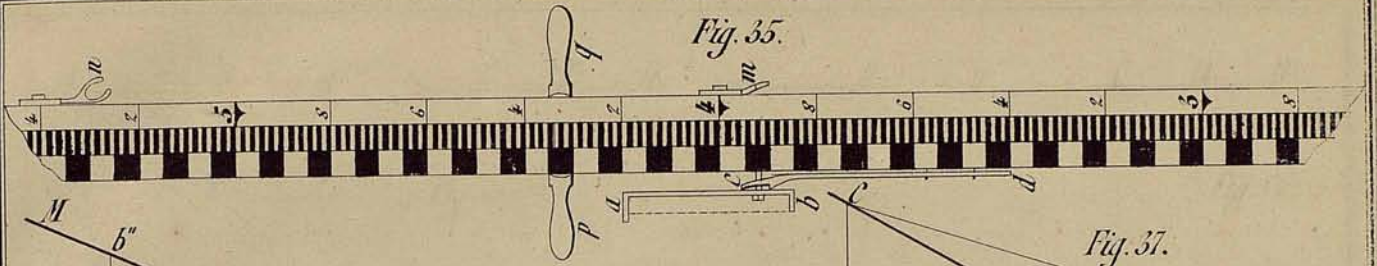


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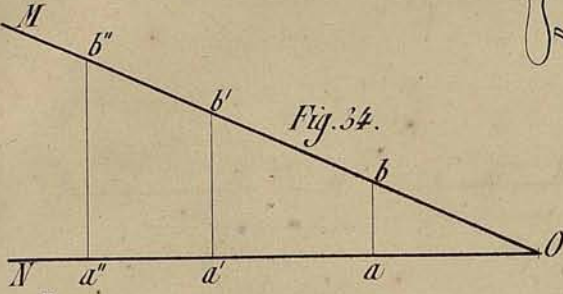


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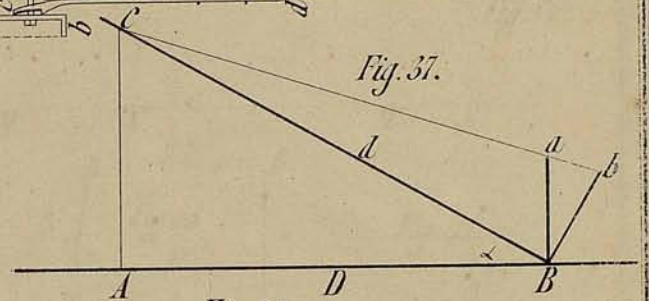


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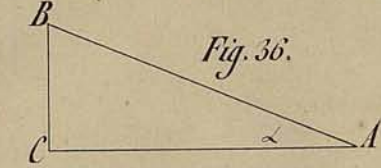


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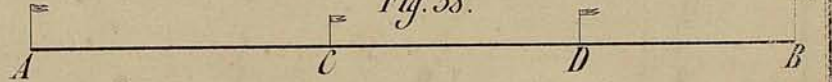


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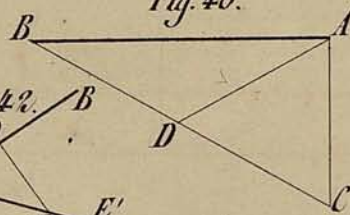


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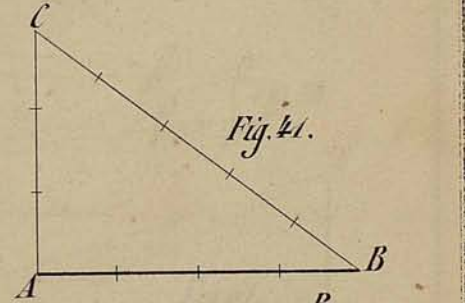


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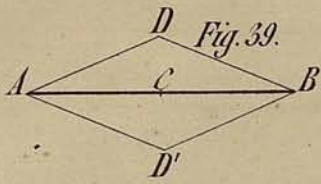


Fig. 42.



Fig. 43.

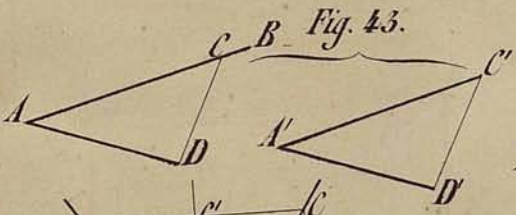


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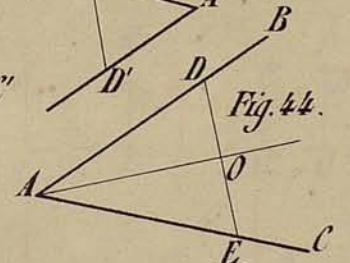


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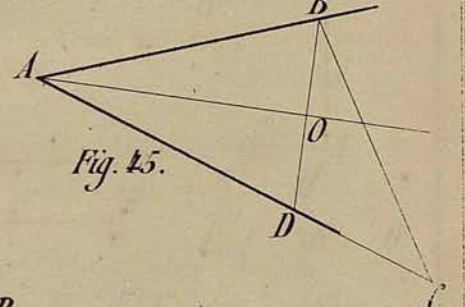


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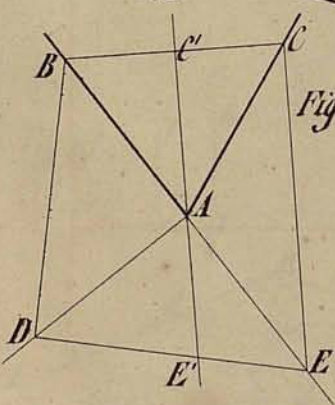


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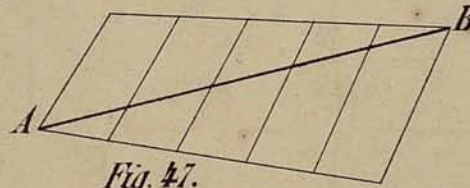


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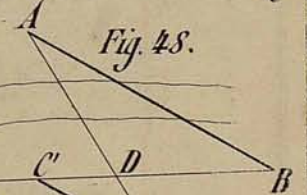


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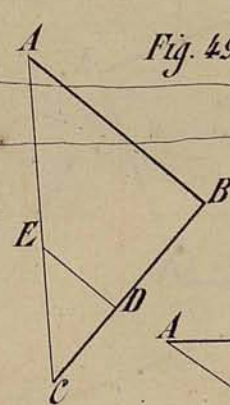


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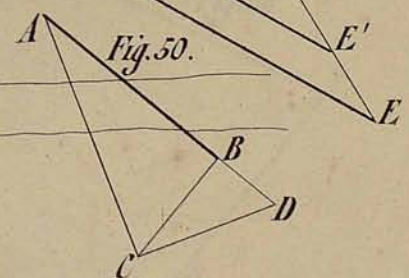


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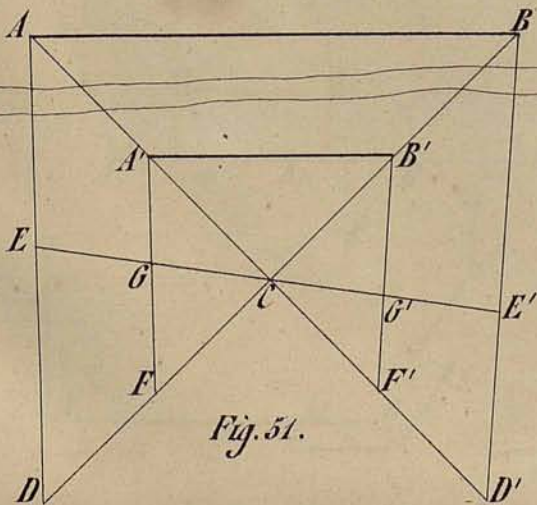
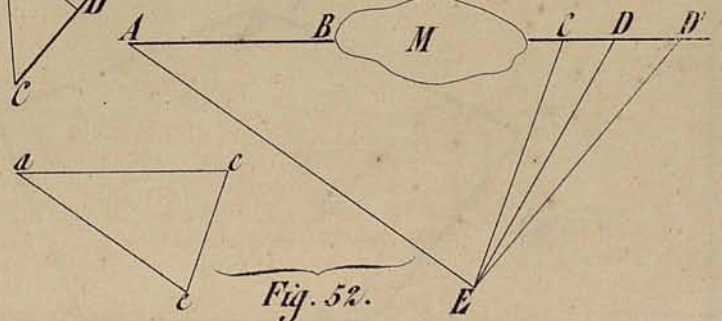
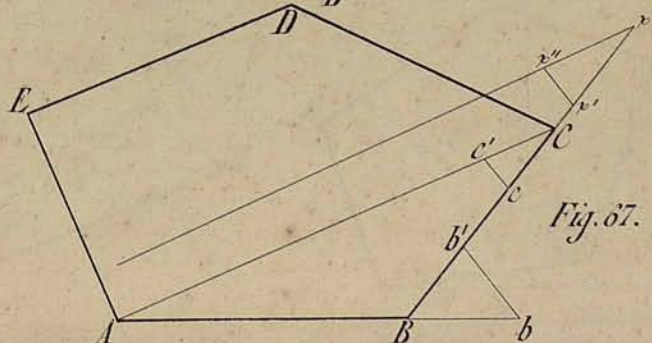
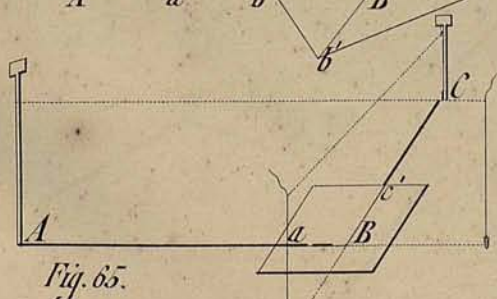
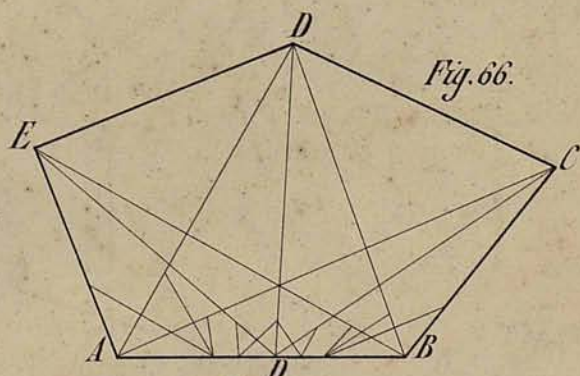
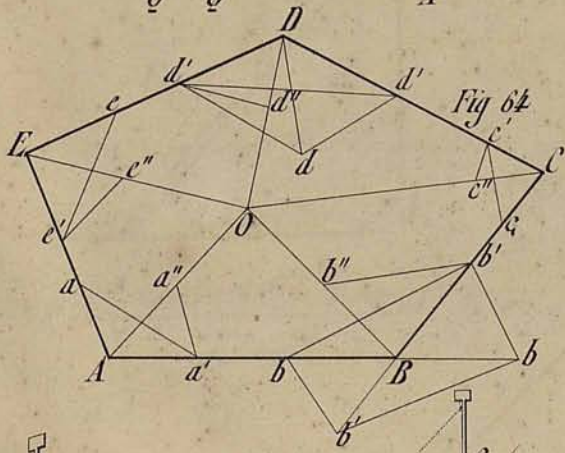
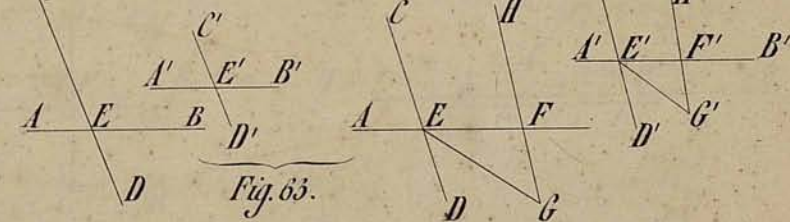
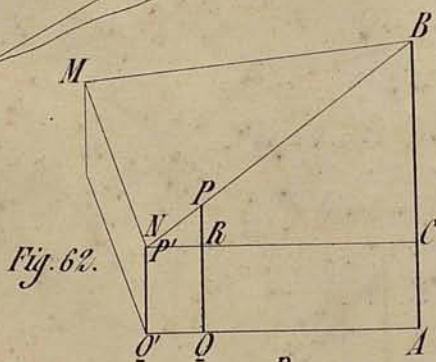
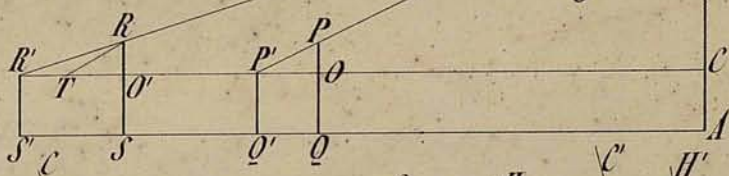
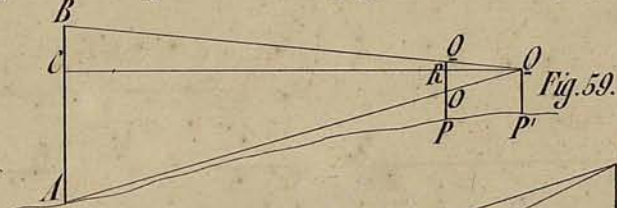
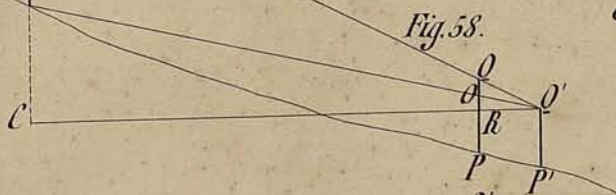
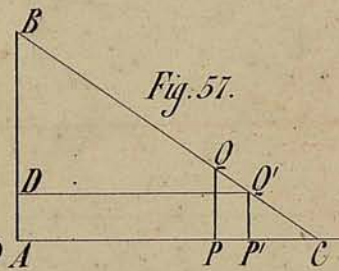
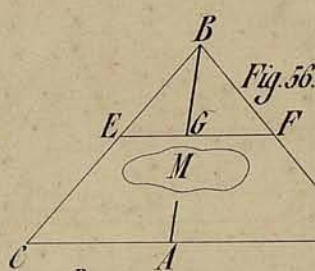
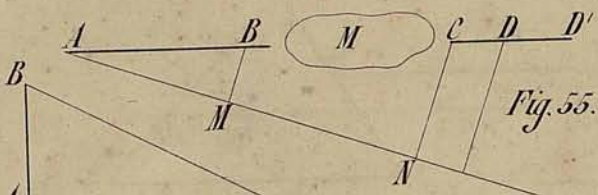
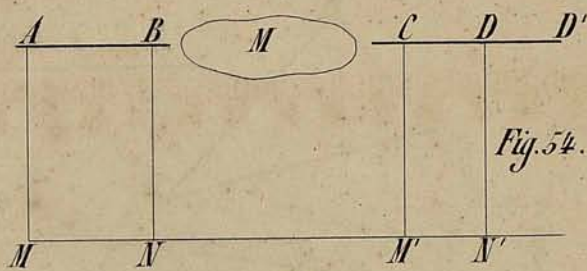
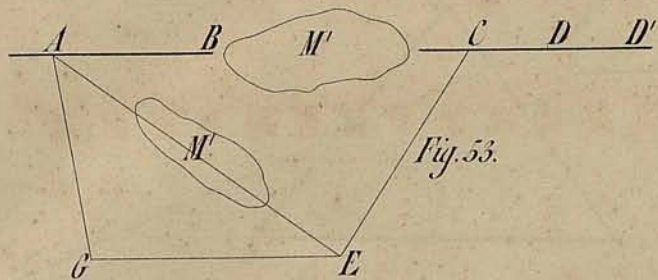
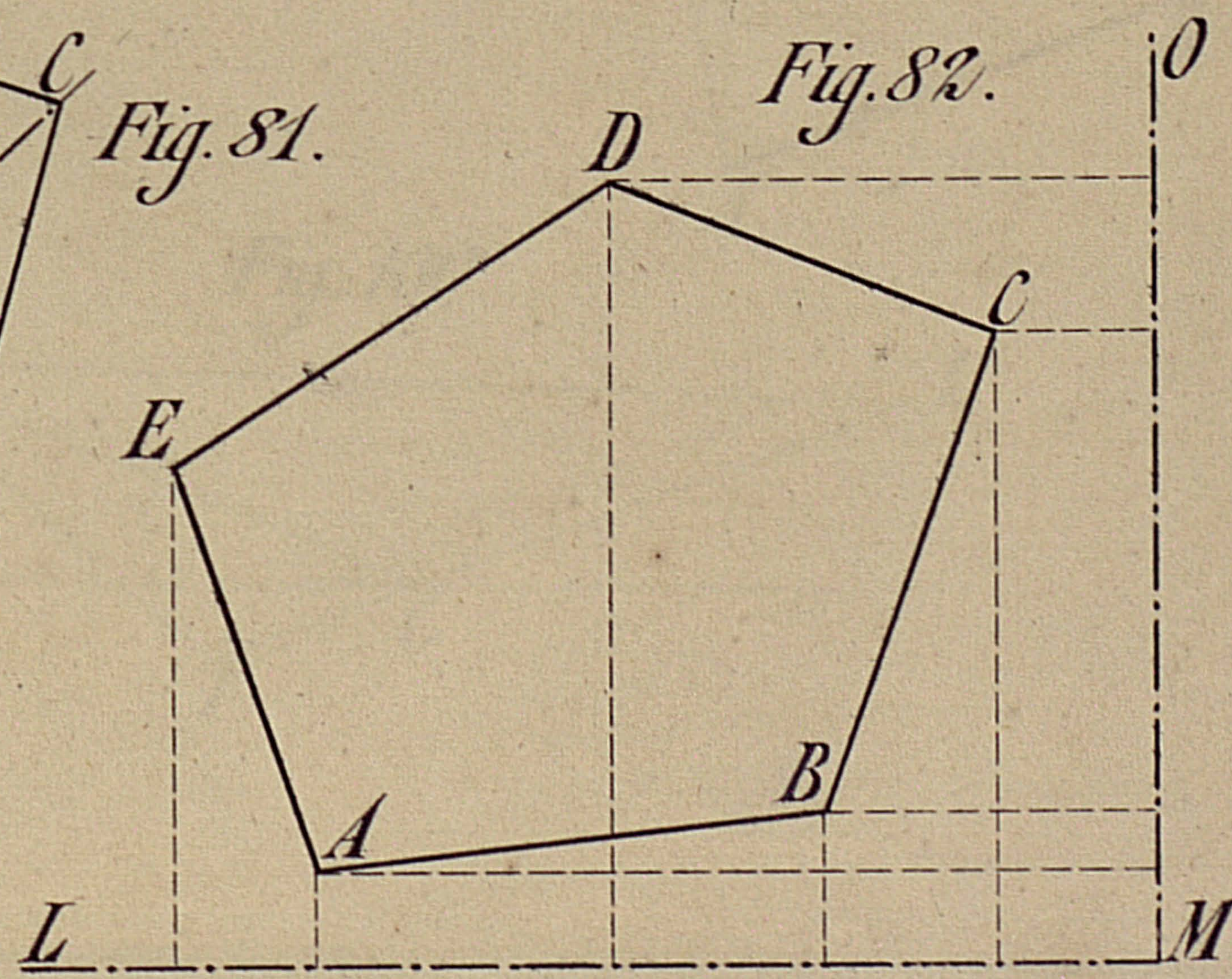
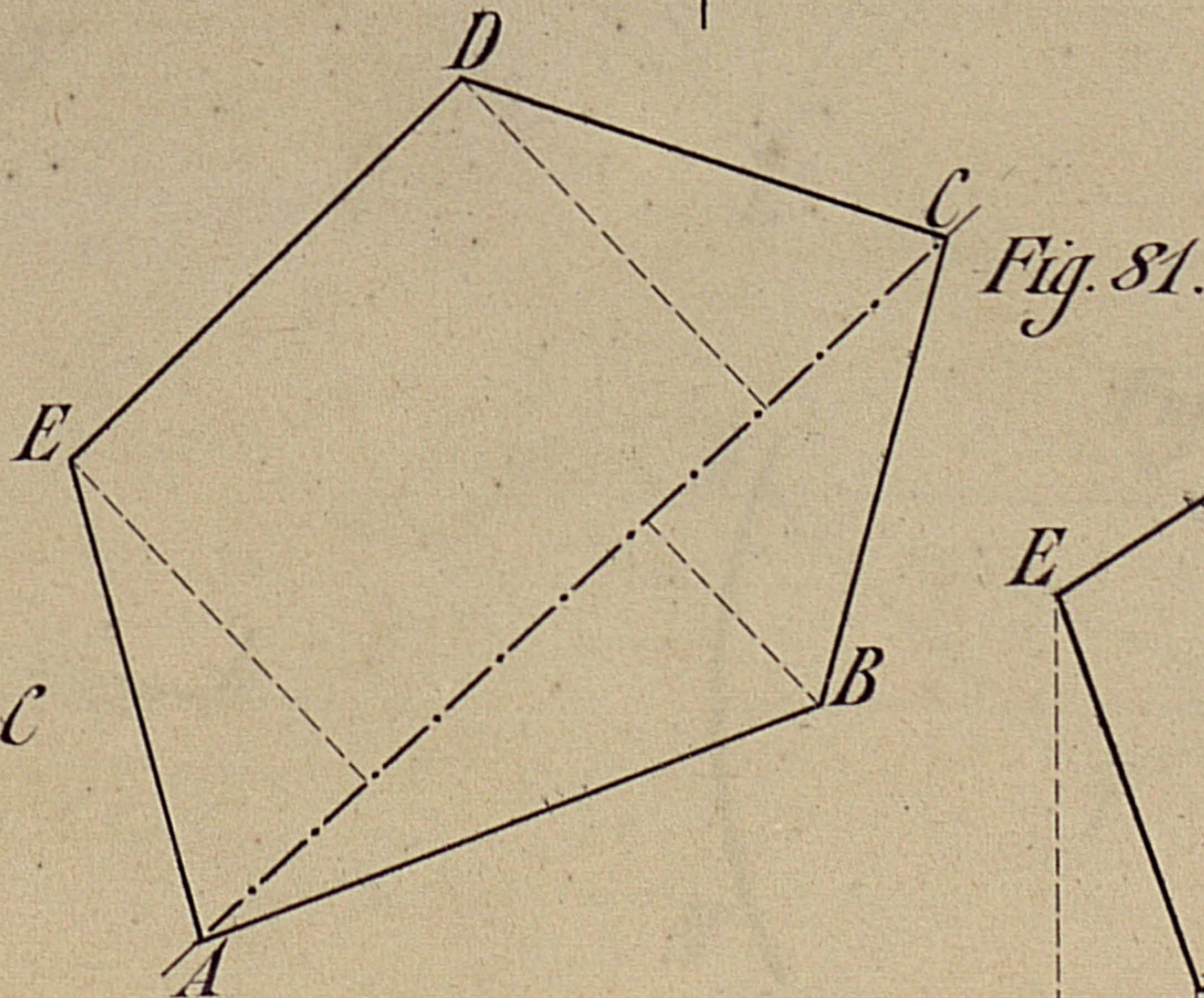
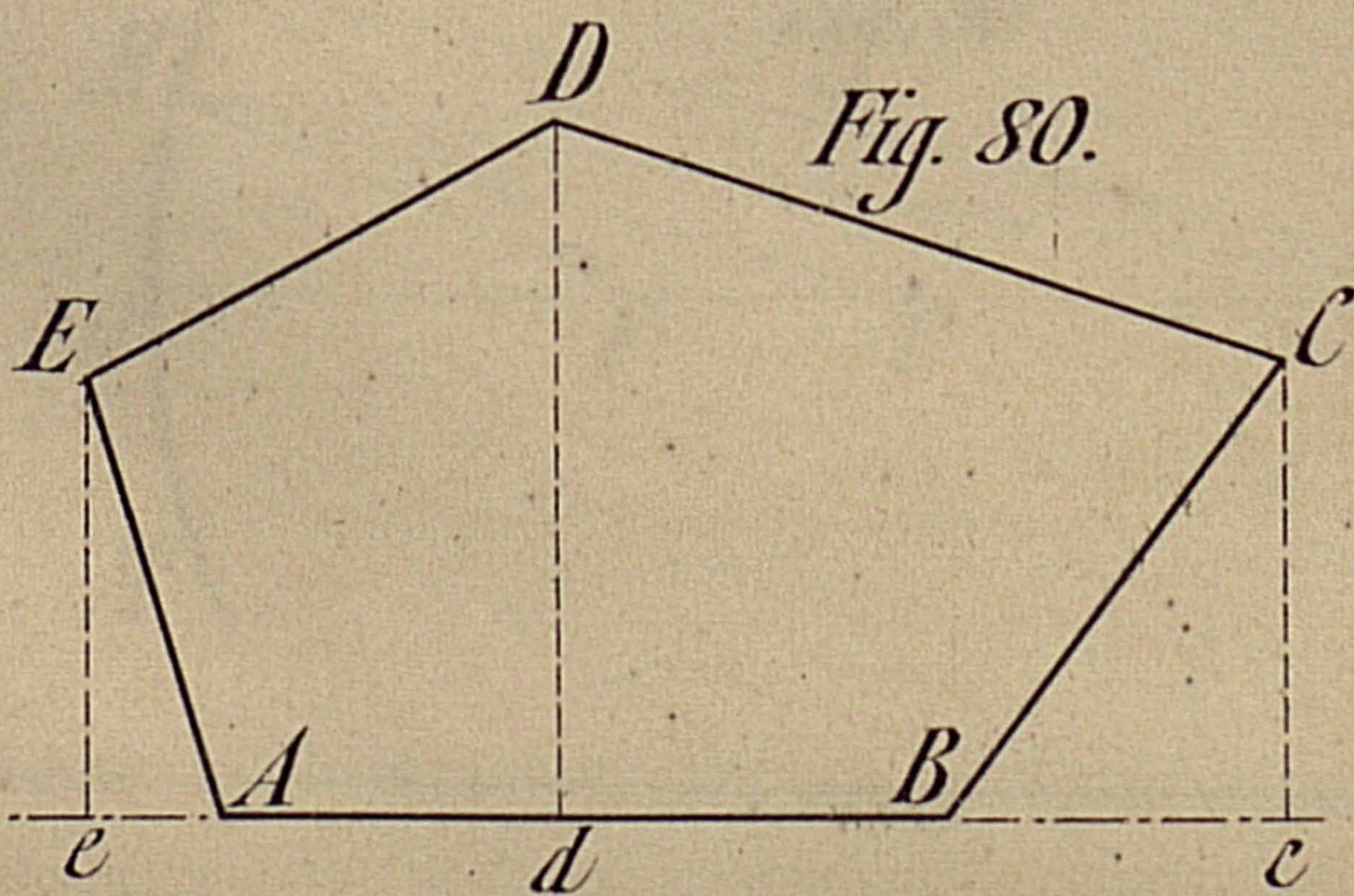
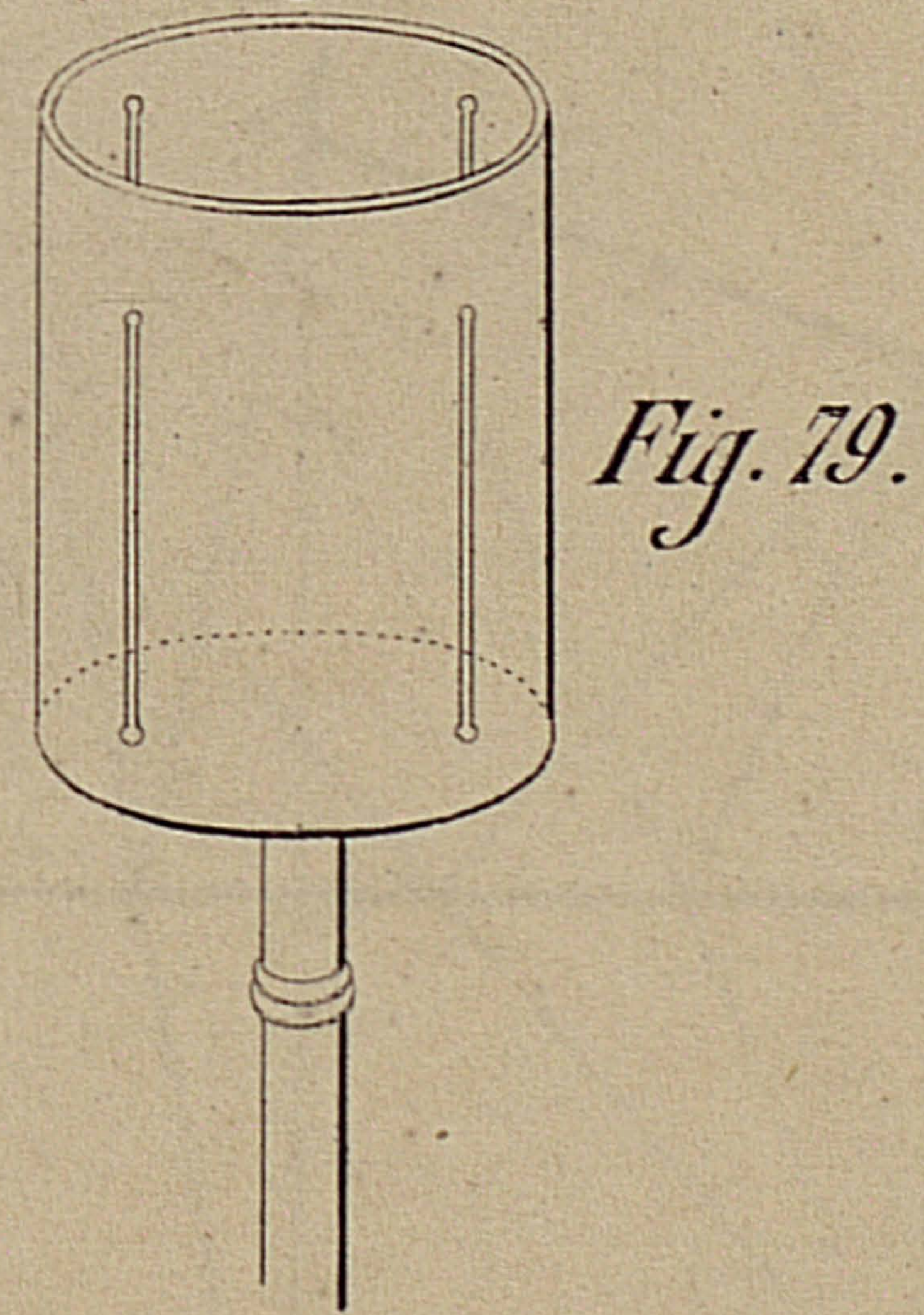
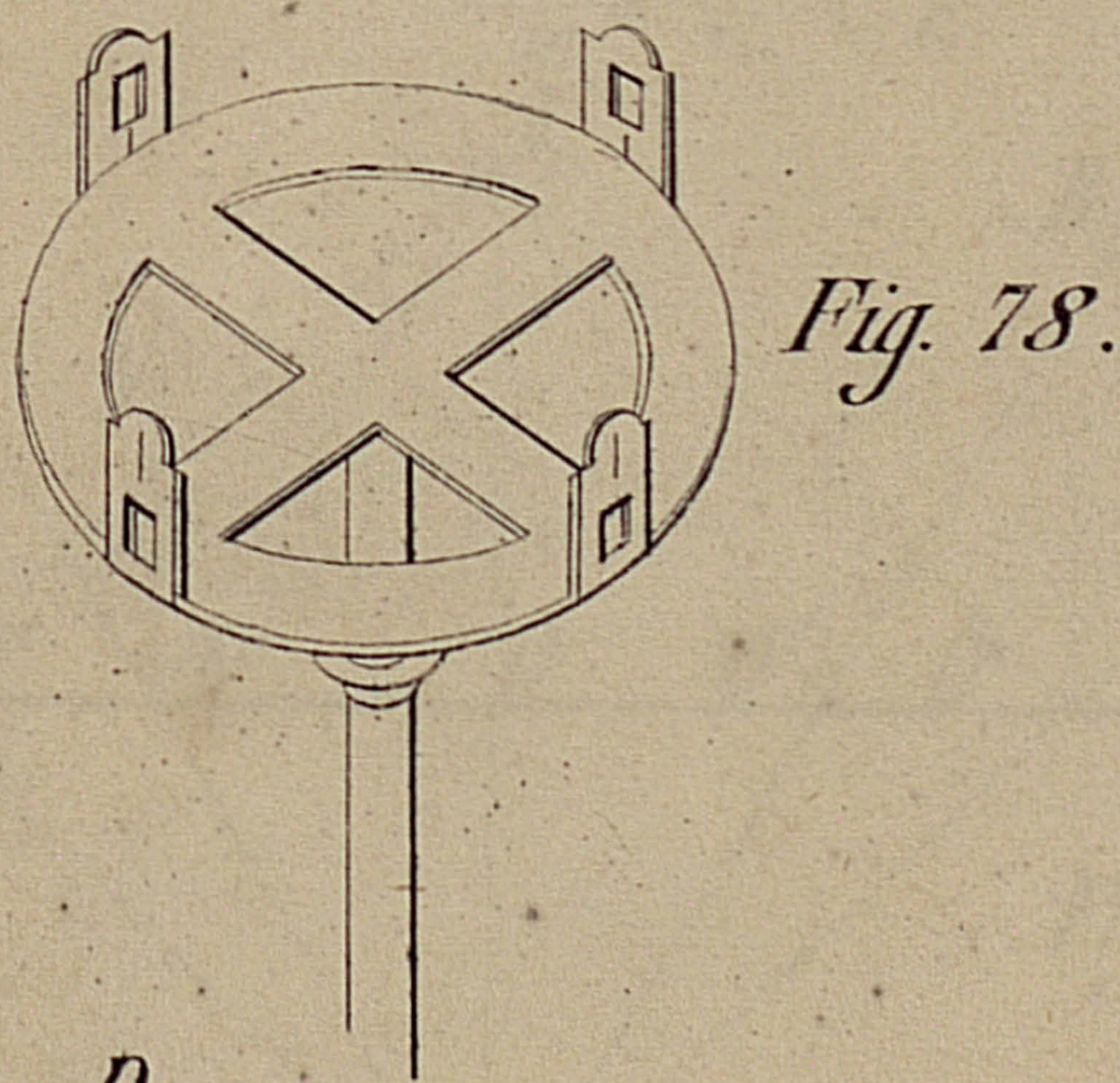
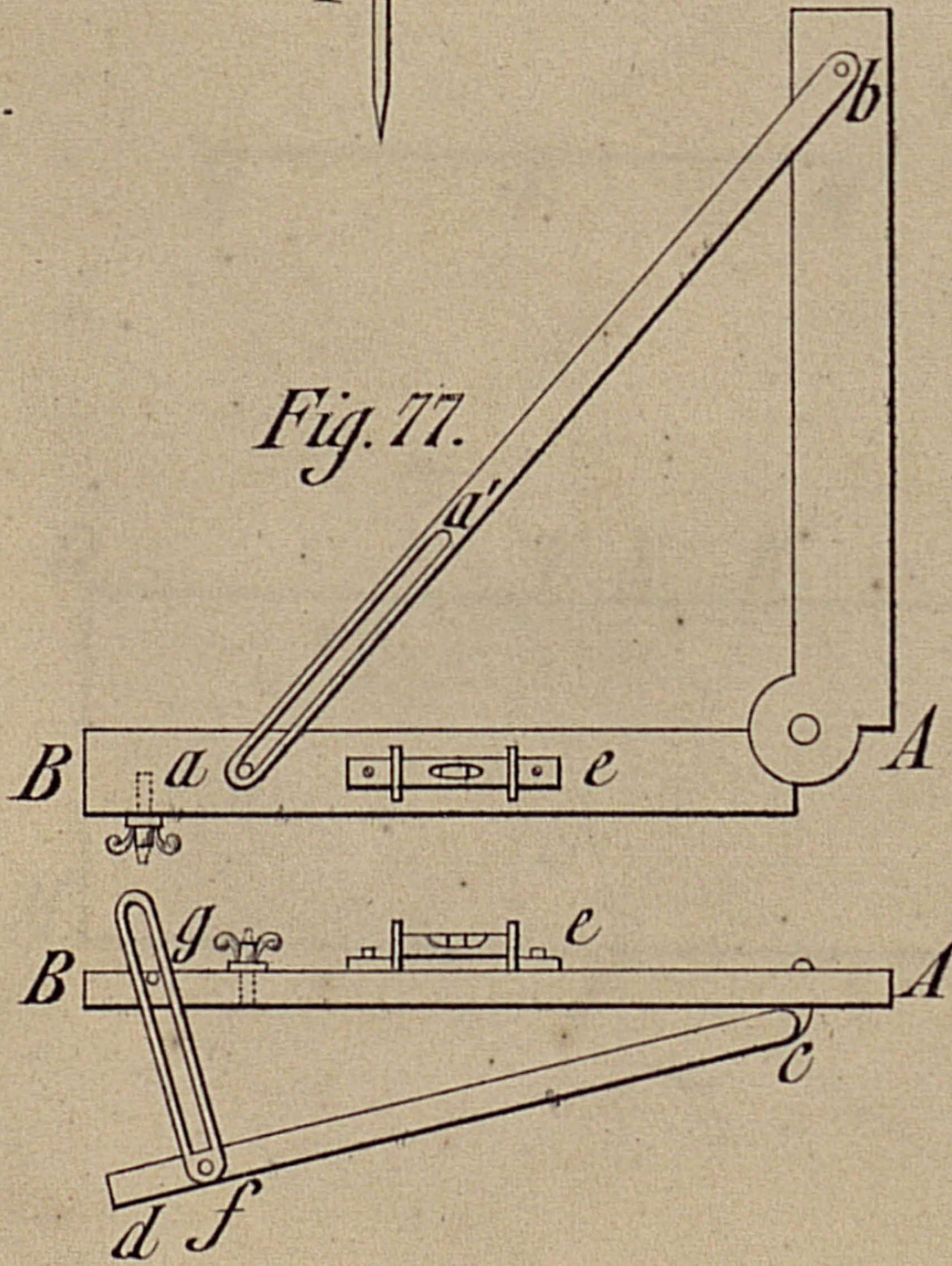
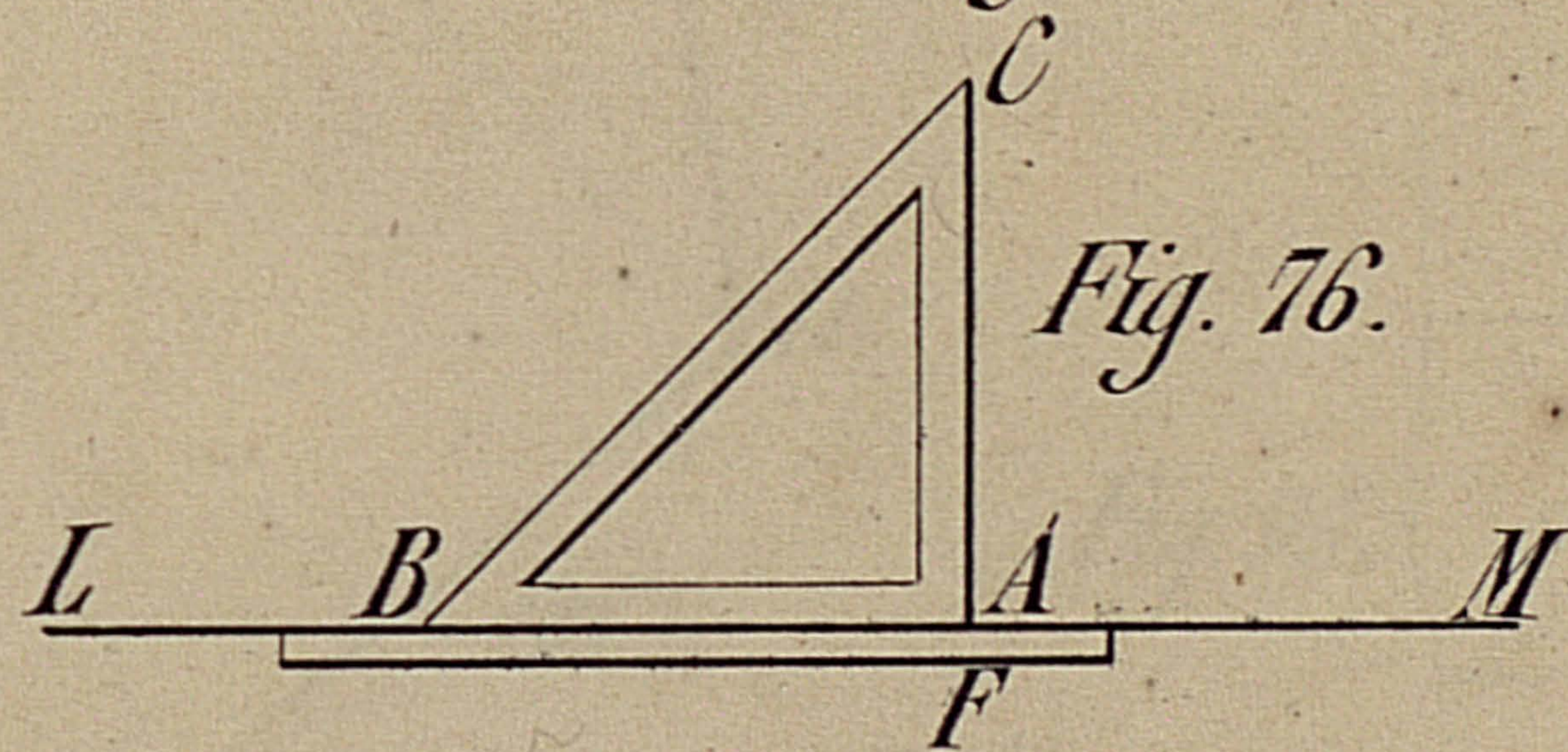
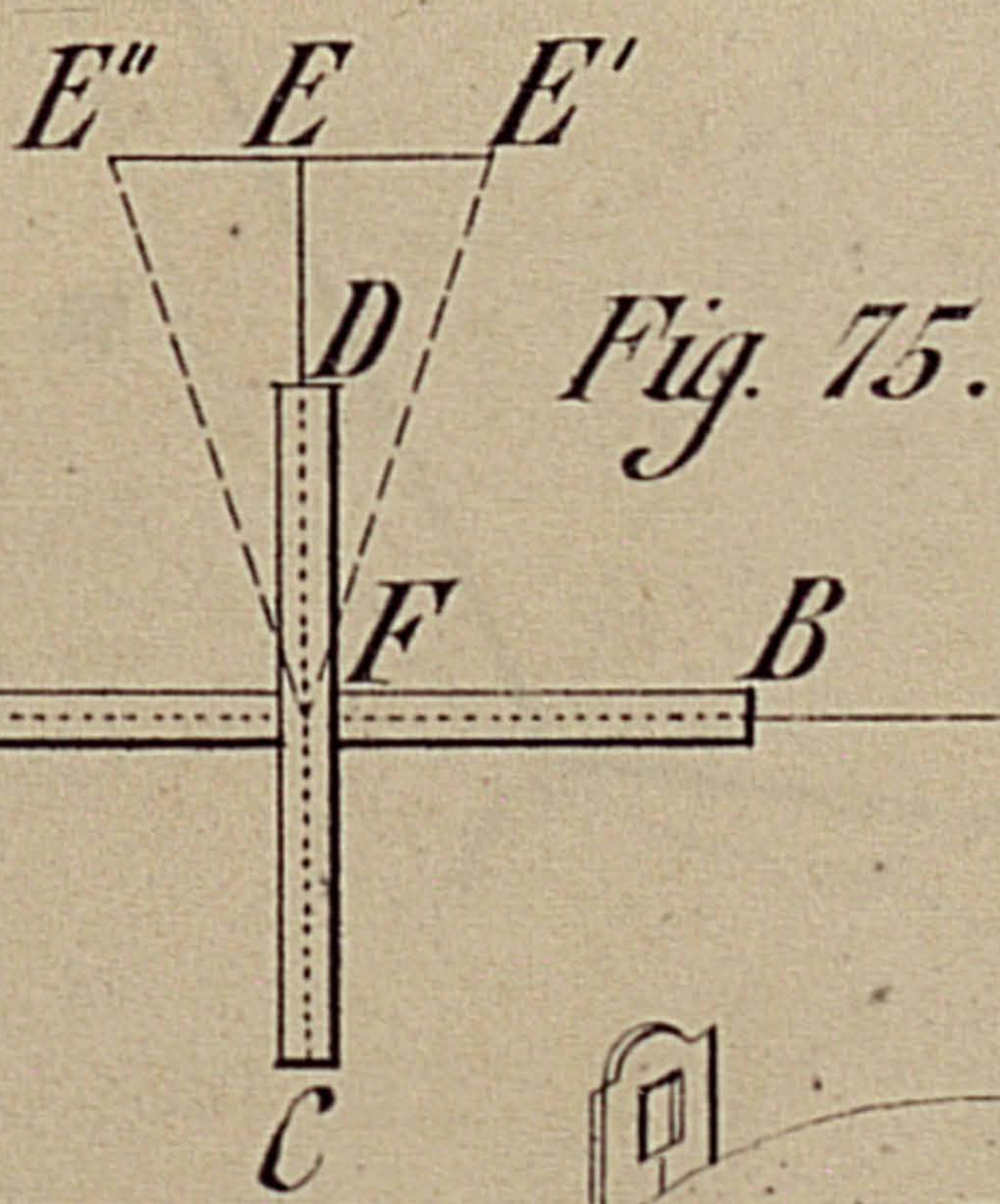
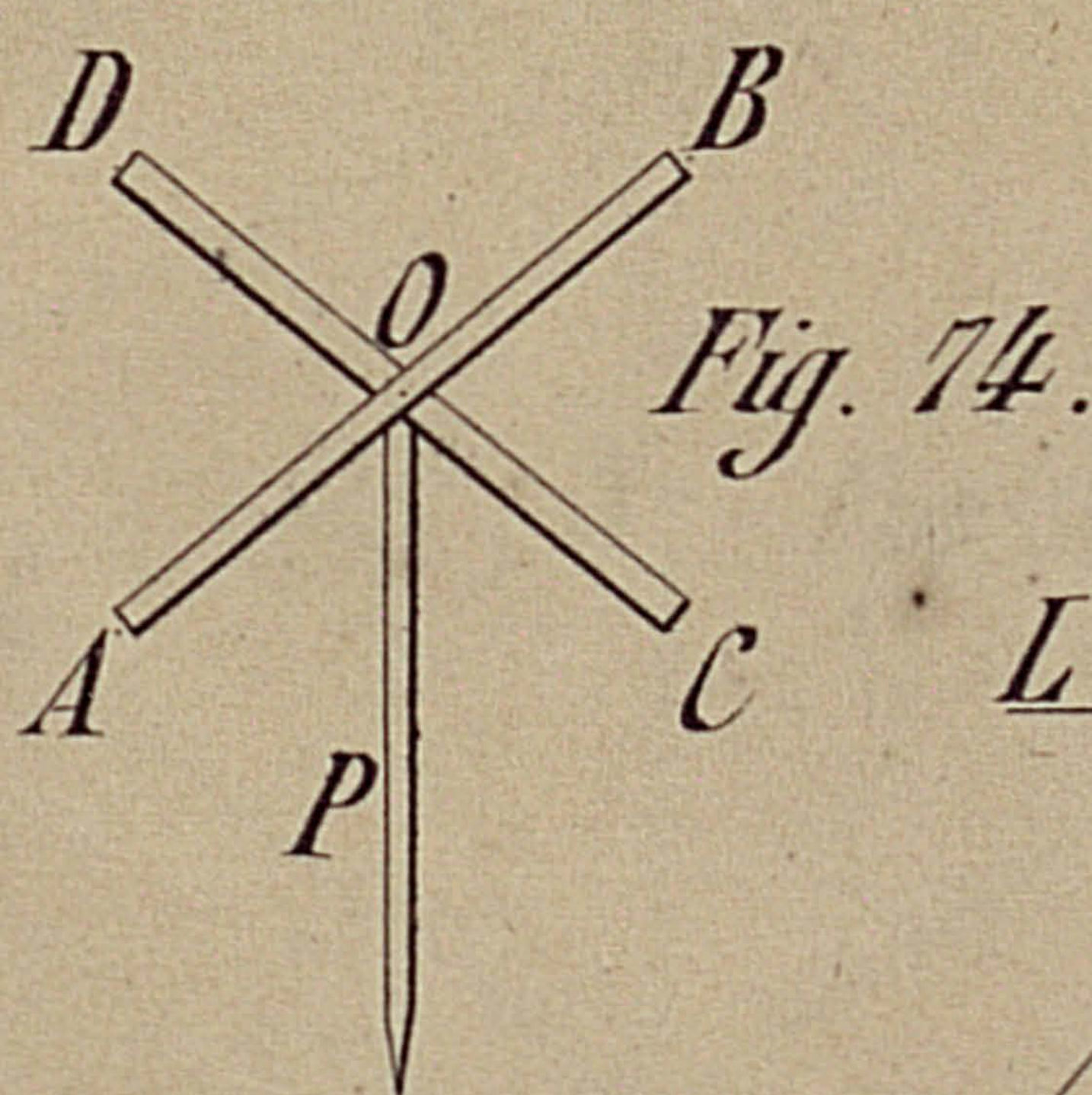
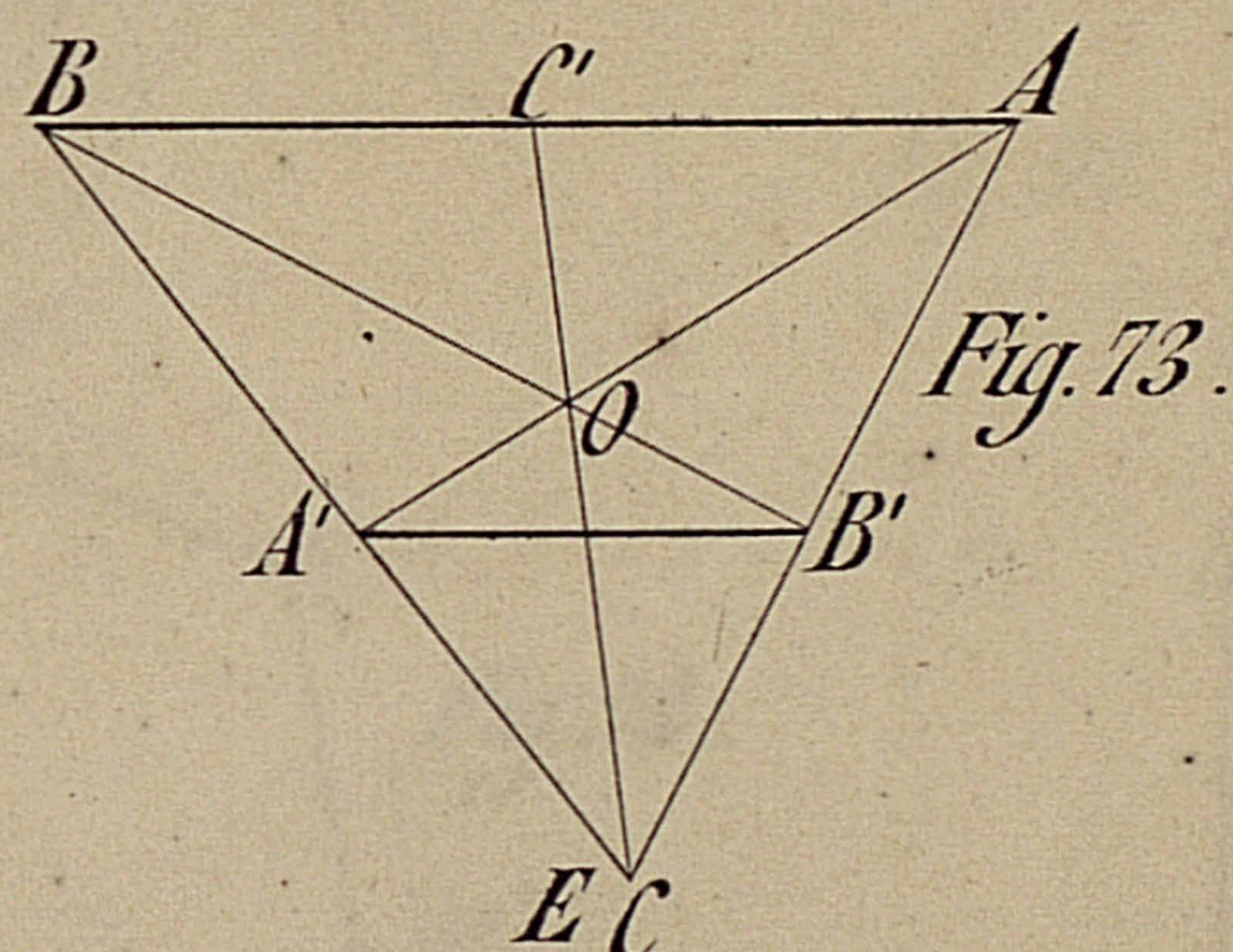
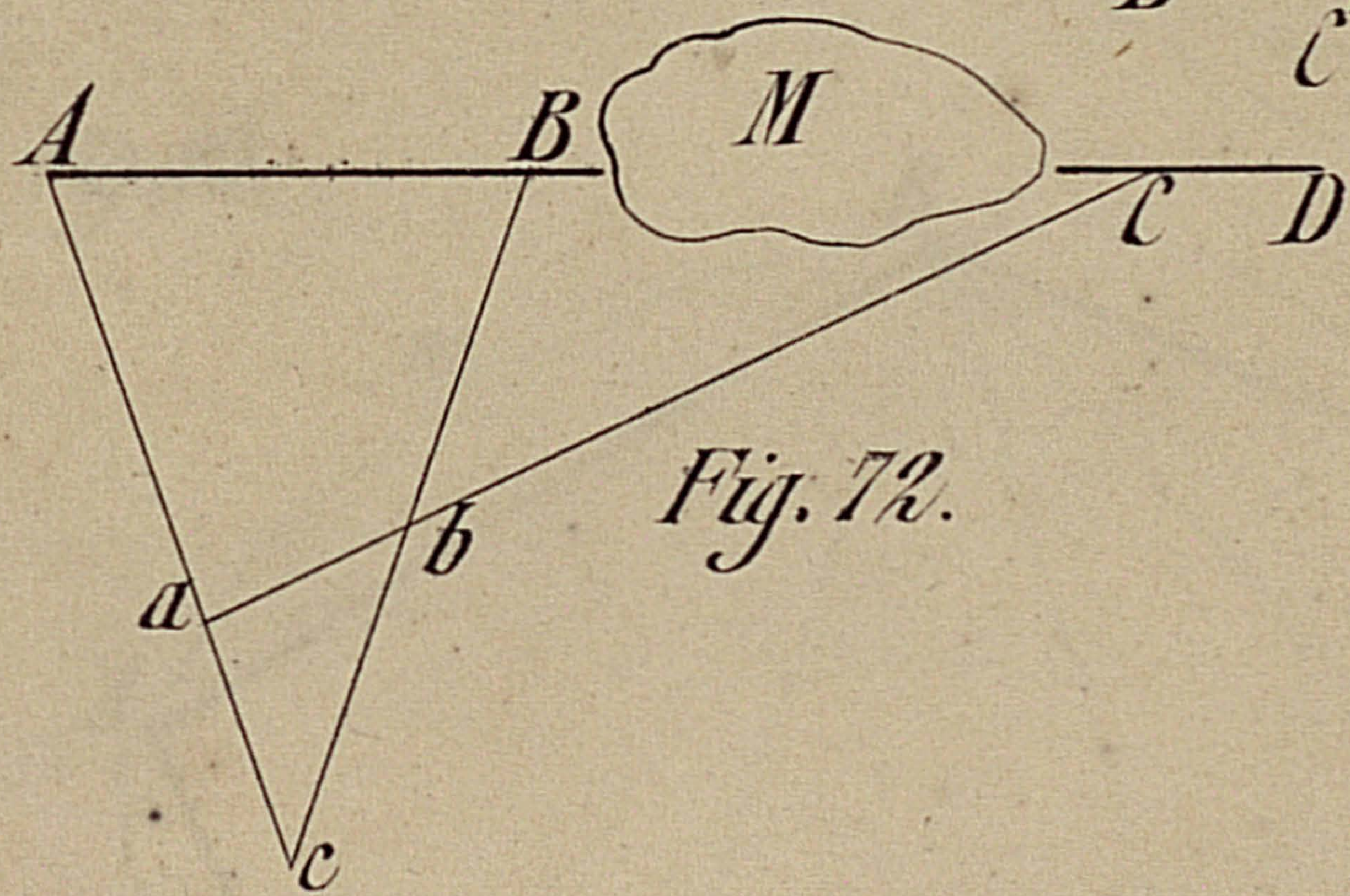
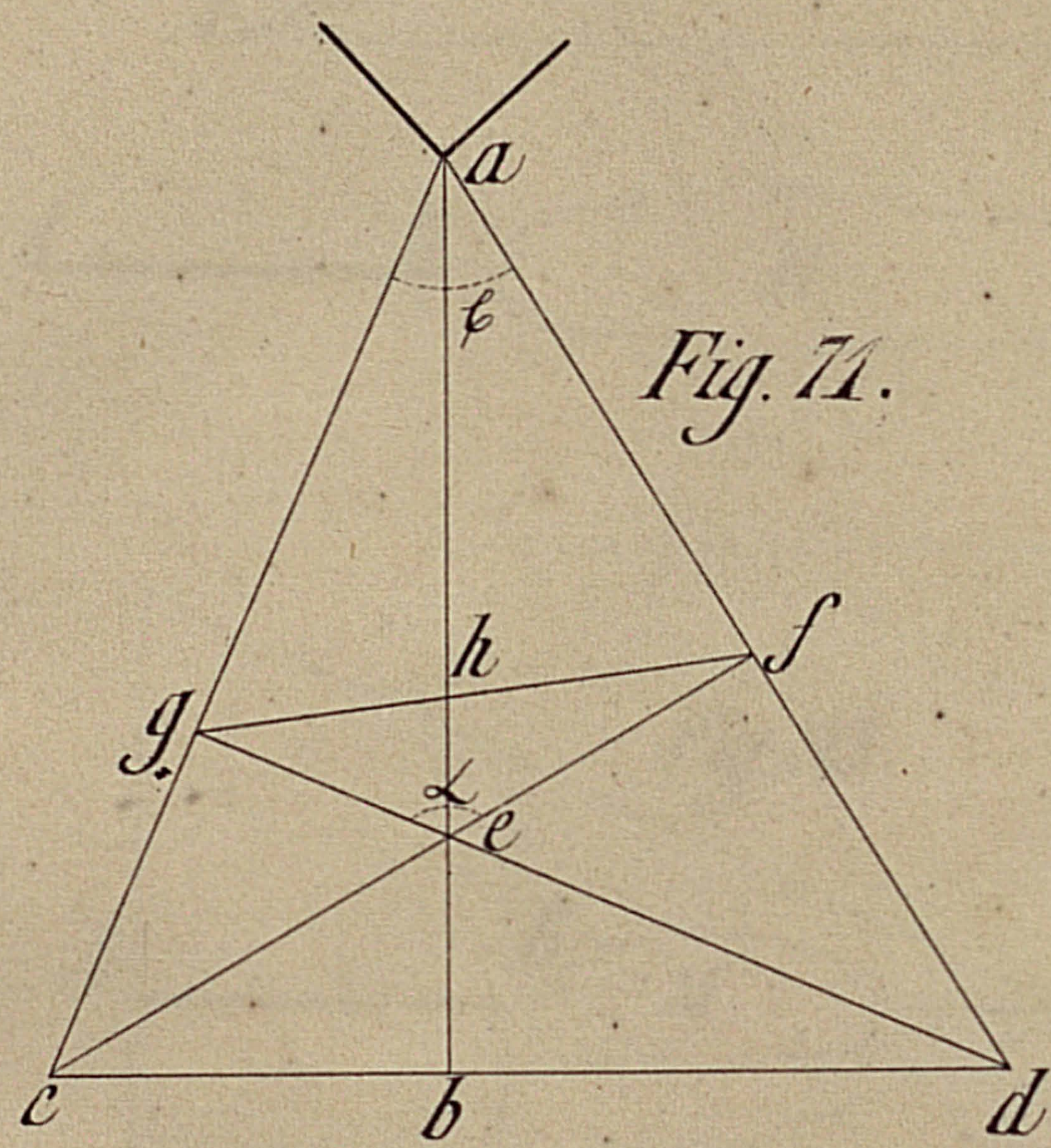
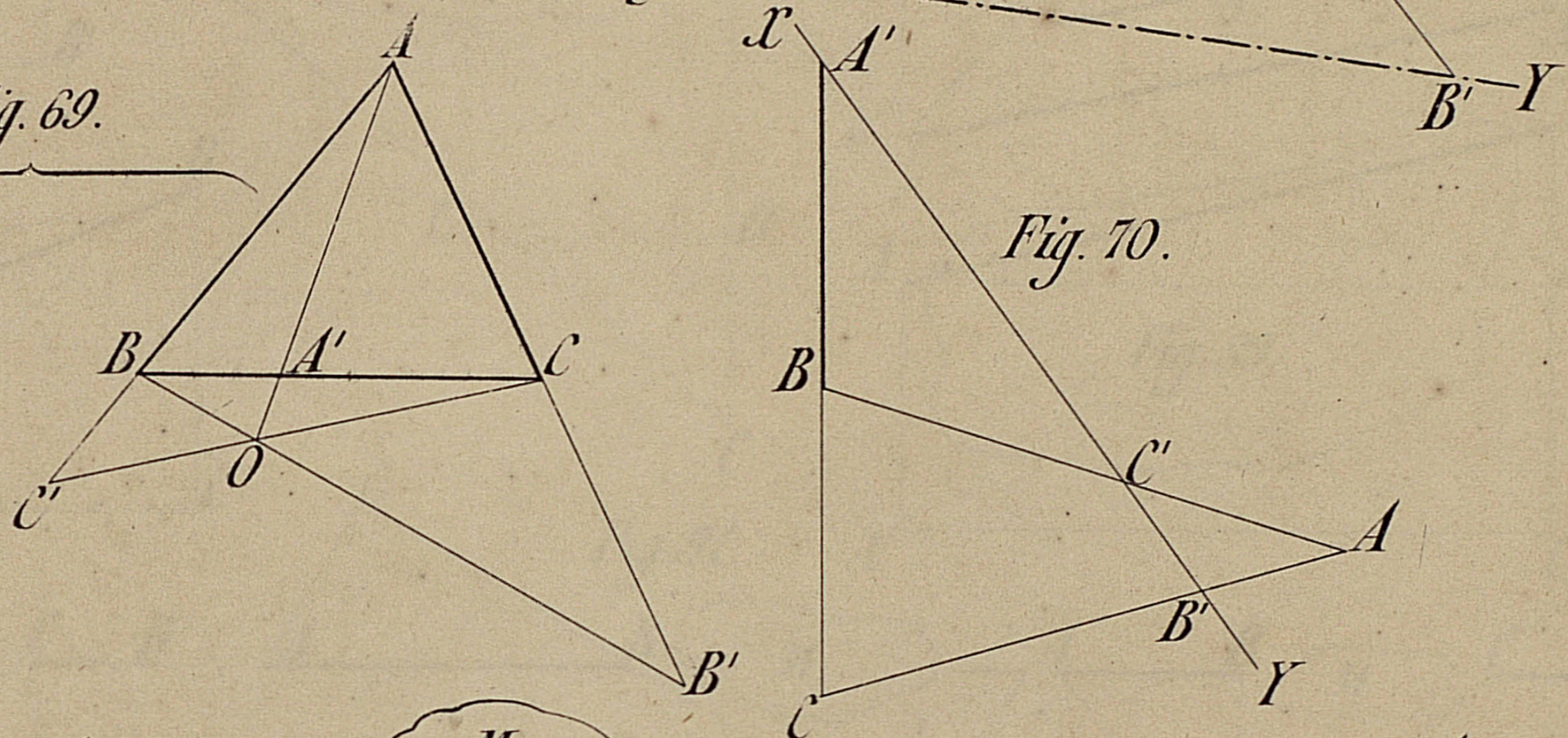
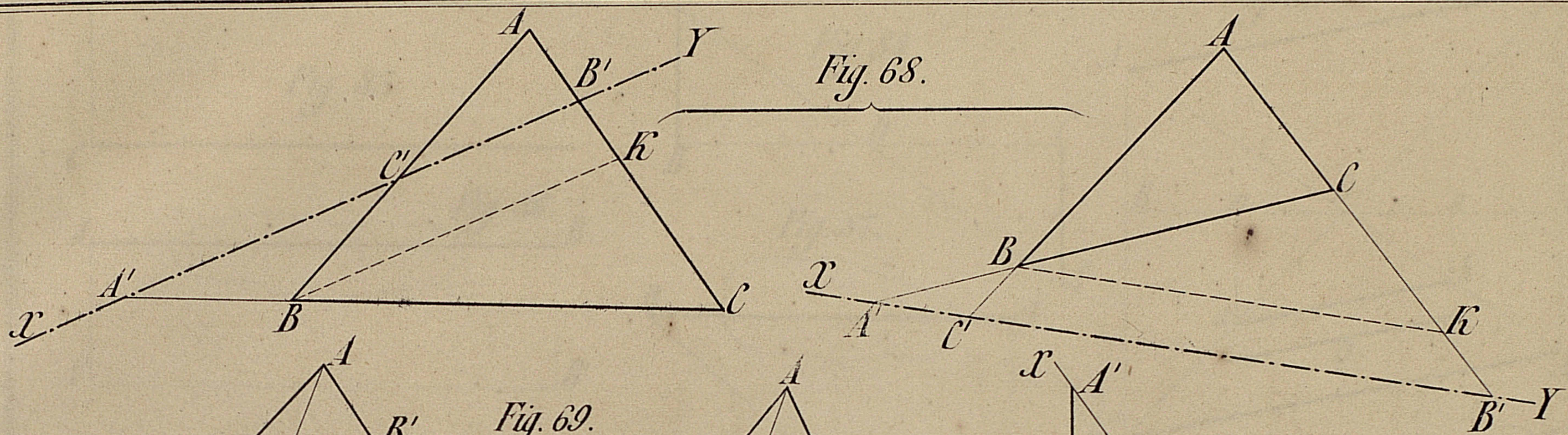
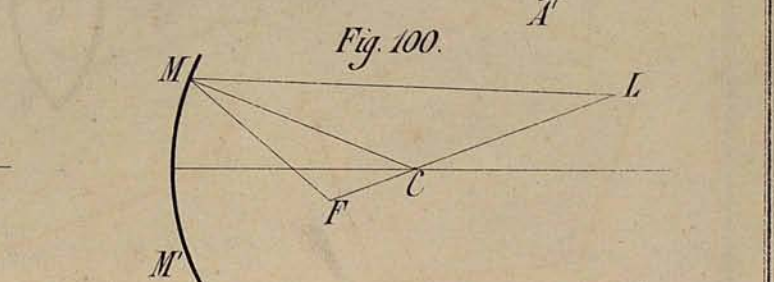
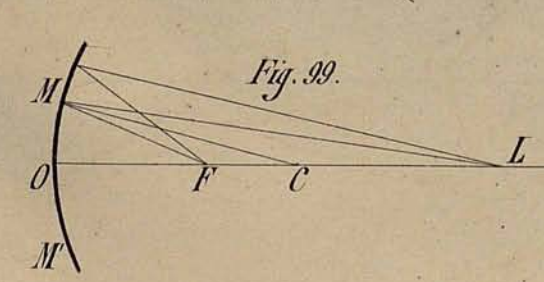
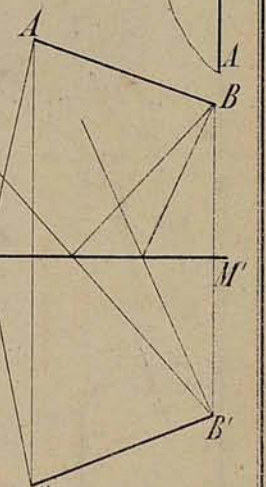
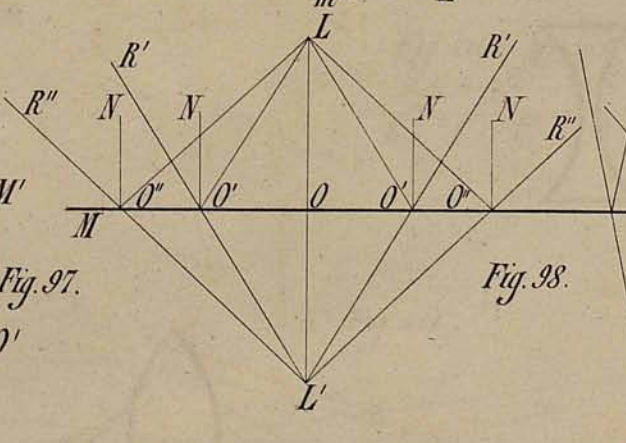
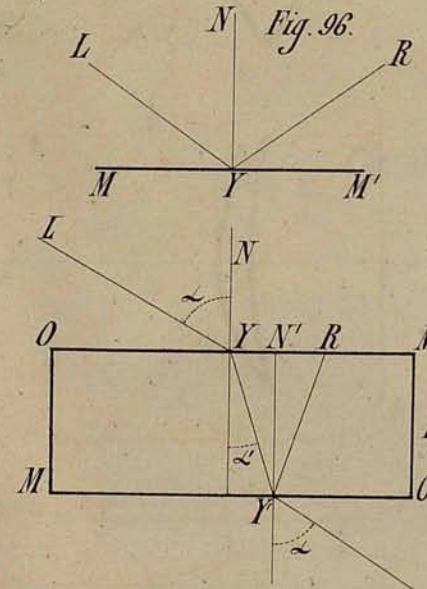
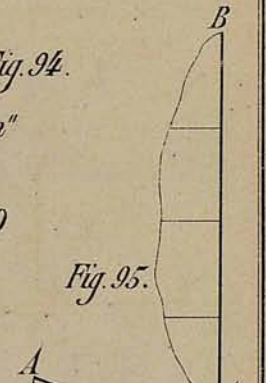
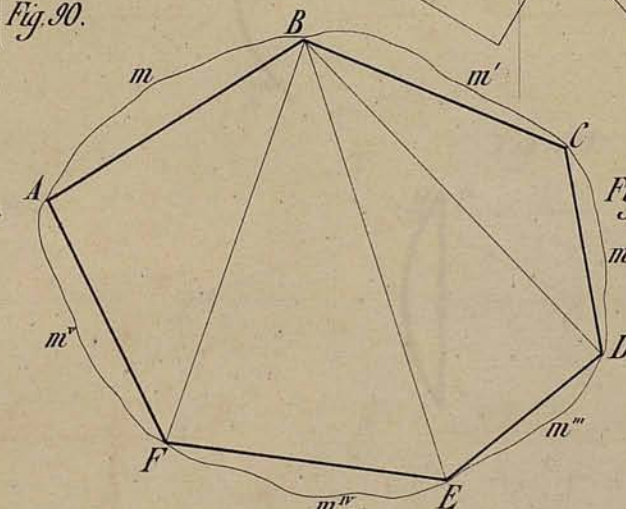
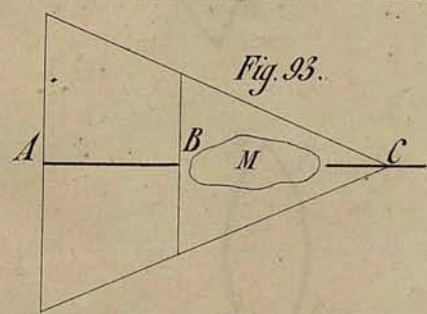
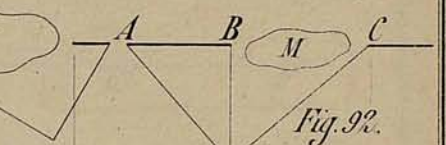
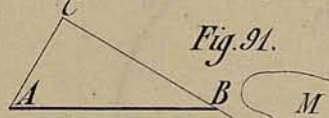
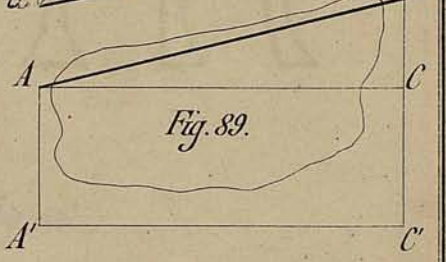
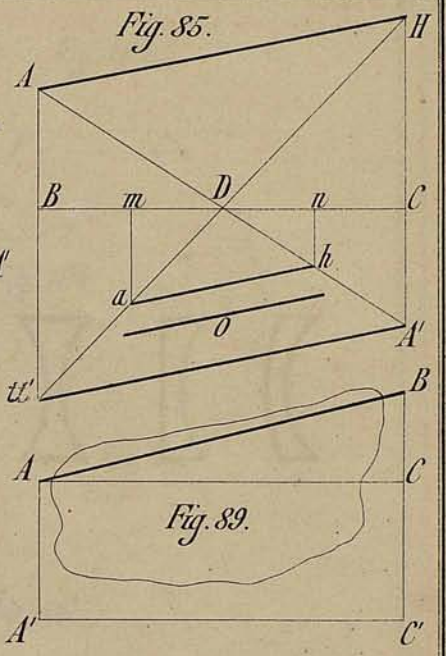
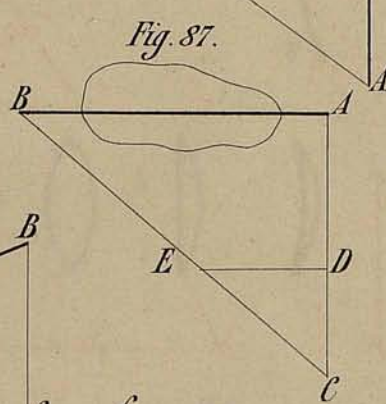
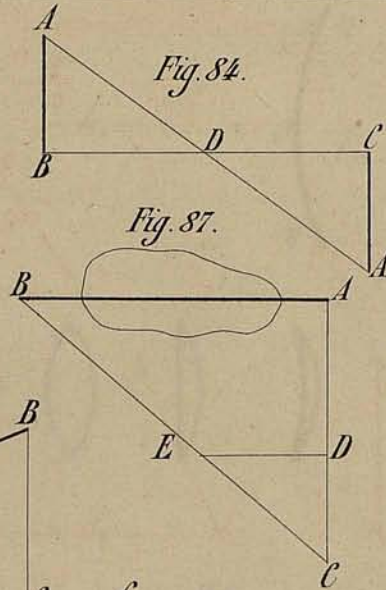
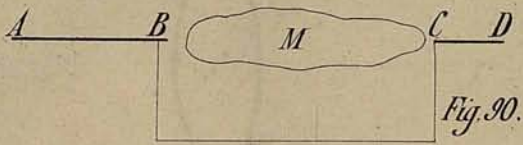
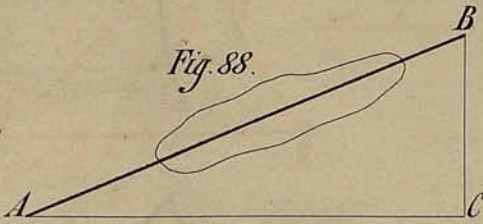
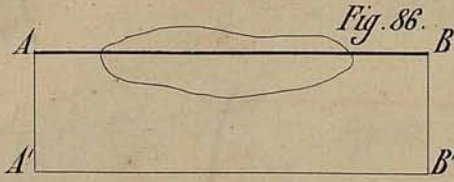
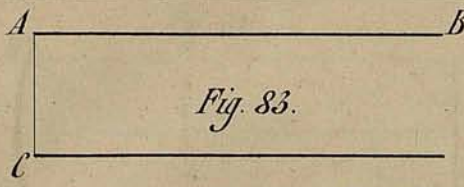


Fig. 52.









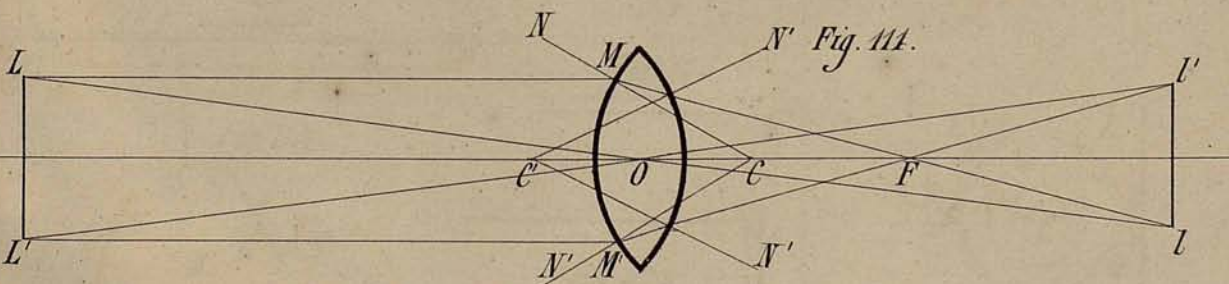
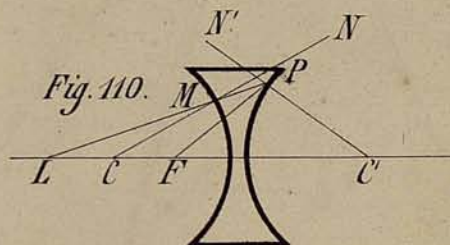
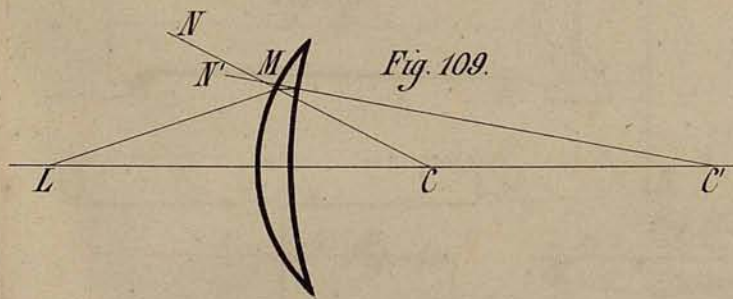
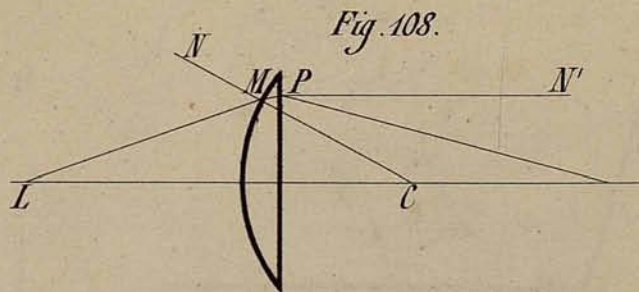
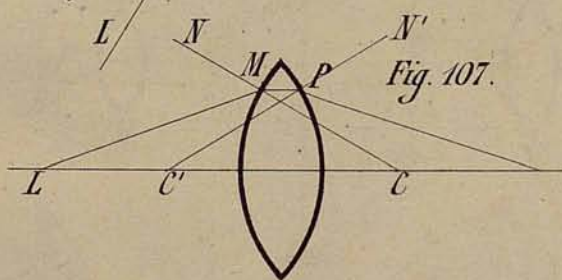
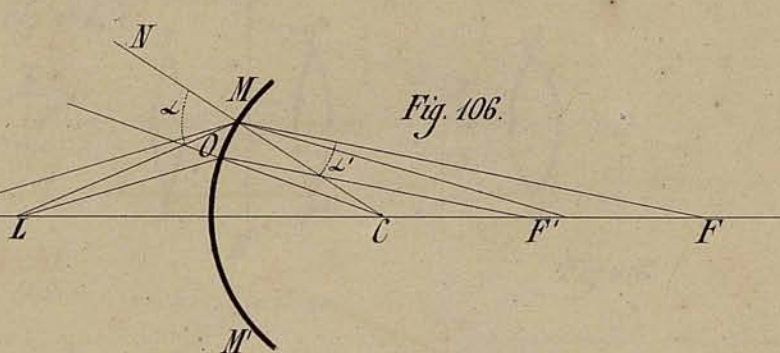
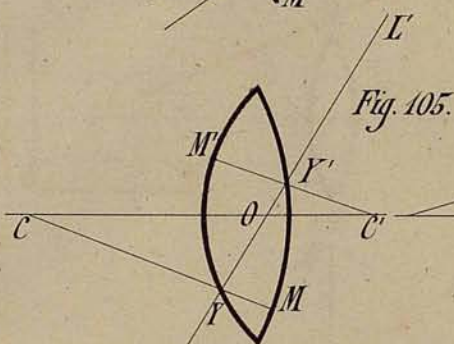
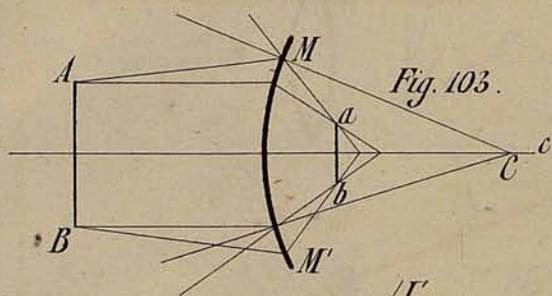
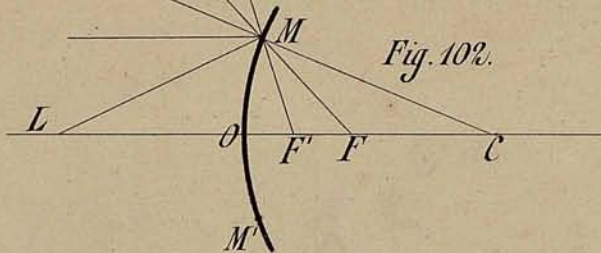
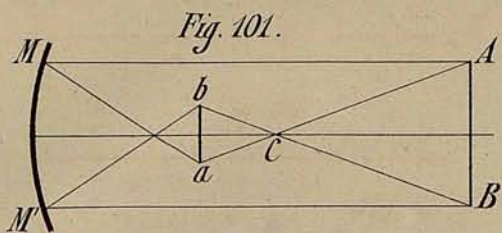


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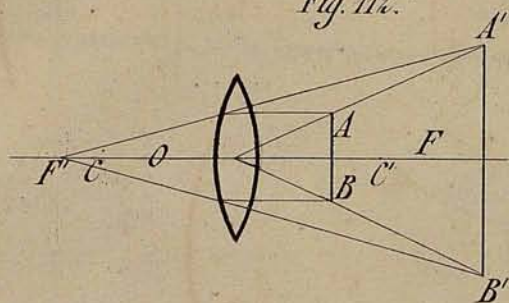


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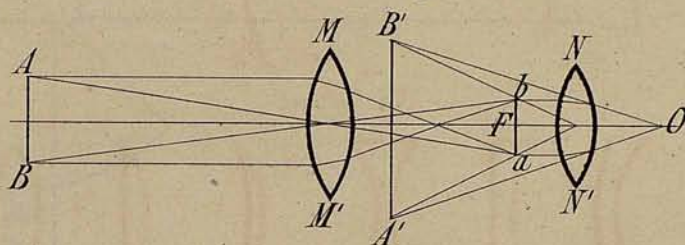


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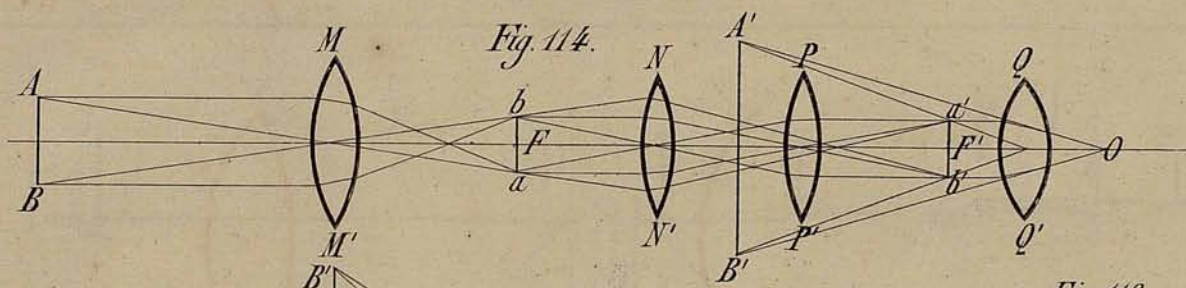


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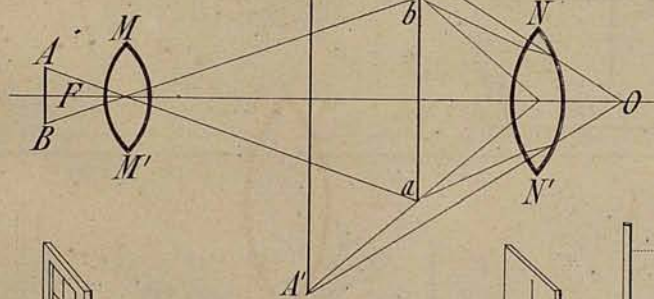


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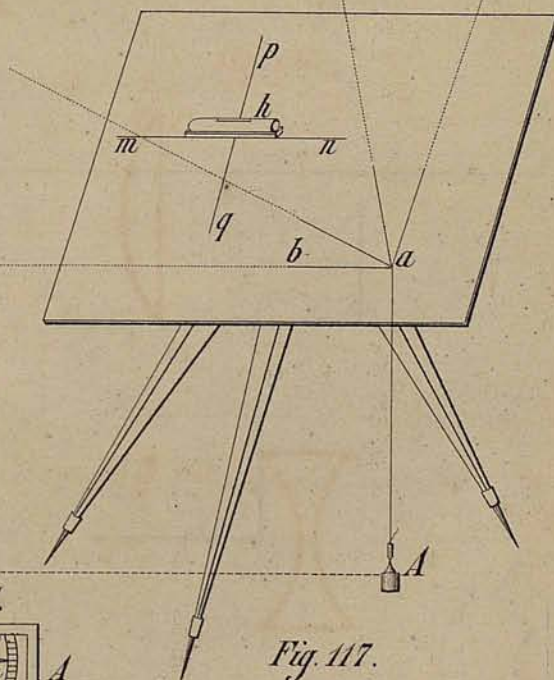


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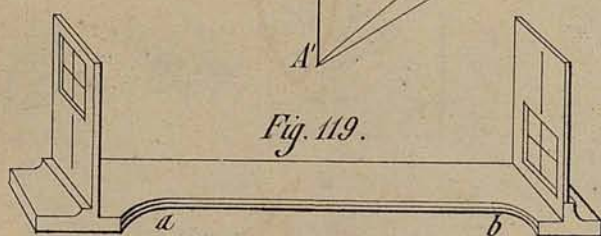


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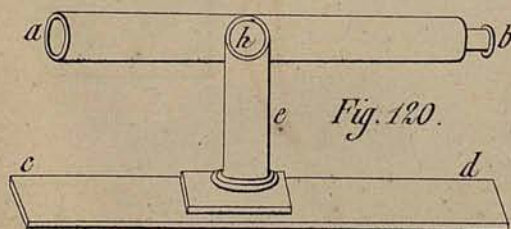


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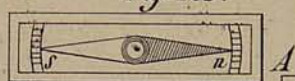


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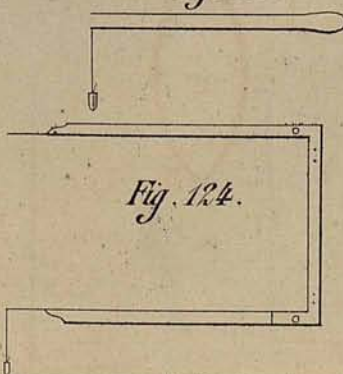


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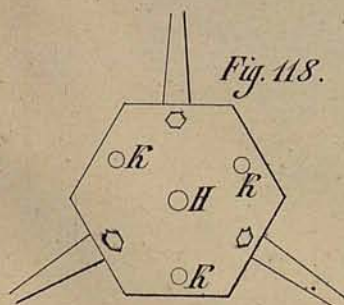


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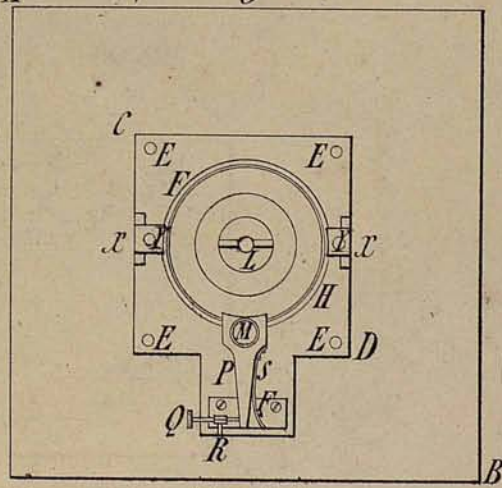


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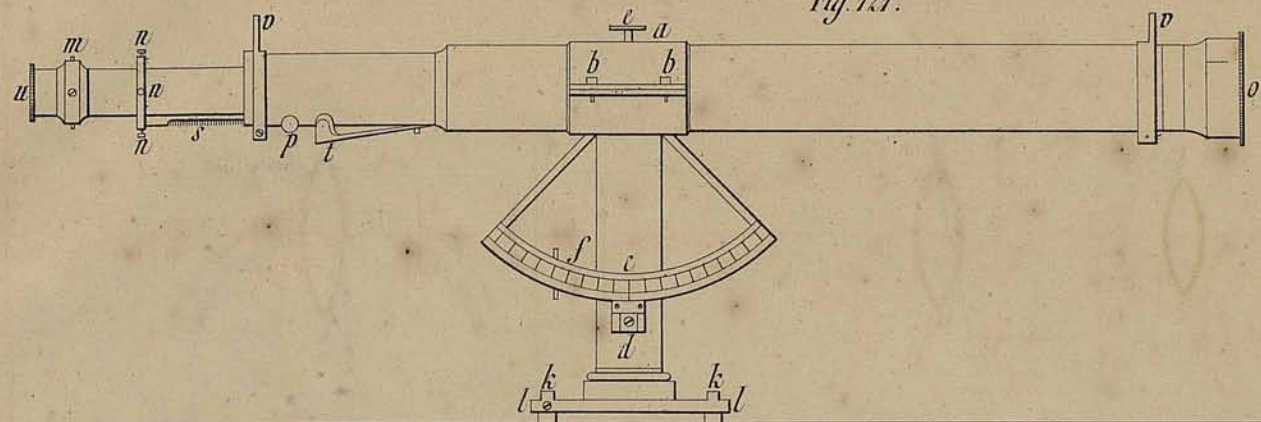


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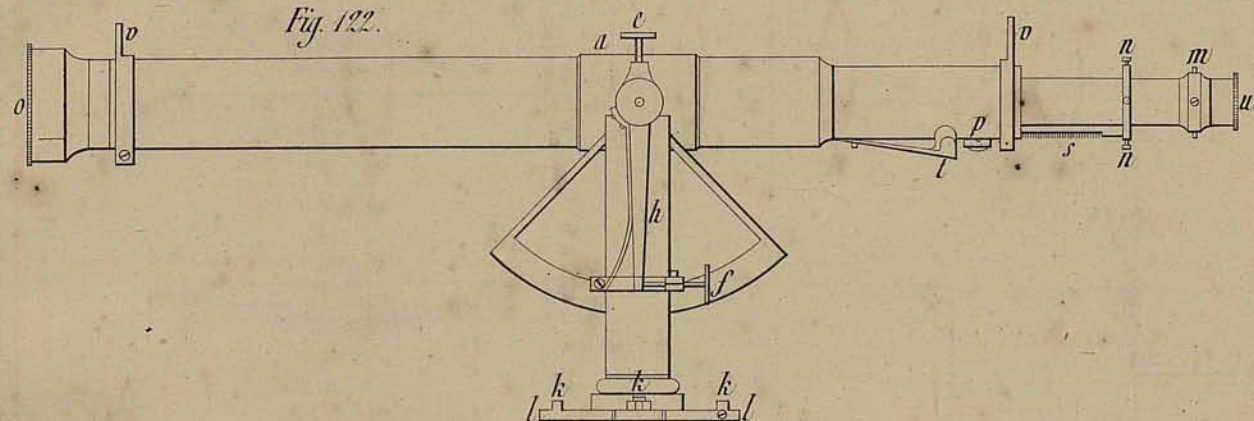


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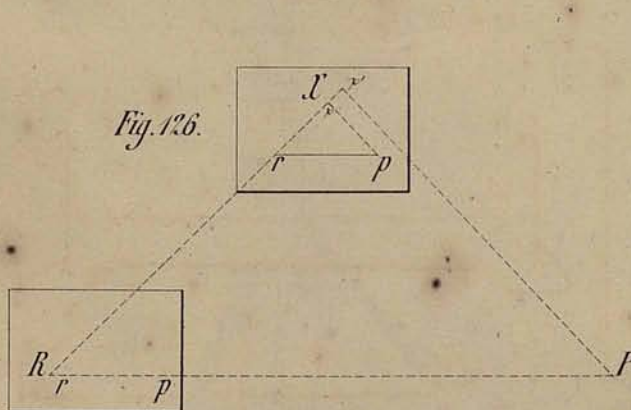


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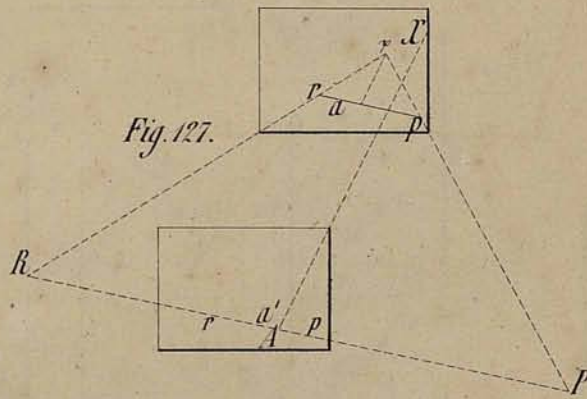


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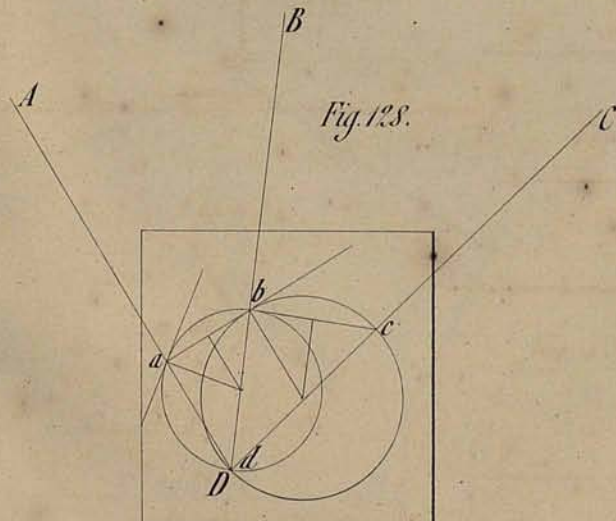


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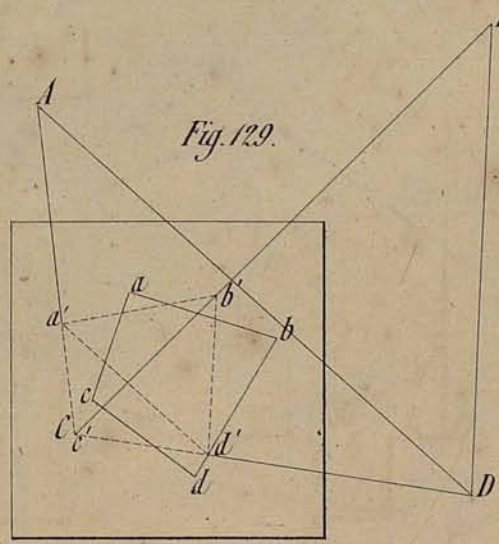


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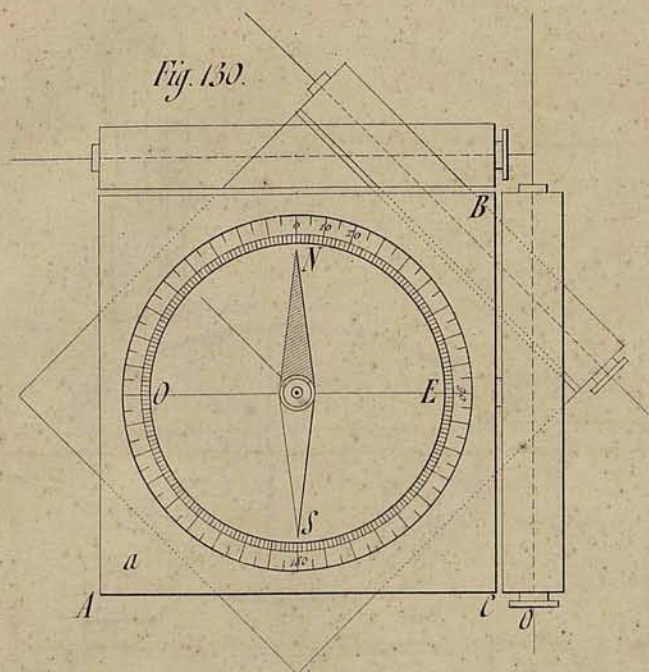


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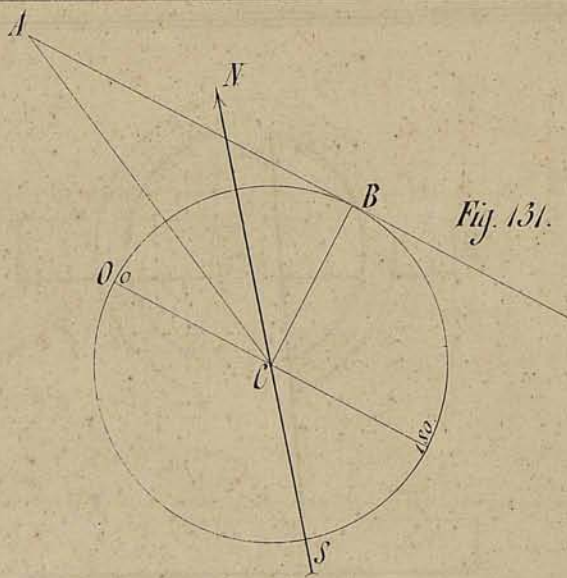


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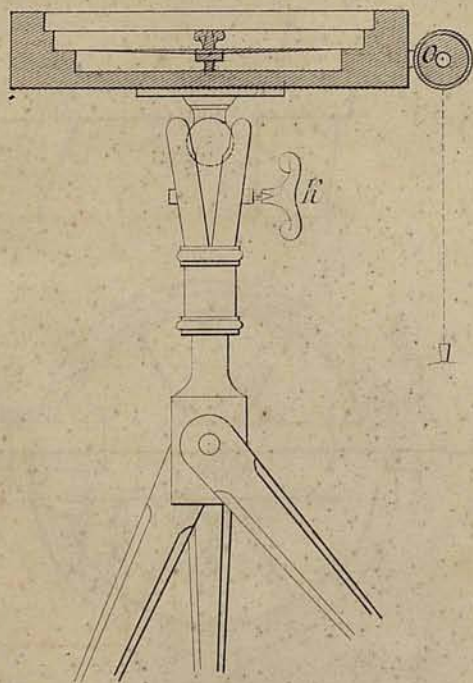
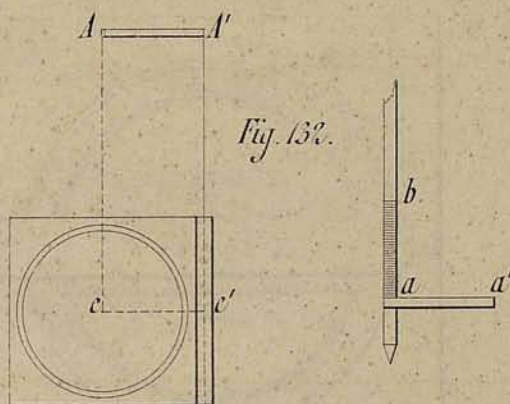


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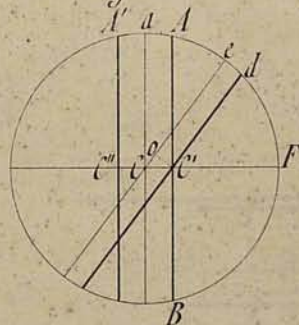


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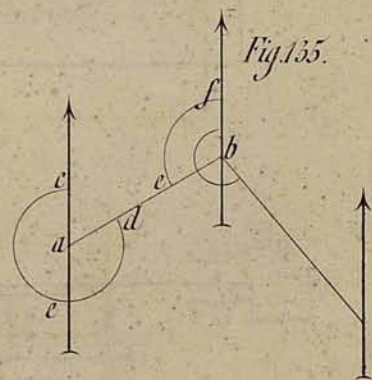


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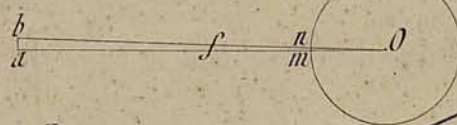


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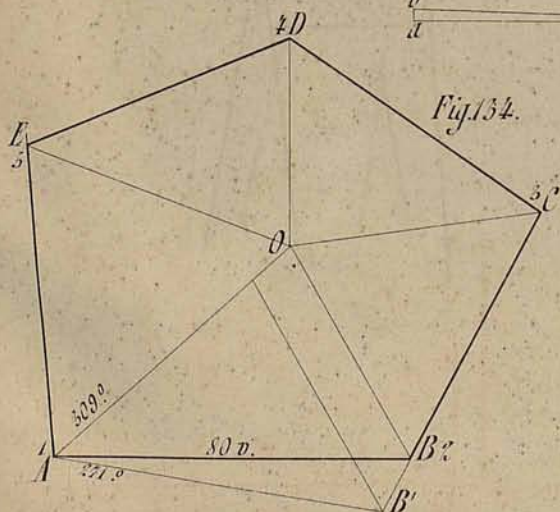
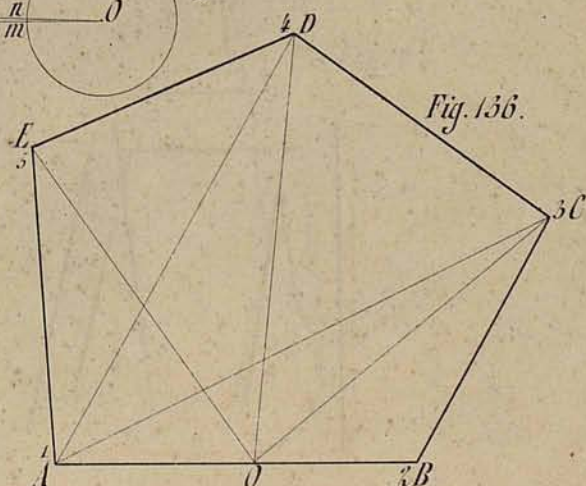


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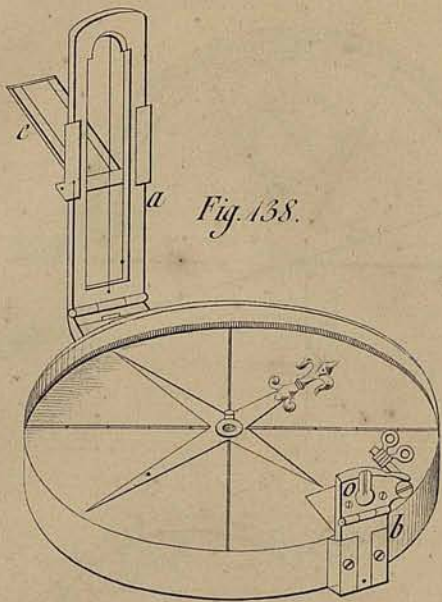


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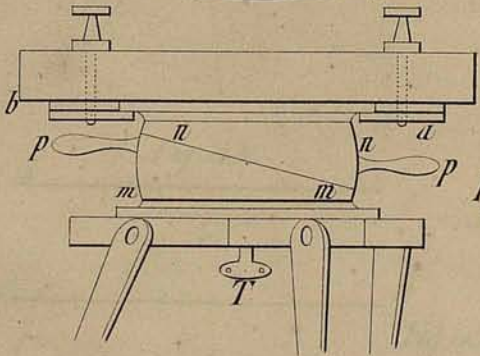


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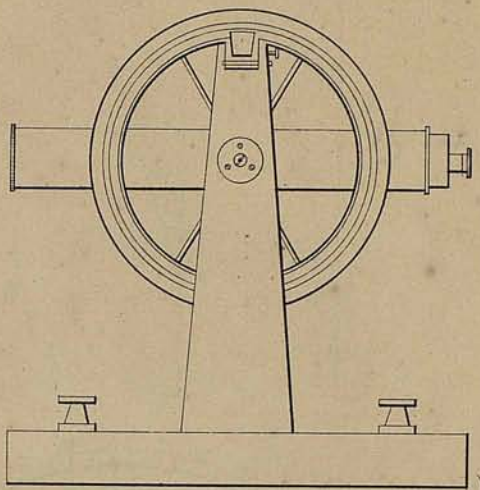


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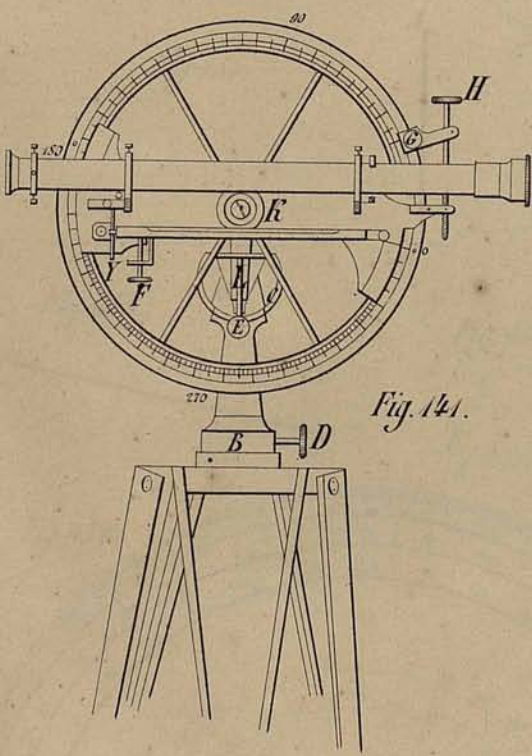
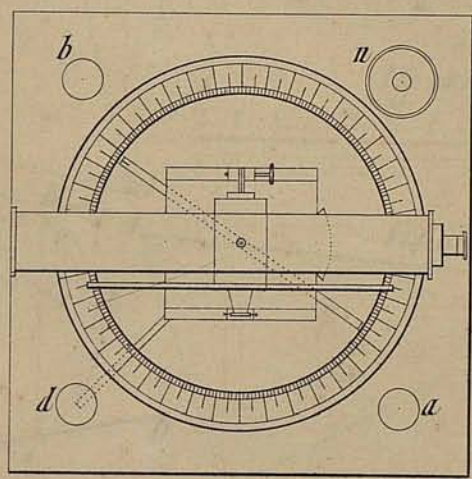


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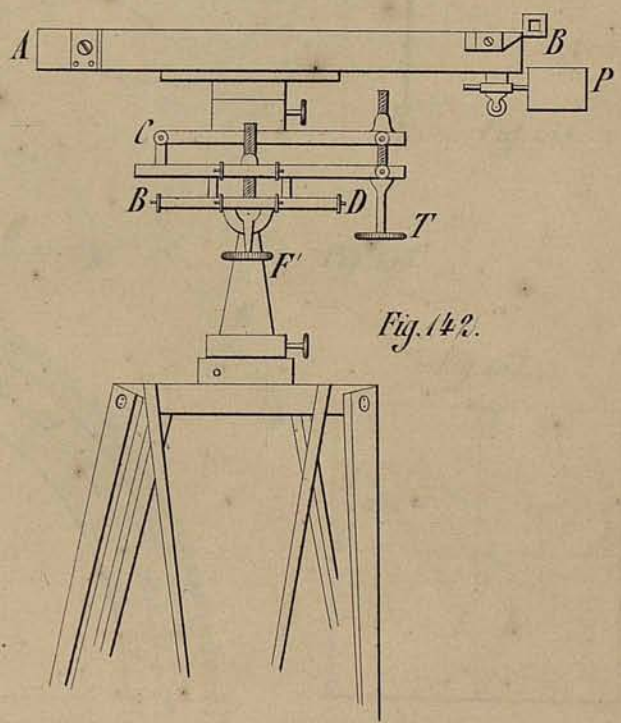


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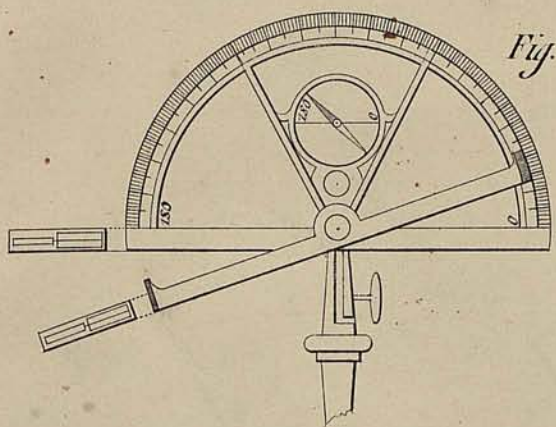


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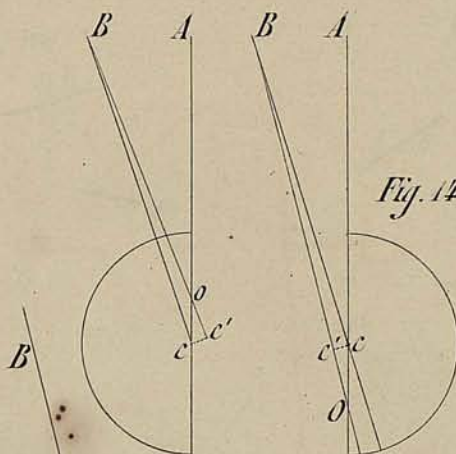


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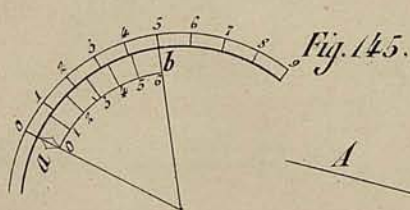


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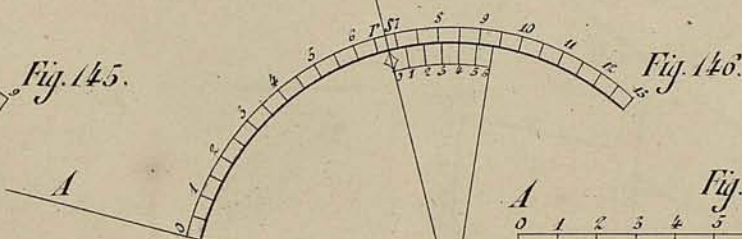


Fig. 146.



Fig. 147.

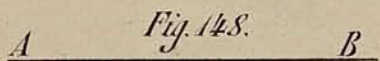


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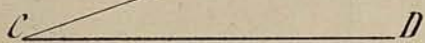


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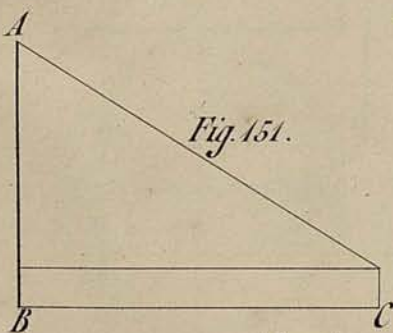


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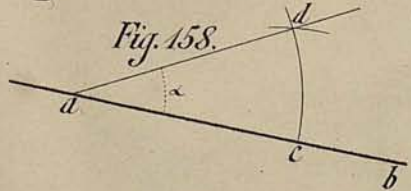


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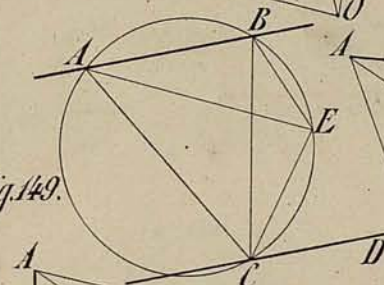


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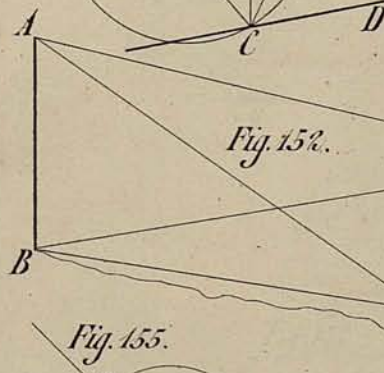


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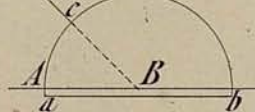


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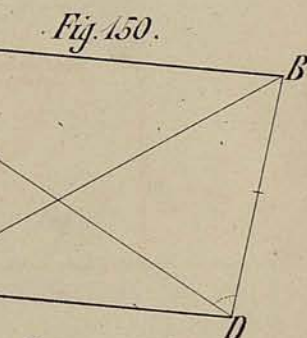


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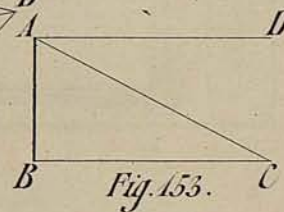


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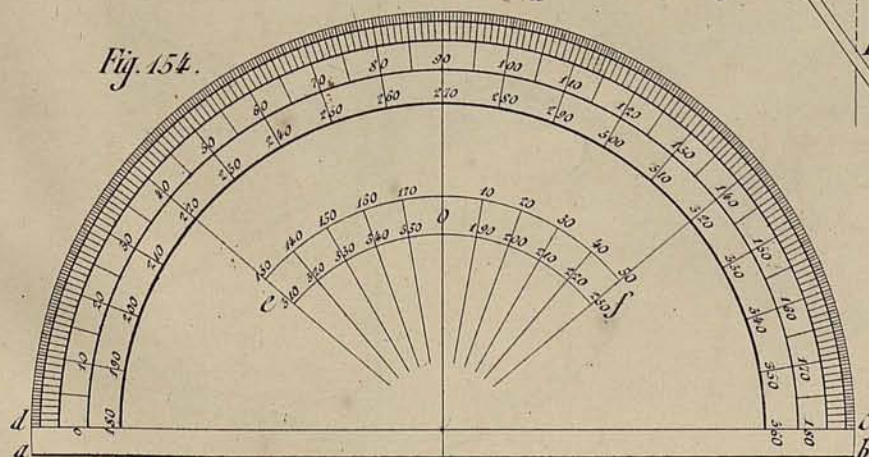


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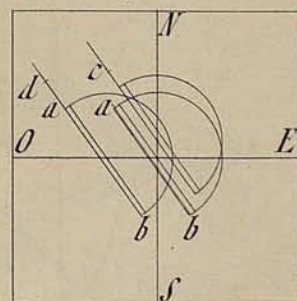


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Fig. 159.

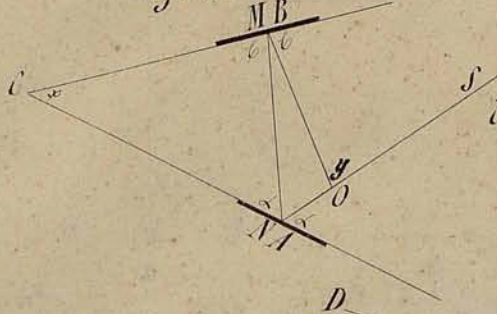


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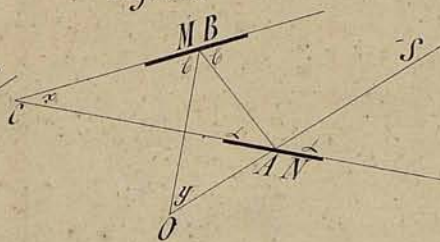


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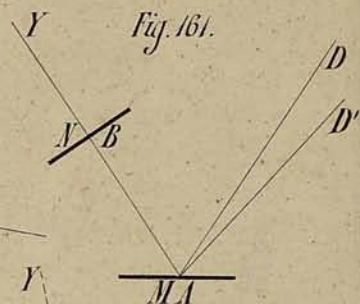


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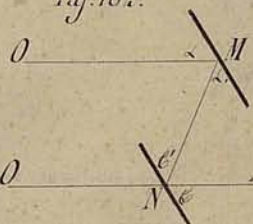


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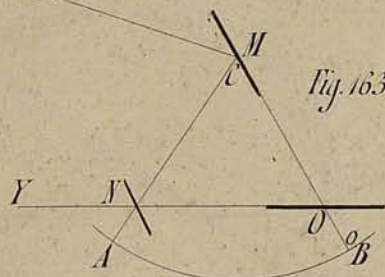


Fig. 165.



Fig. 169.

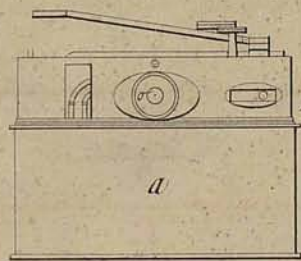


Fig. 166.



Fig. 168.

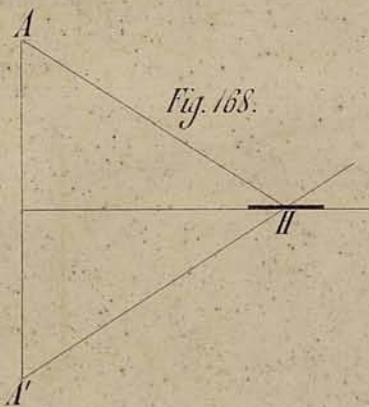


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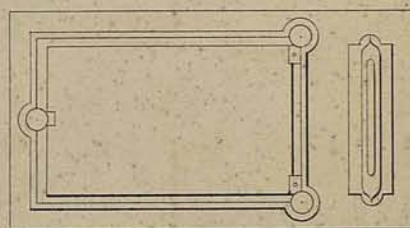


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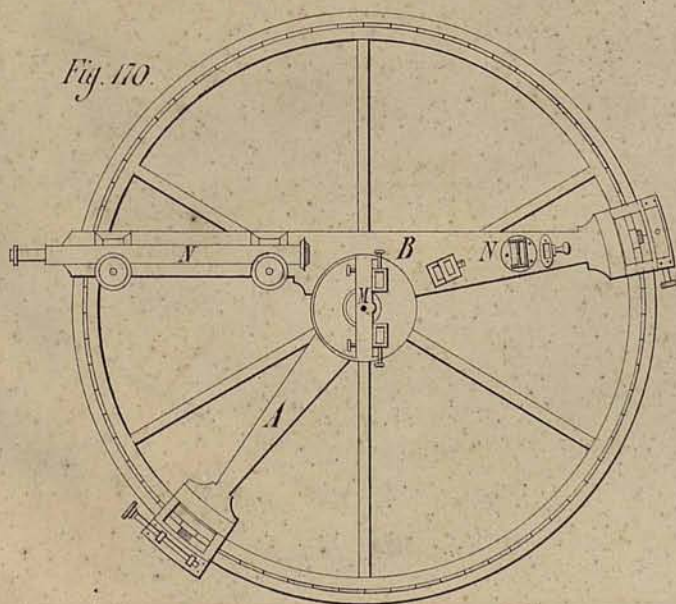


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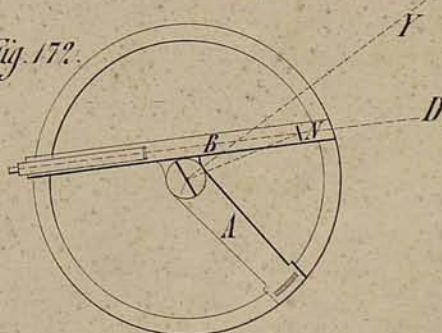
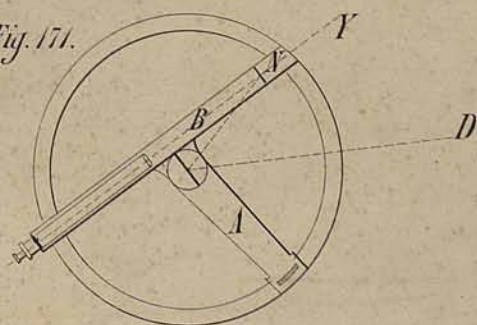
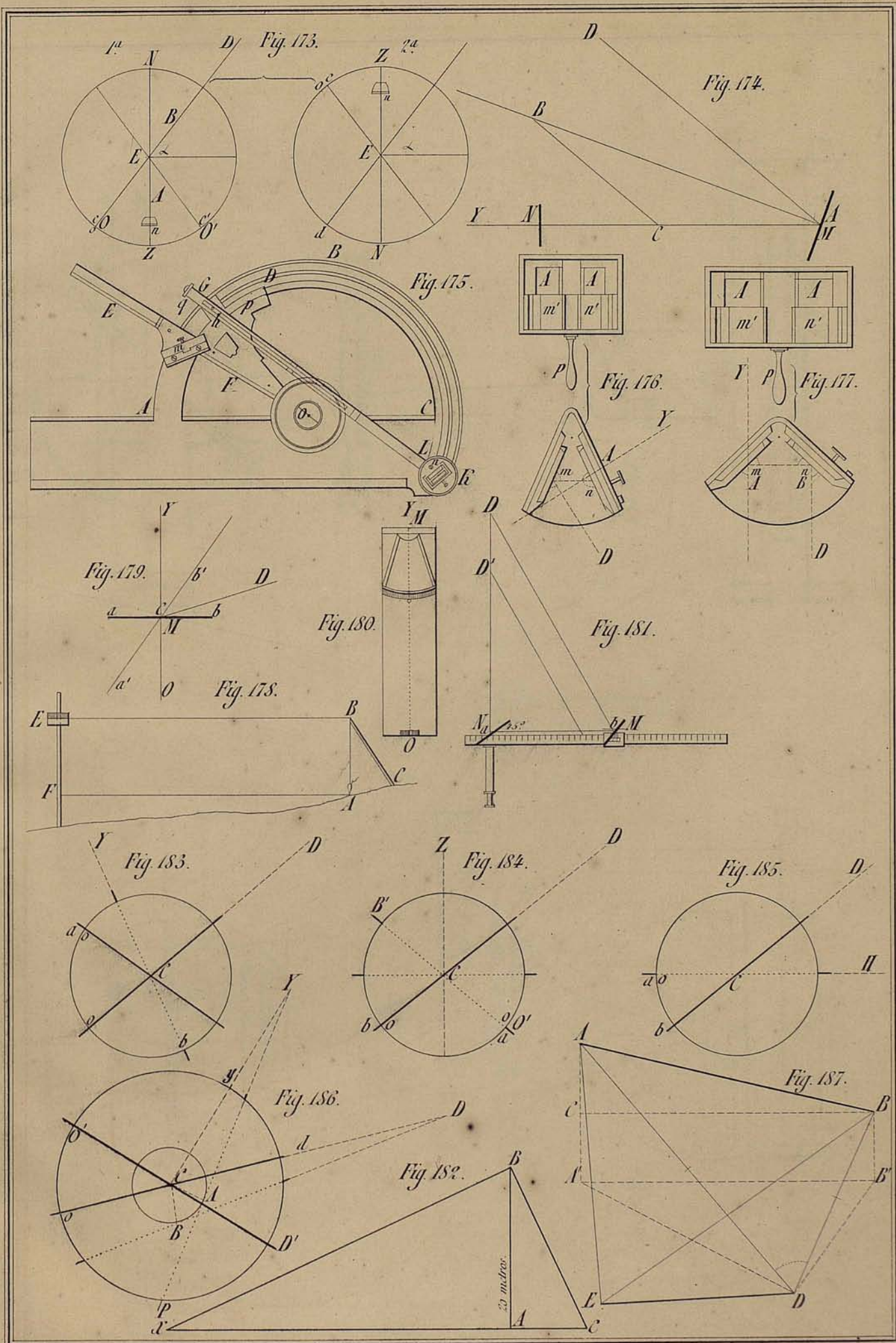


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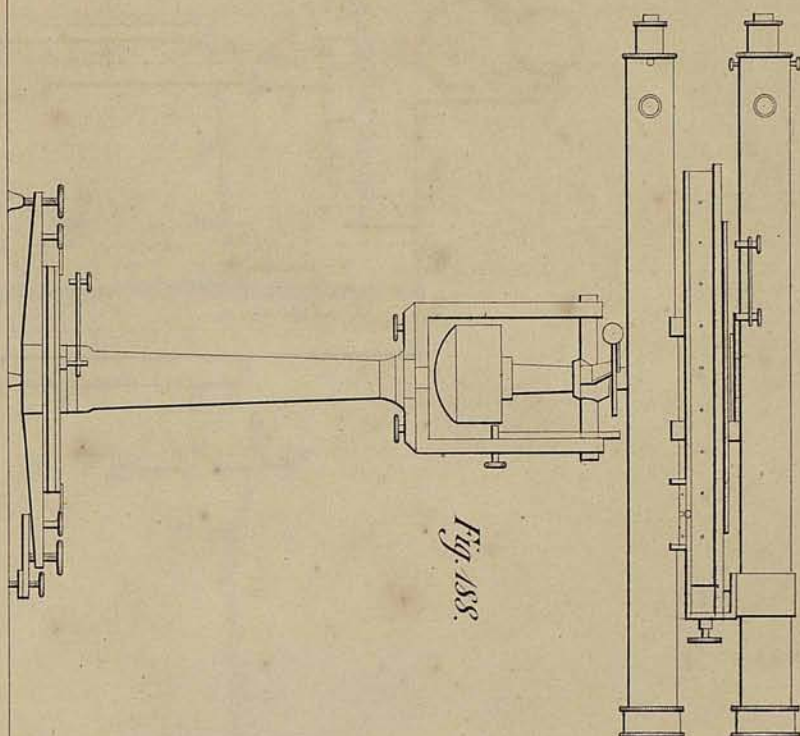


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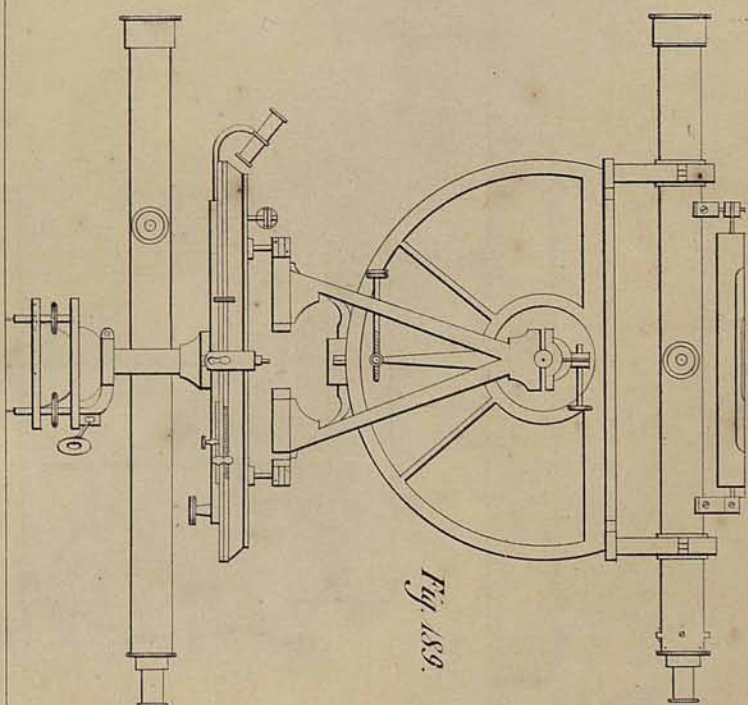
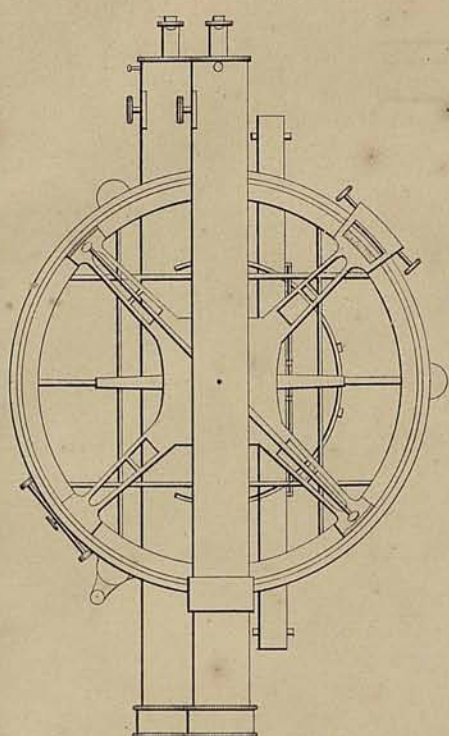
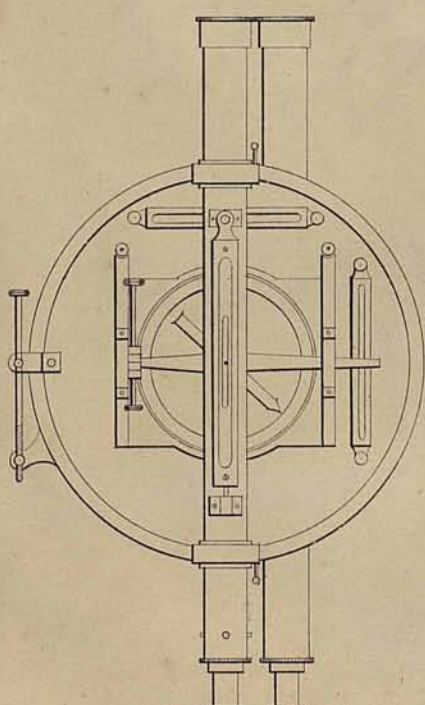
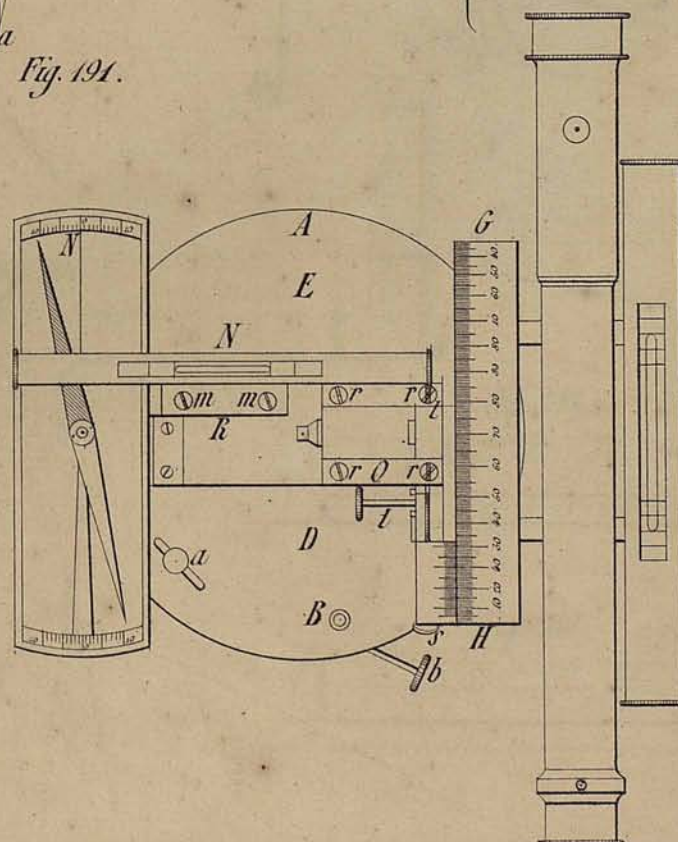
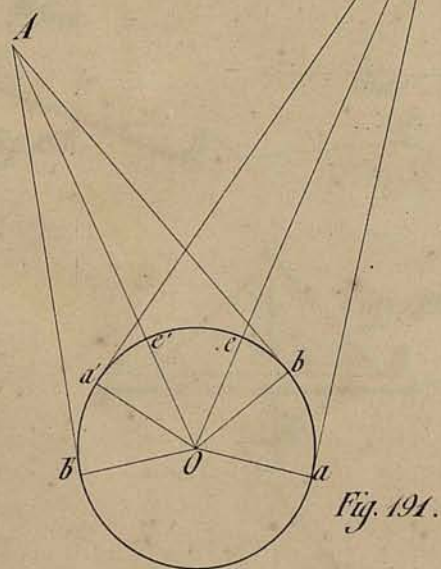
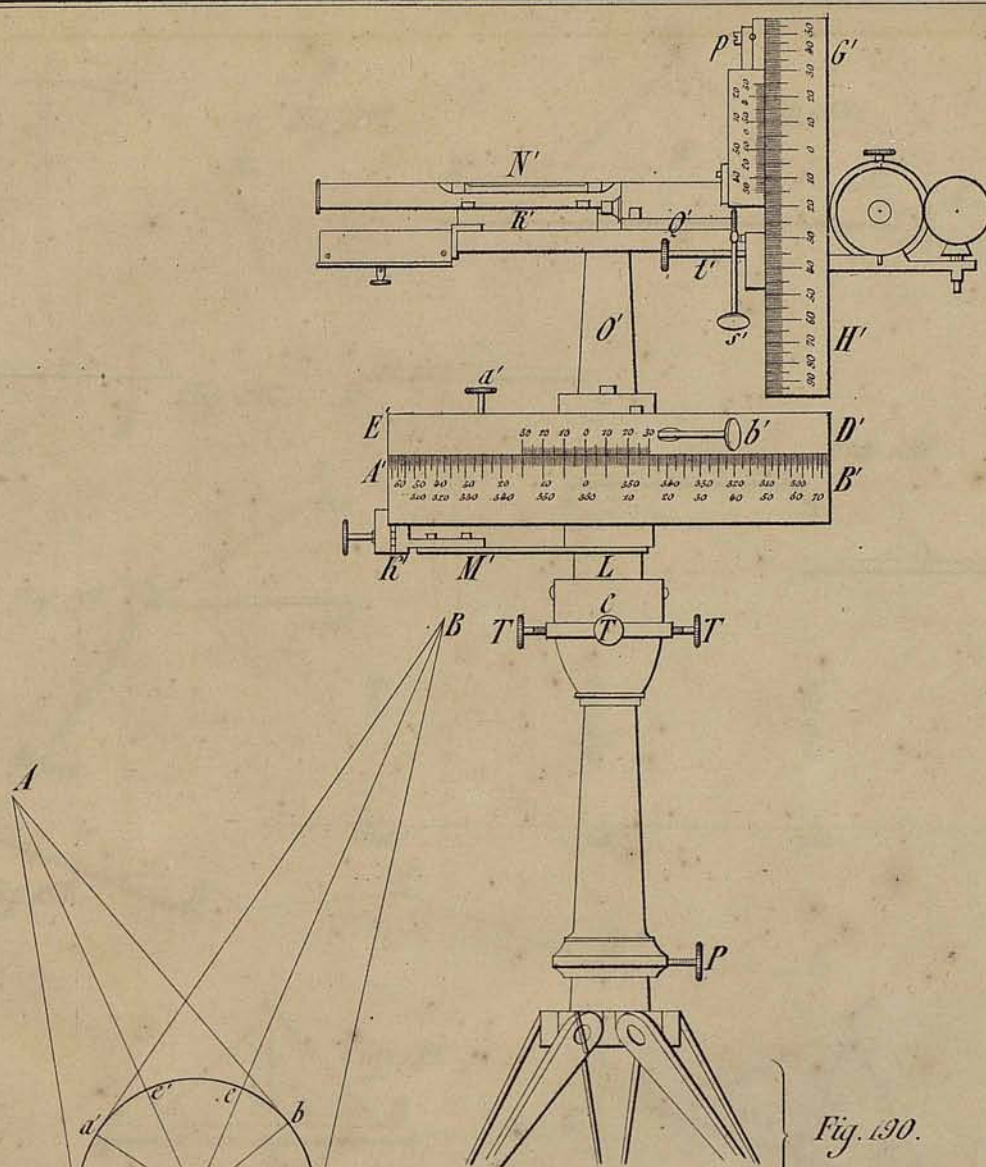


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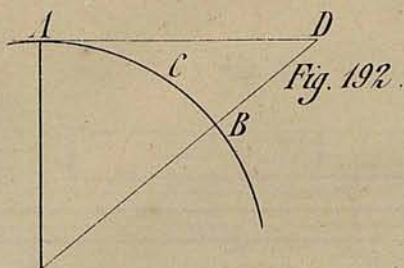


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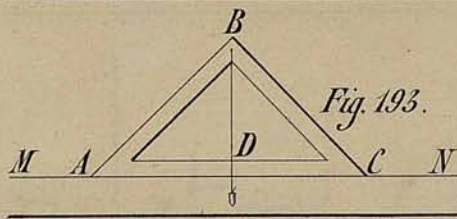


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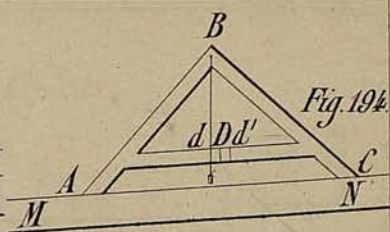


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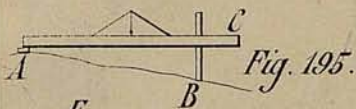


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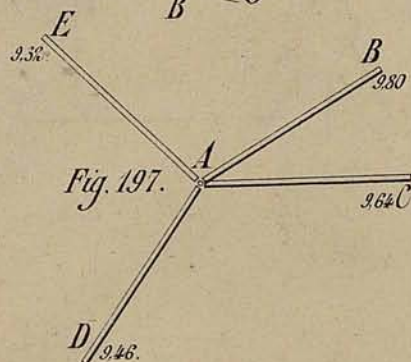


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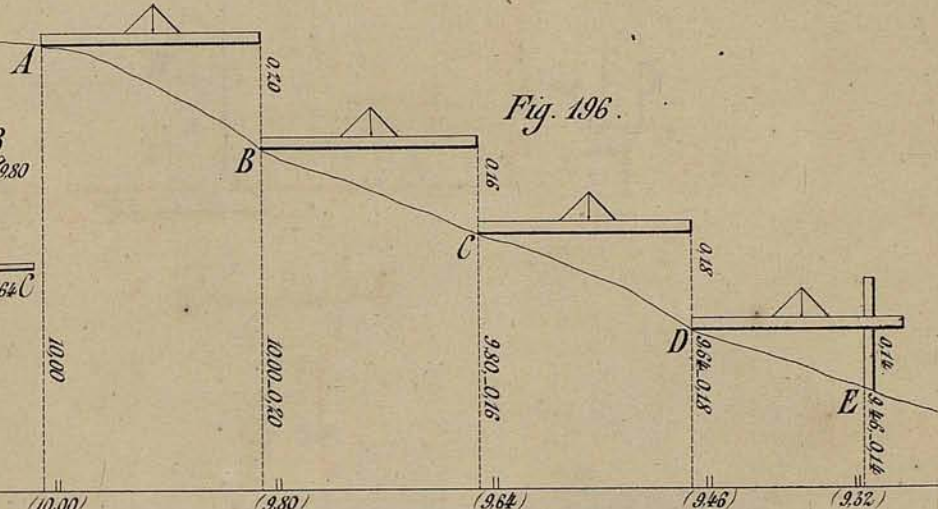


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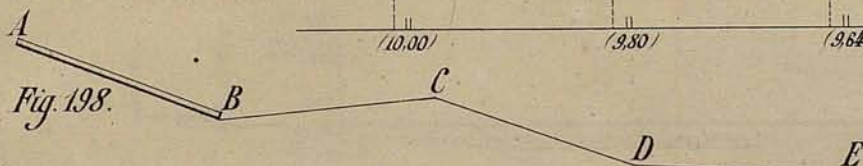


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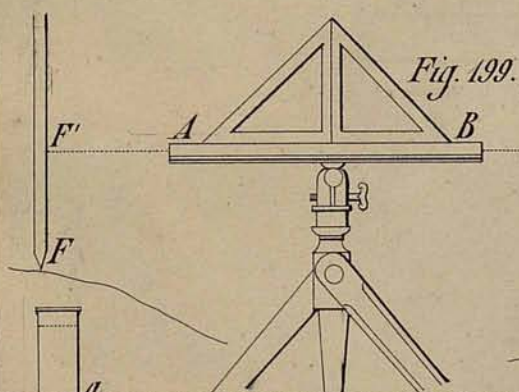


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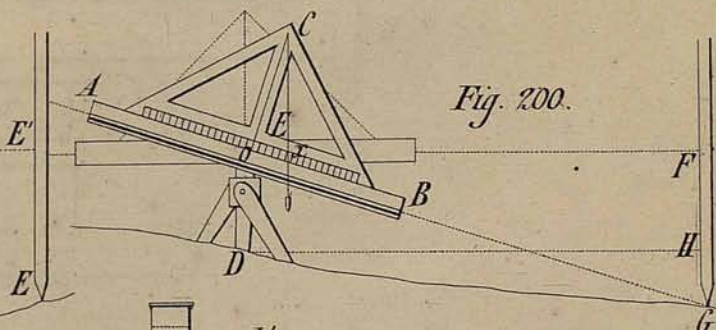


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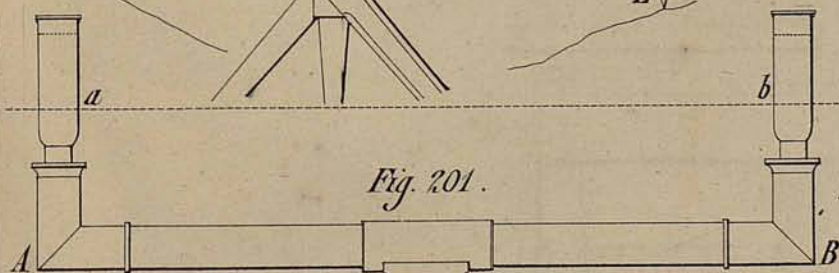


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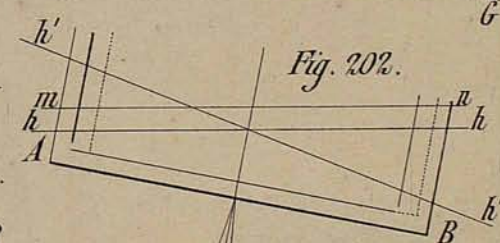


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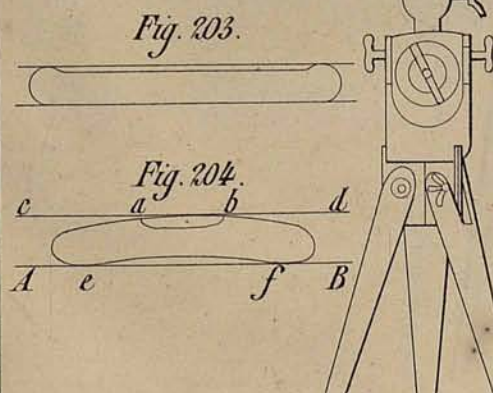


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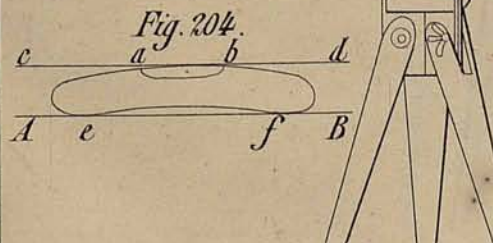


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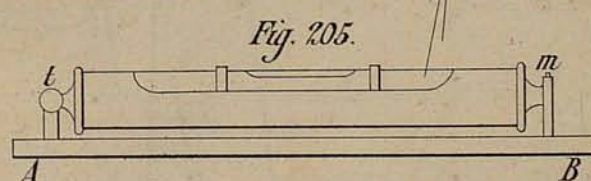


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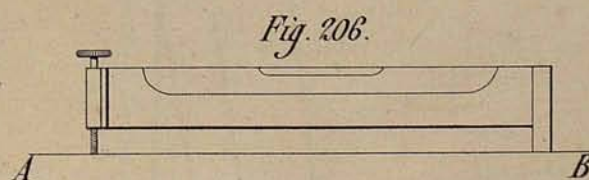


Fig. 206.

Fig. 207.

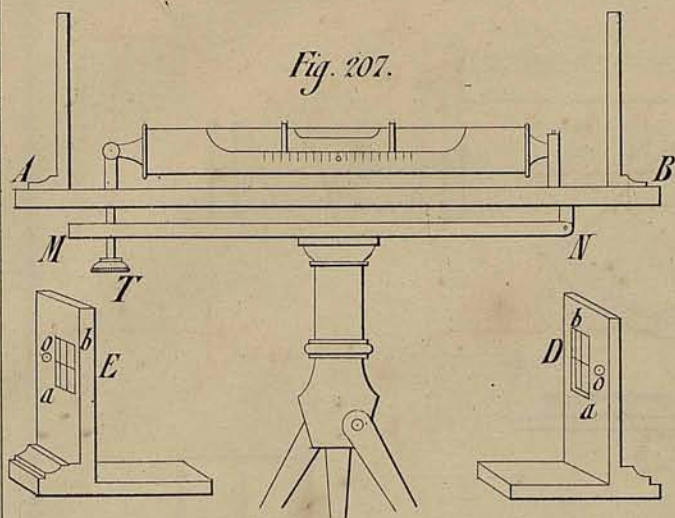


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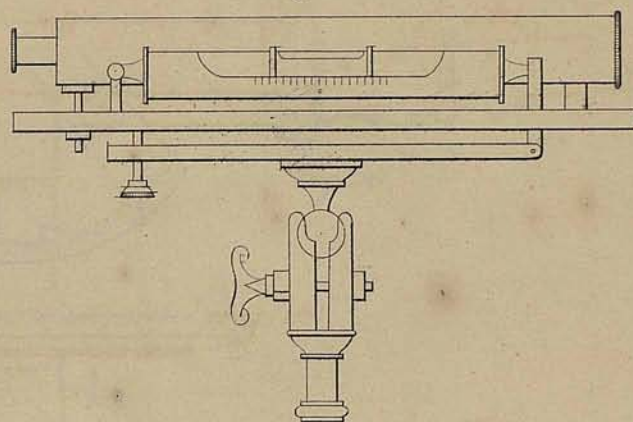
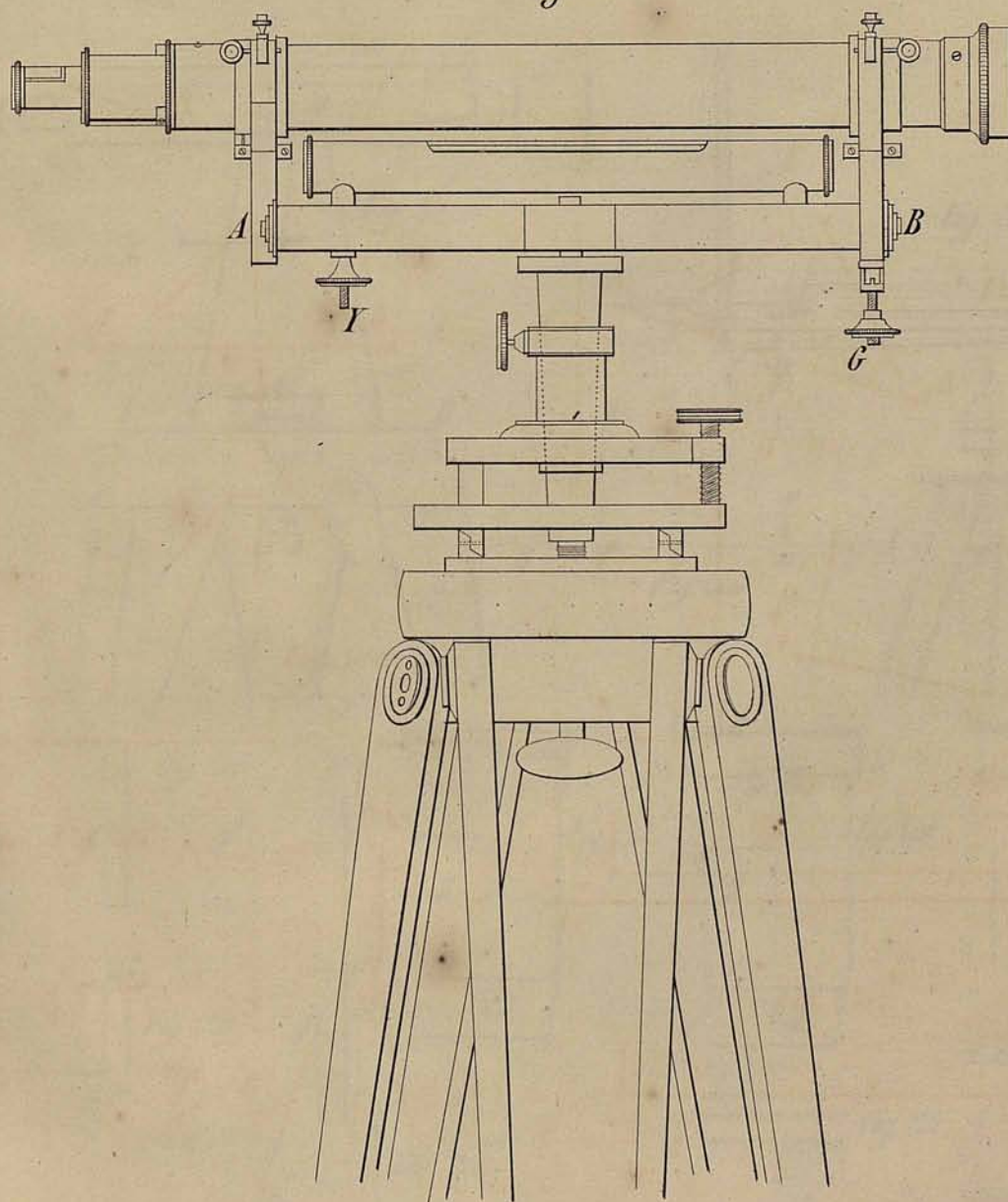


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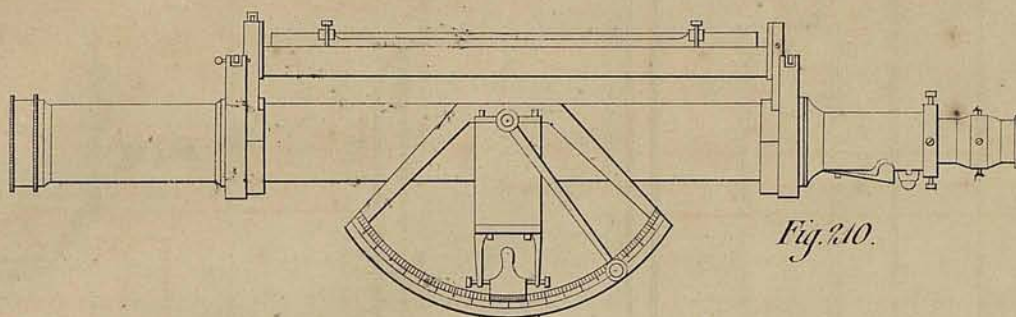


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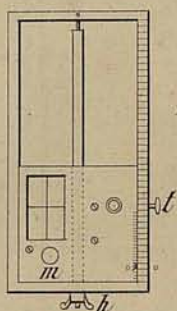


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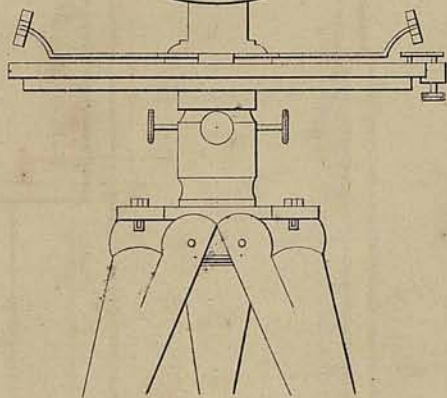


Fig. 214.

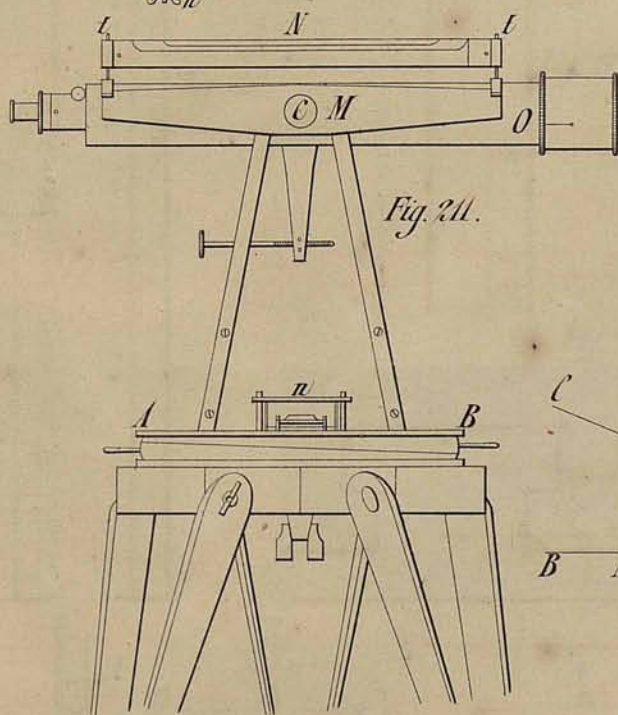
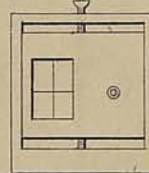


Fig. 211.

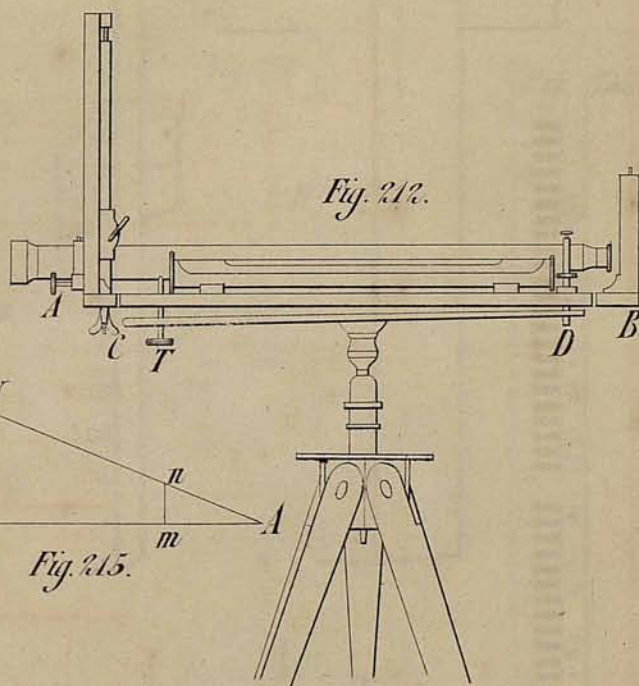


Fig. 212.

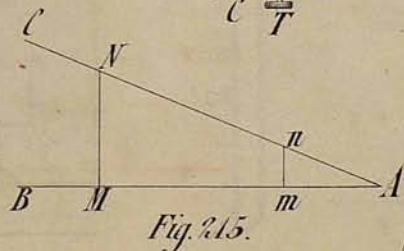


Fig. 215.

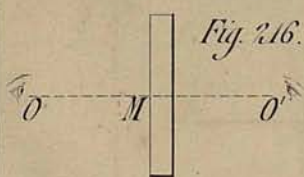


Fig. 216.

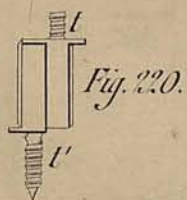


Fig. 220.



Fig. 221.

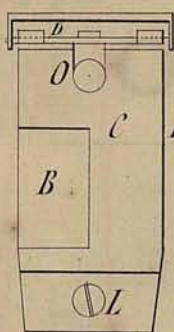


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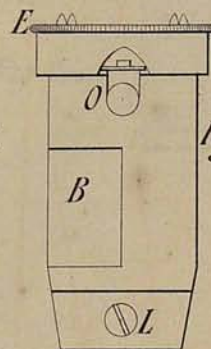


Fig. 218.

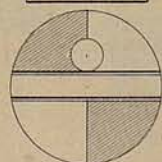


Fig. 222.

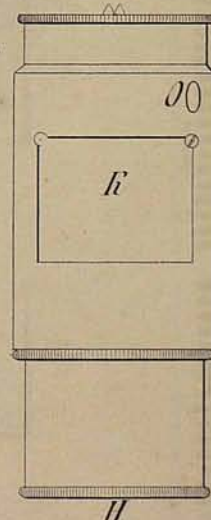
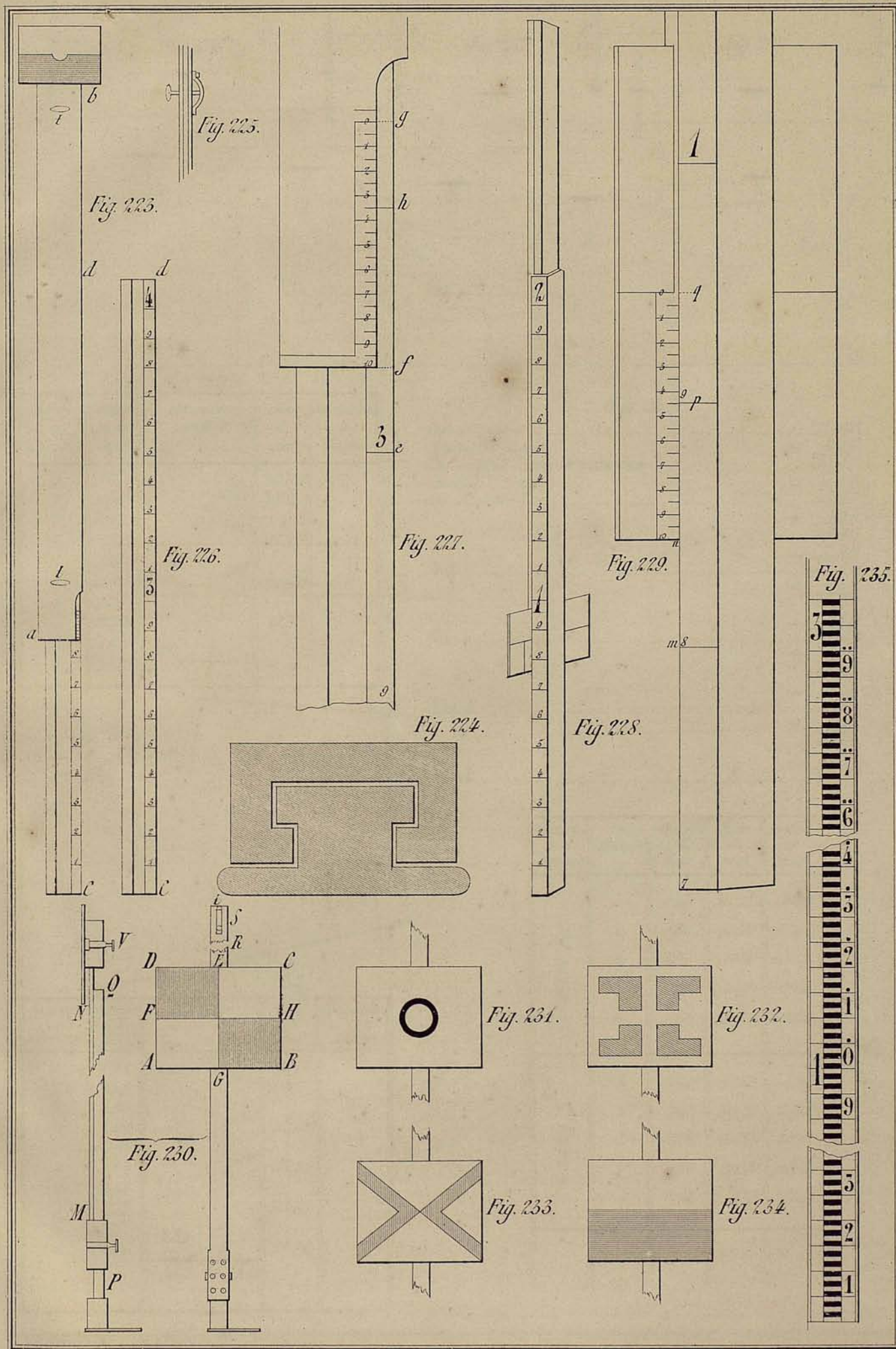


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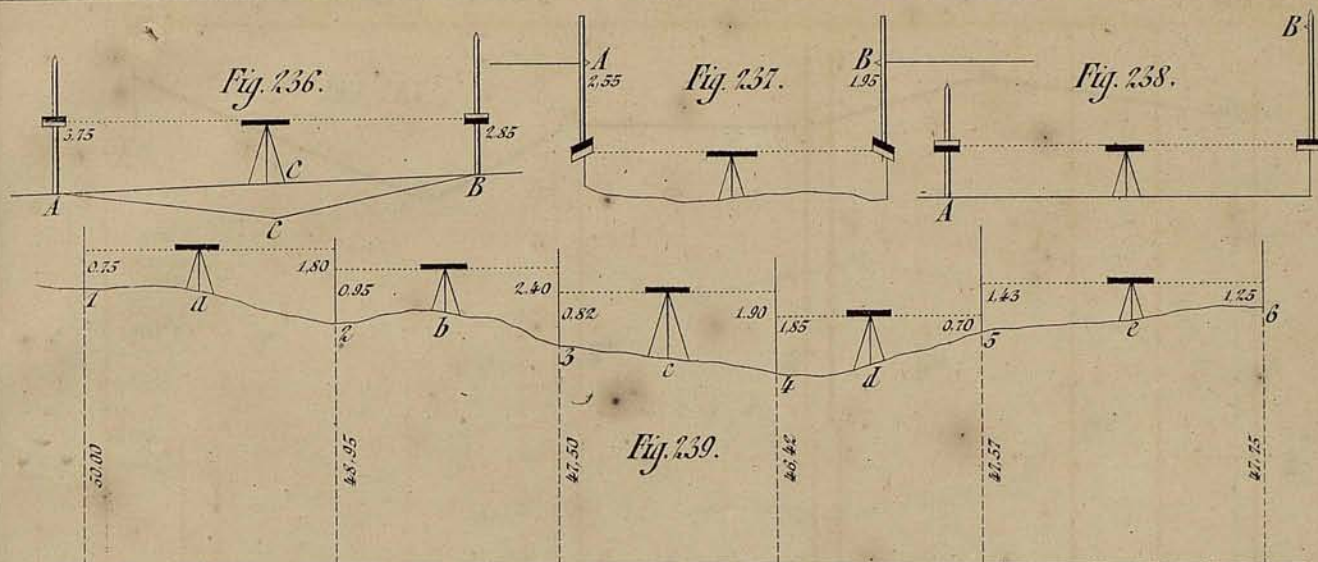


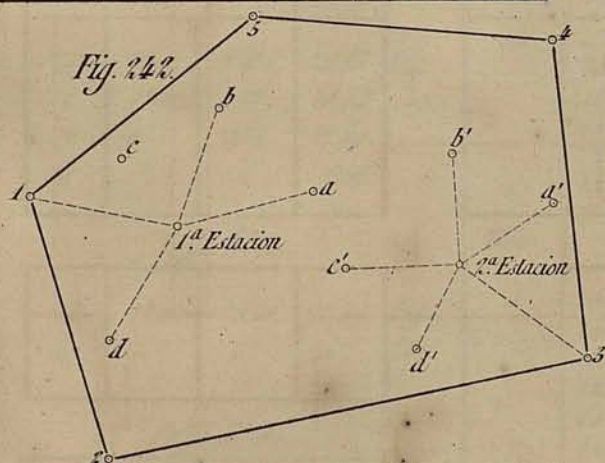
Fig. 240.

Numeros de las Estaciones.	Alturas de la Mira.	Diferencias de nivel en		Cotas de nivel.	Observaciones y Señales.
		+	-		
1	0.75			50.00	
2	1.80		1.05	48.95	
2	0.95		1.45	47.50	
3	2.40			47.50	
3	0.82		1.08	46.42	
4	1.90			46.42	
4	1.85	1.15		47.57	
5	0.70			47.57	
5	1.43	0.18		47.75	
6	1.25			47.75	

Fig. 241.

Cota del punto 1	50.00
Nivelada de espalda	+ 0.75
Cota del plano de nivel de instrumento	50.75
Nivelada de frente	- 1.80
Cota del punto 2	48.95
	+ 0.95
	49.90
	- 2.40
Punto 3	47.50
	+ 0.82
	48.32
	- 1.90
Punto 4	46.42
	+ 1.85
	48.27
	- 0.70
Punto 5	47.57
	+ 1.43
	49.00
	- 1.25
Punto 6	47.75

Fig. 242.

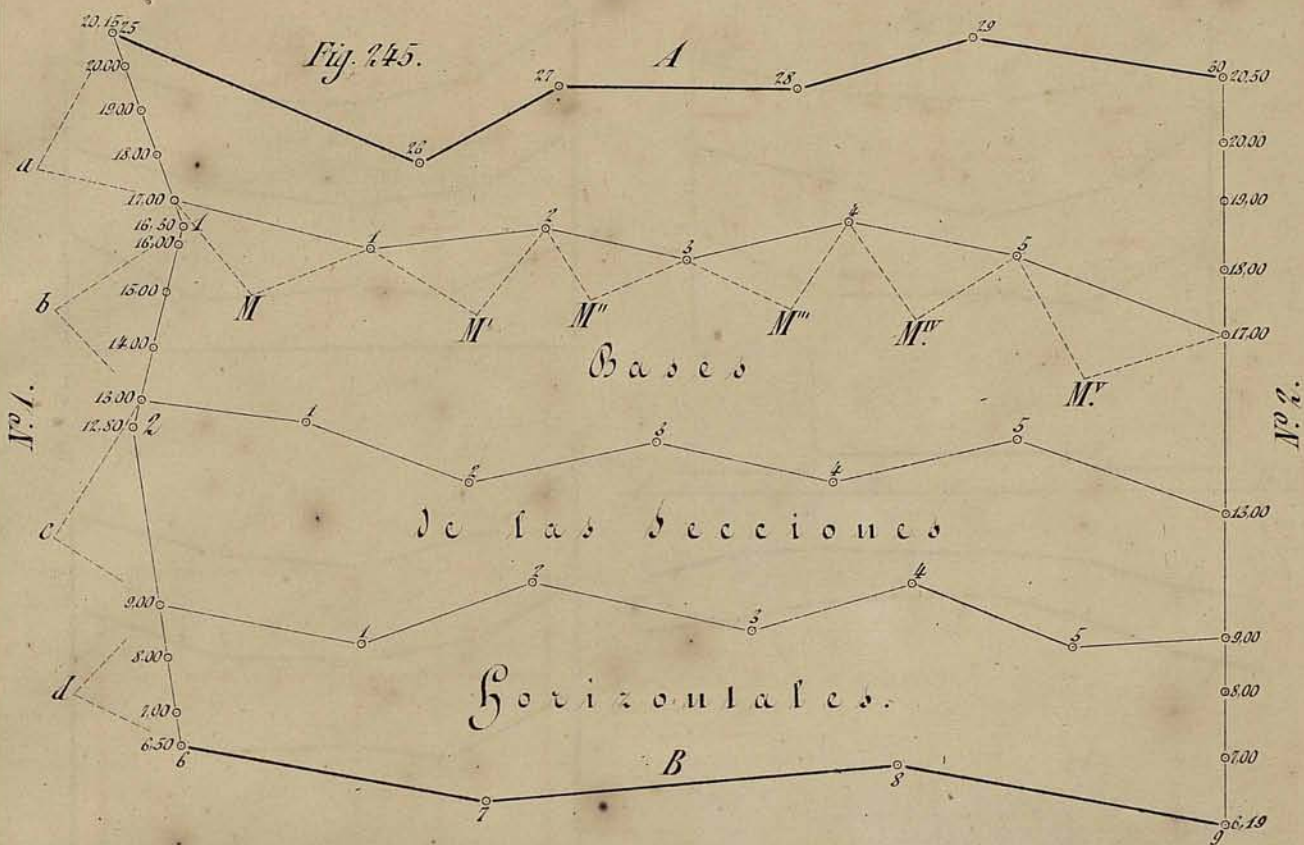


Numeros de las Estaciones.	Alturas de la Mira.	Diferencias de nivel en		Cotas de nivel.	Observaciones y Señales.
		+	-		
1	0.75			50.00	
2	1.80		1.05	48.95	
2	0.95		1.45	47.50	
3	2.40			47.50	
3	0.82		1.08	46.42	
4	1.90			46.42	
4	1.85	1.15		47.57	
5	0.70			47.57	
5	3.98	2.43		50.00	
1	1.55			50.00	
		358	358		

Fig. 243.

Numeros de las Estaciones.	Puntos nivelados.	Alturas de la Mira.	Plano del nivel.	Cotas de nivel.
1ª Estación.	1	1.20	51.20	50.00
	a	1.08	51.20	50.12
	b	0.95	51.20	50.25
	c	0.76	51.20	50.44
	d	1.50	51.20	49.70
2ª Estación.	3	2.70	50.20	47.50
	a'	3.40	50.20	46.80
	b'	2.08	50.20	48.12
	c'	1.90	50.20	48.30
	d'	2.50	50.20	47.70

Fig. 244.



Perfil N.º 1.

Puntos de Estacion.	Medida de los Angulos Lados.		Cotas de nivel.
25	143°	120 v.	20 15
1	124°	99	16 30
2	153°	205	12 80
6	"	"	6 50

Fig. 246.

Perfil N.º 2.

30	113°	235 v.	20 50
E.ª	E.ª	E.ª	E.ª

Fig. 247.

Perfil N.º 3.

E.ª	E.ª	E.ª	E.ª
-----	-----	-----	-----

Fig. 248.

Fig. 250.

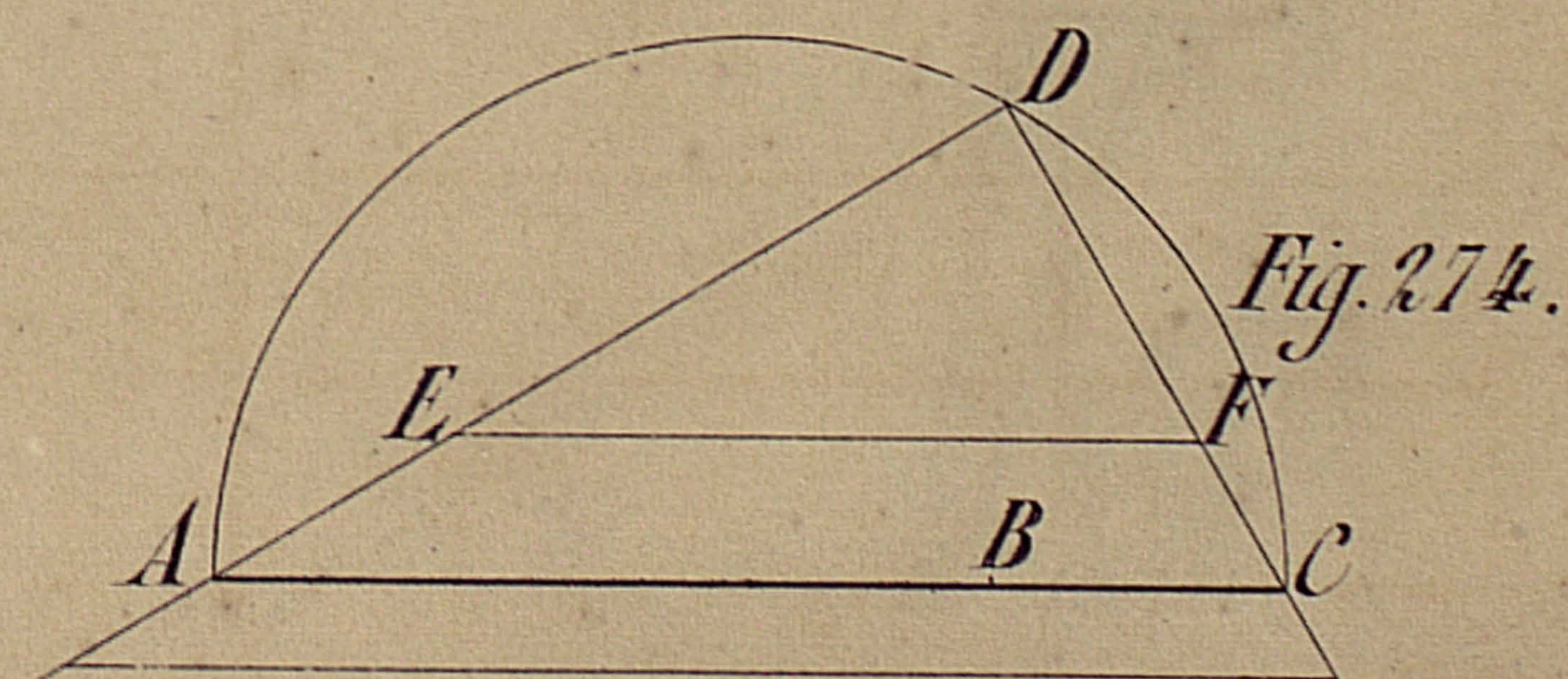
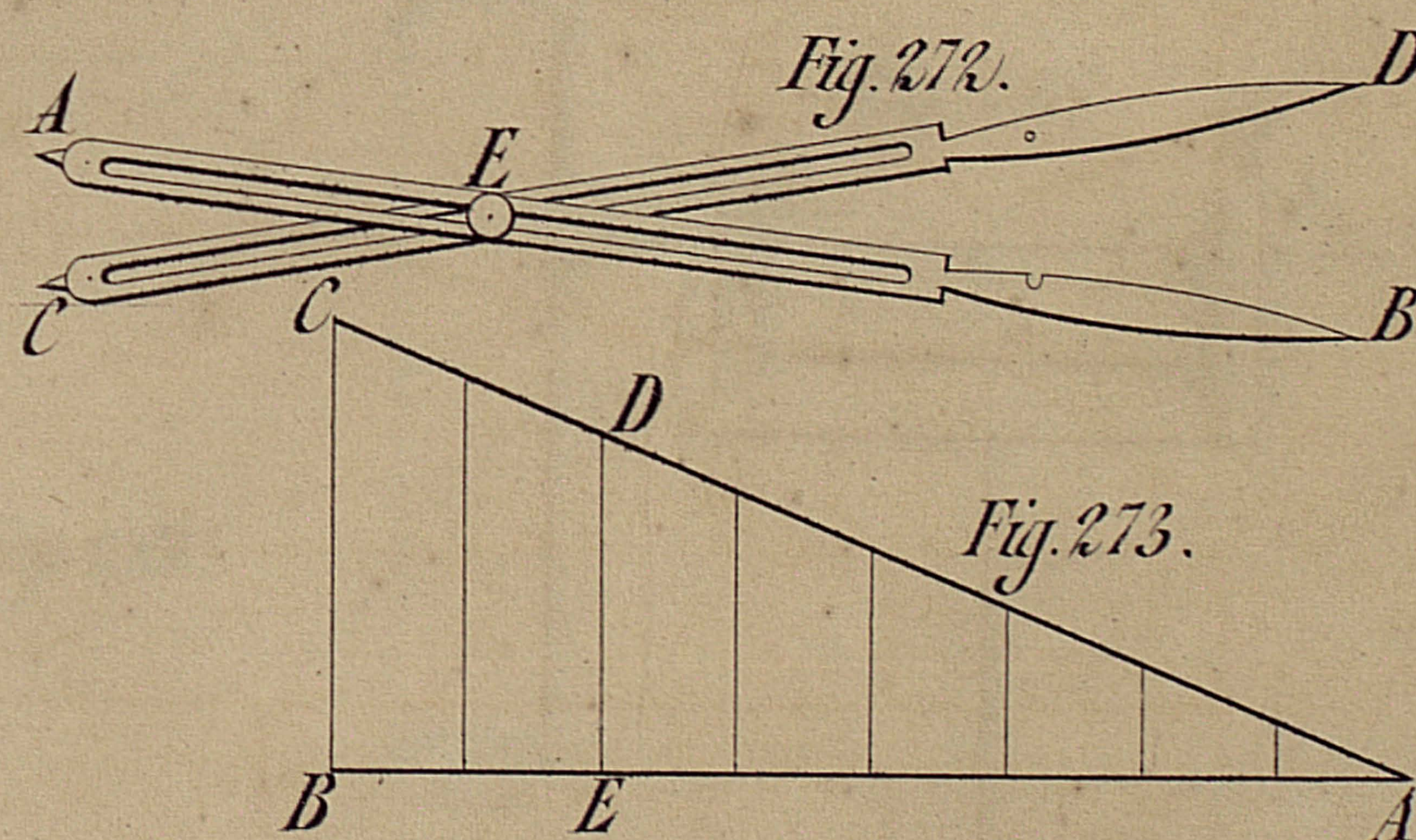
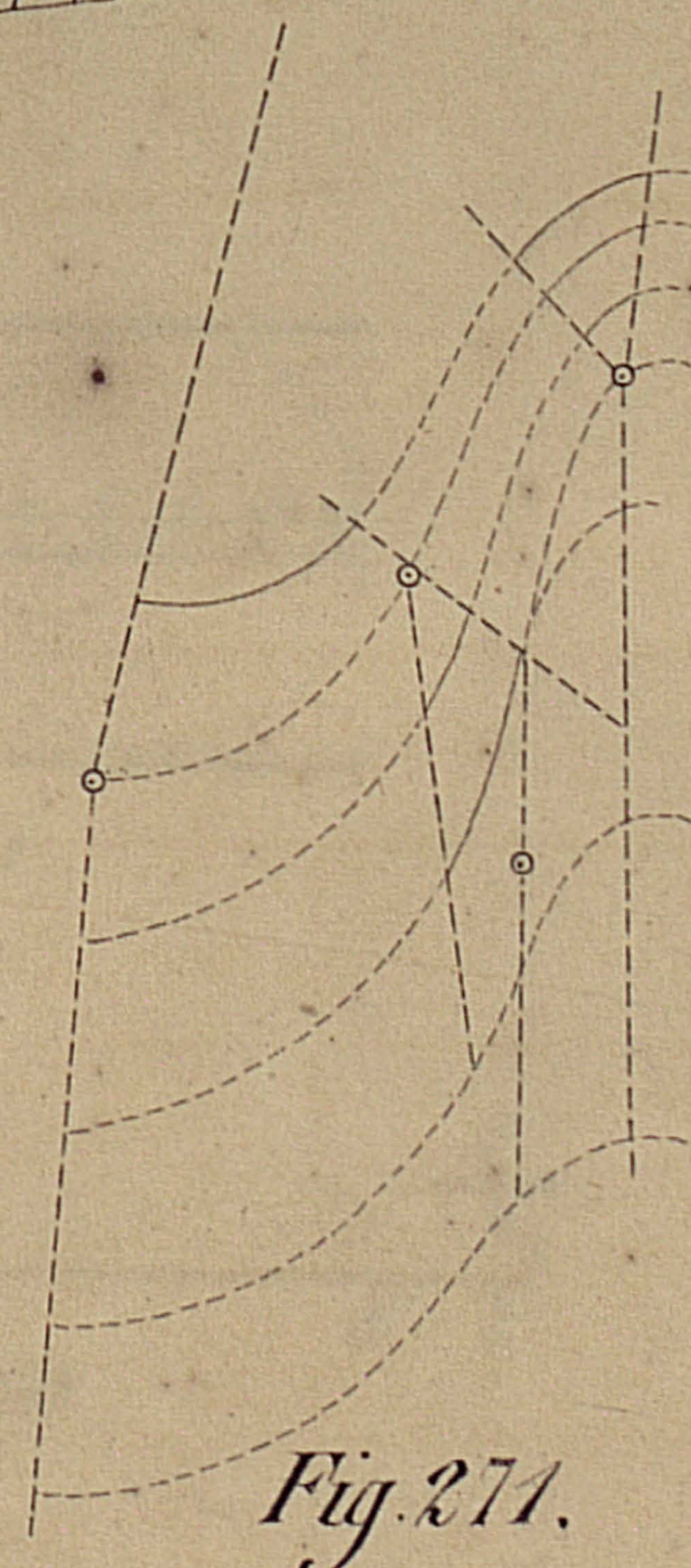
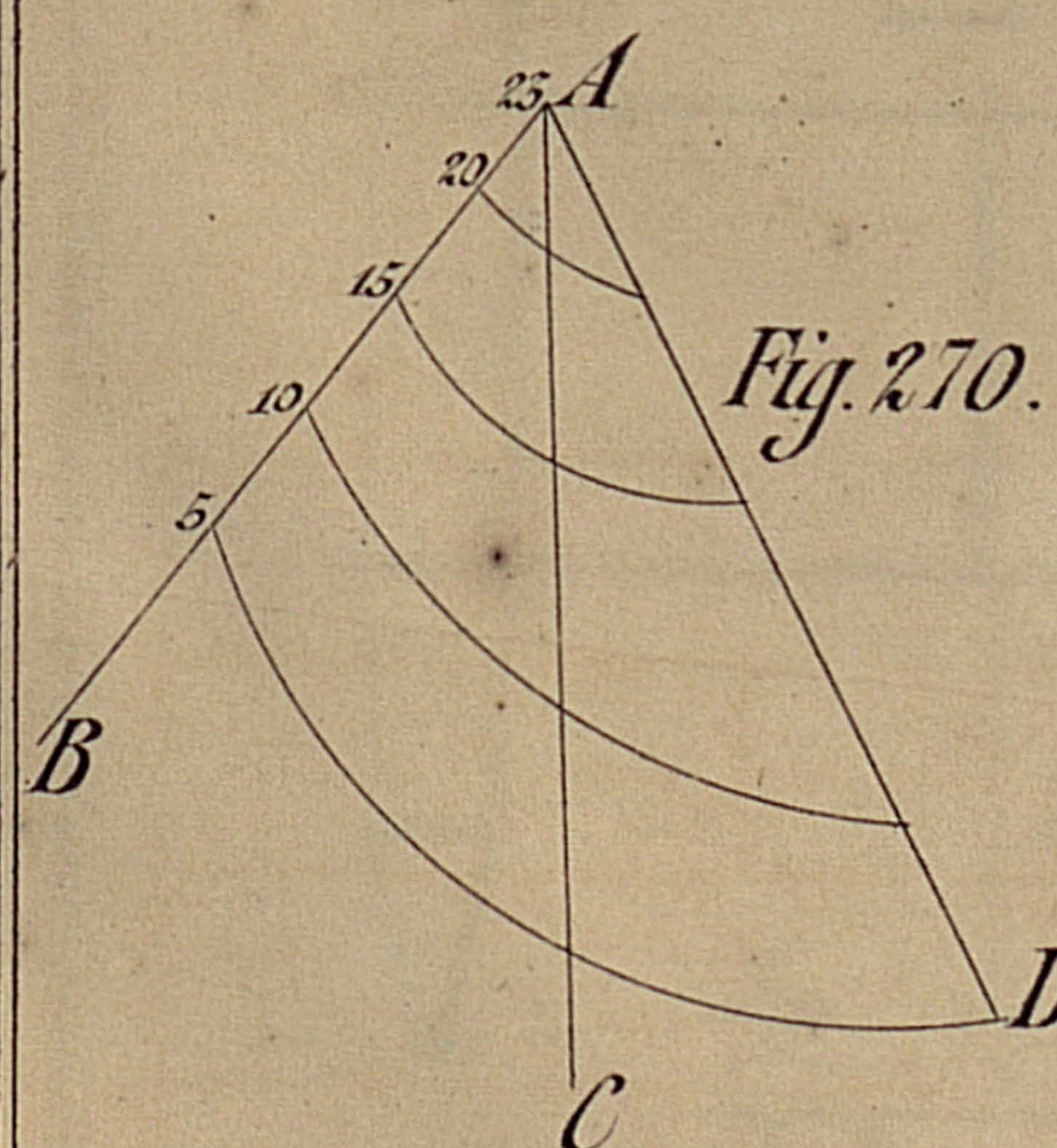
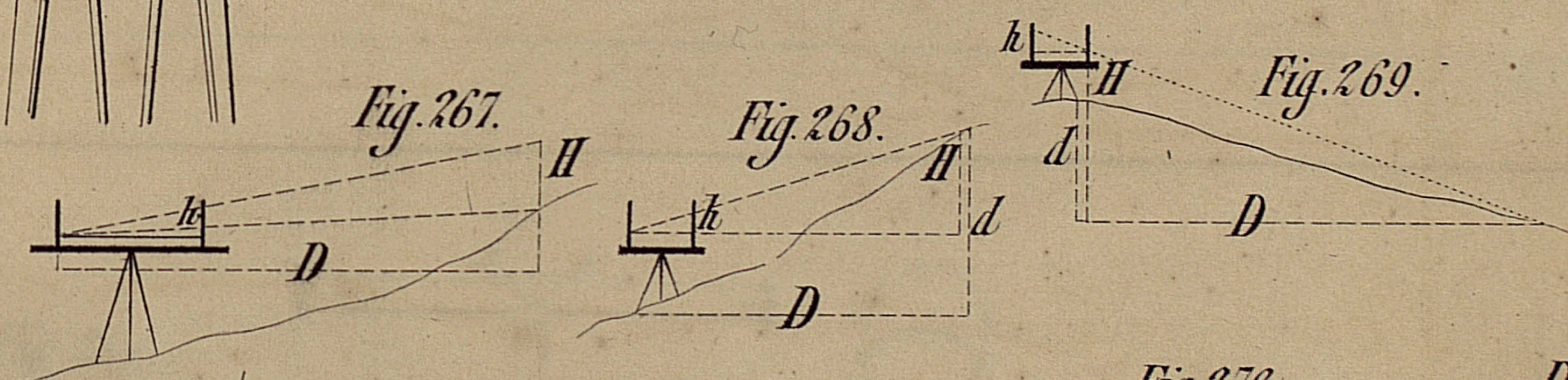
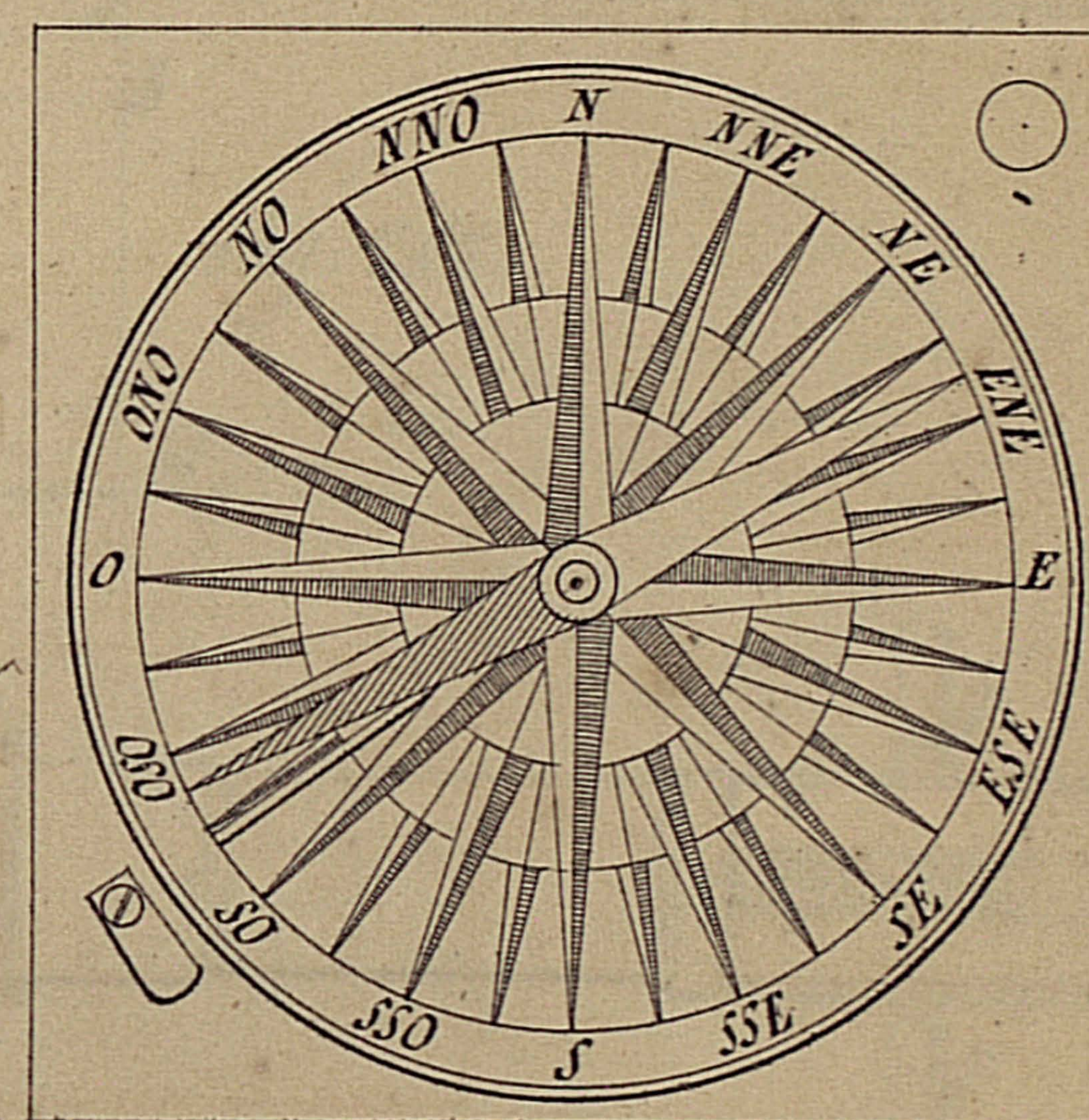
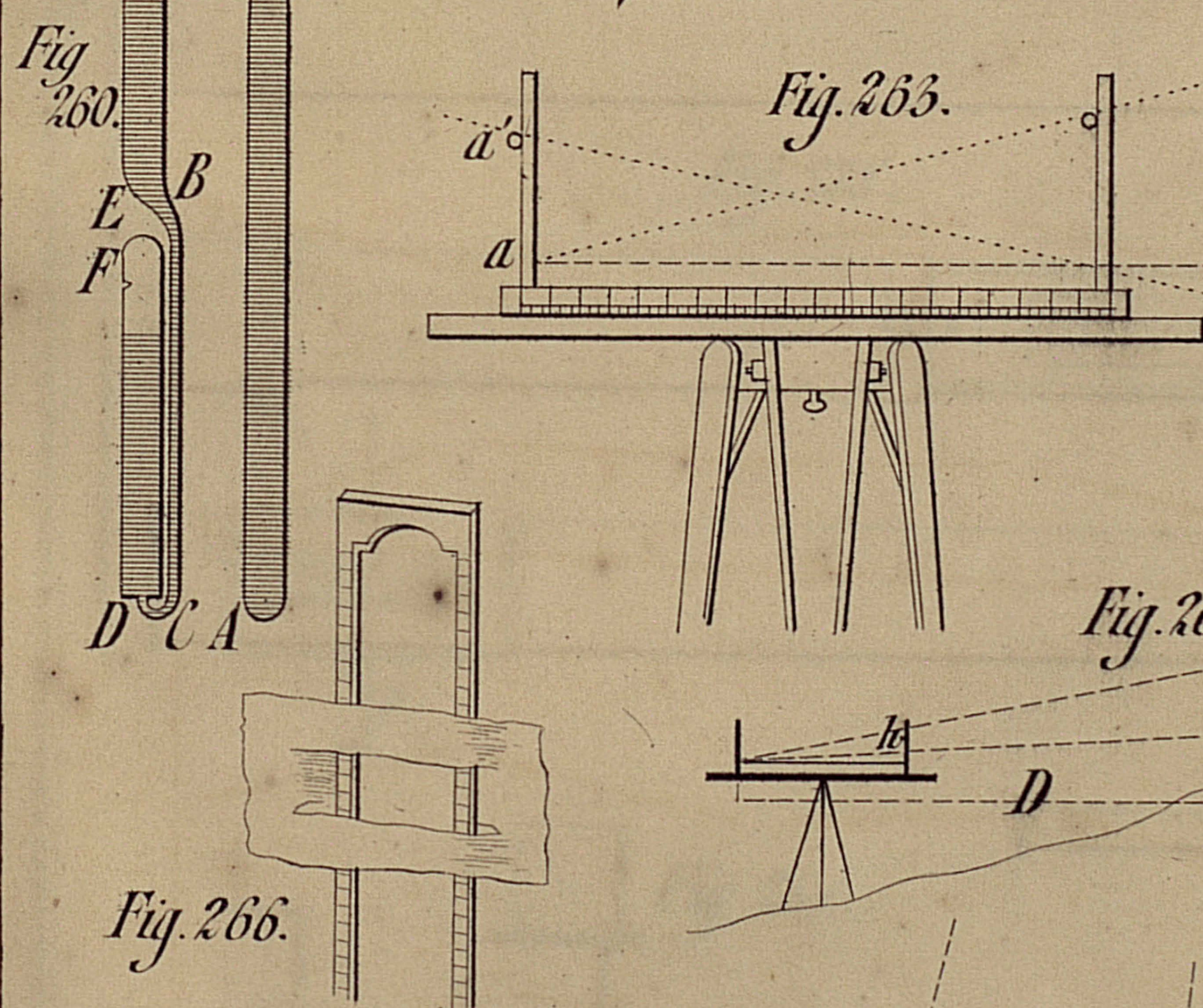
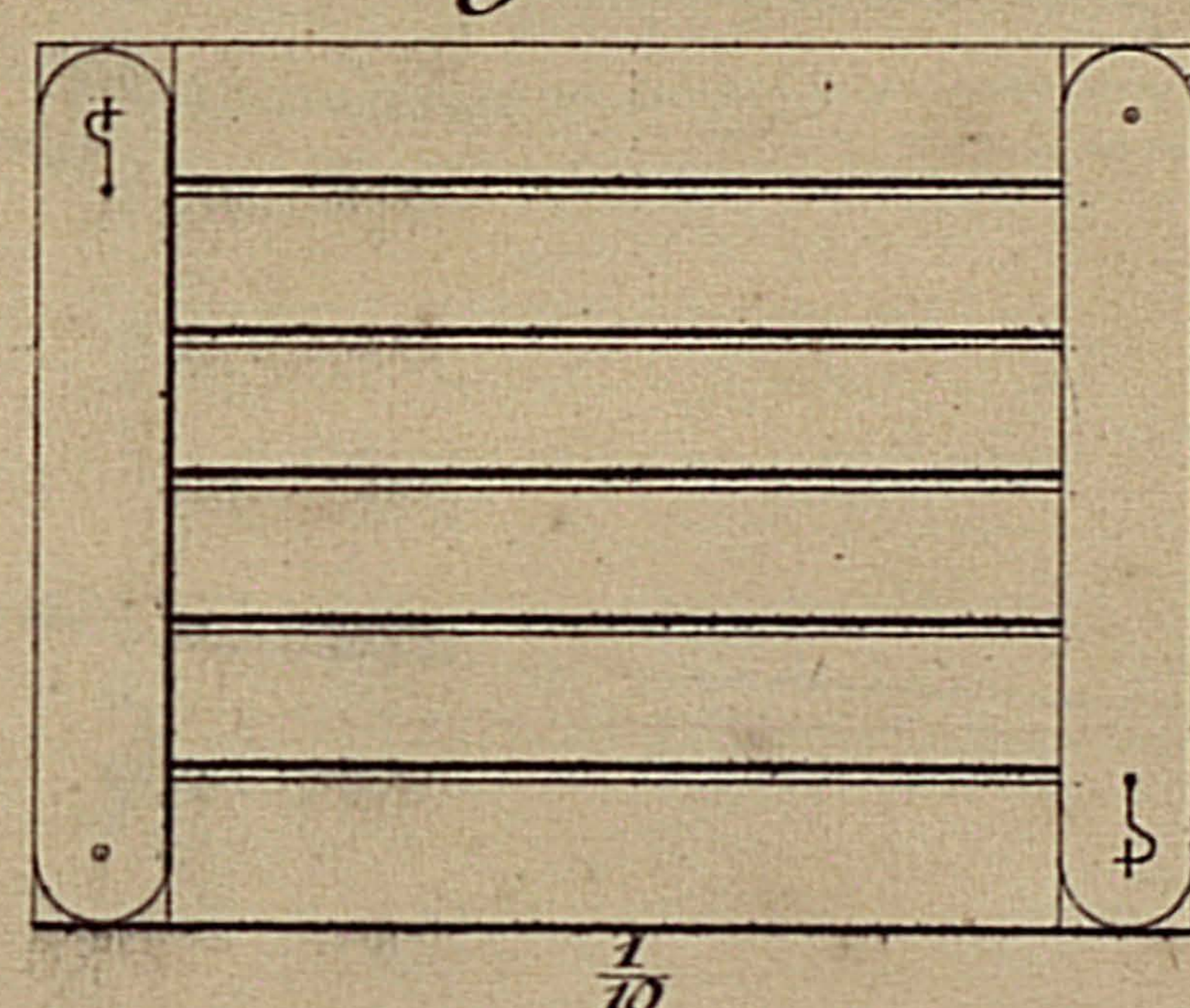
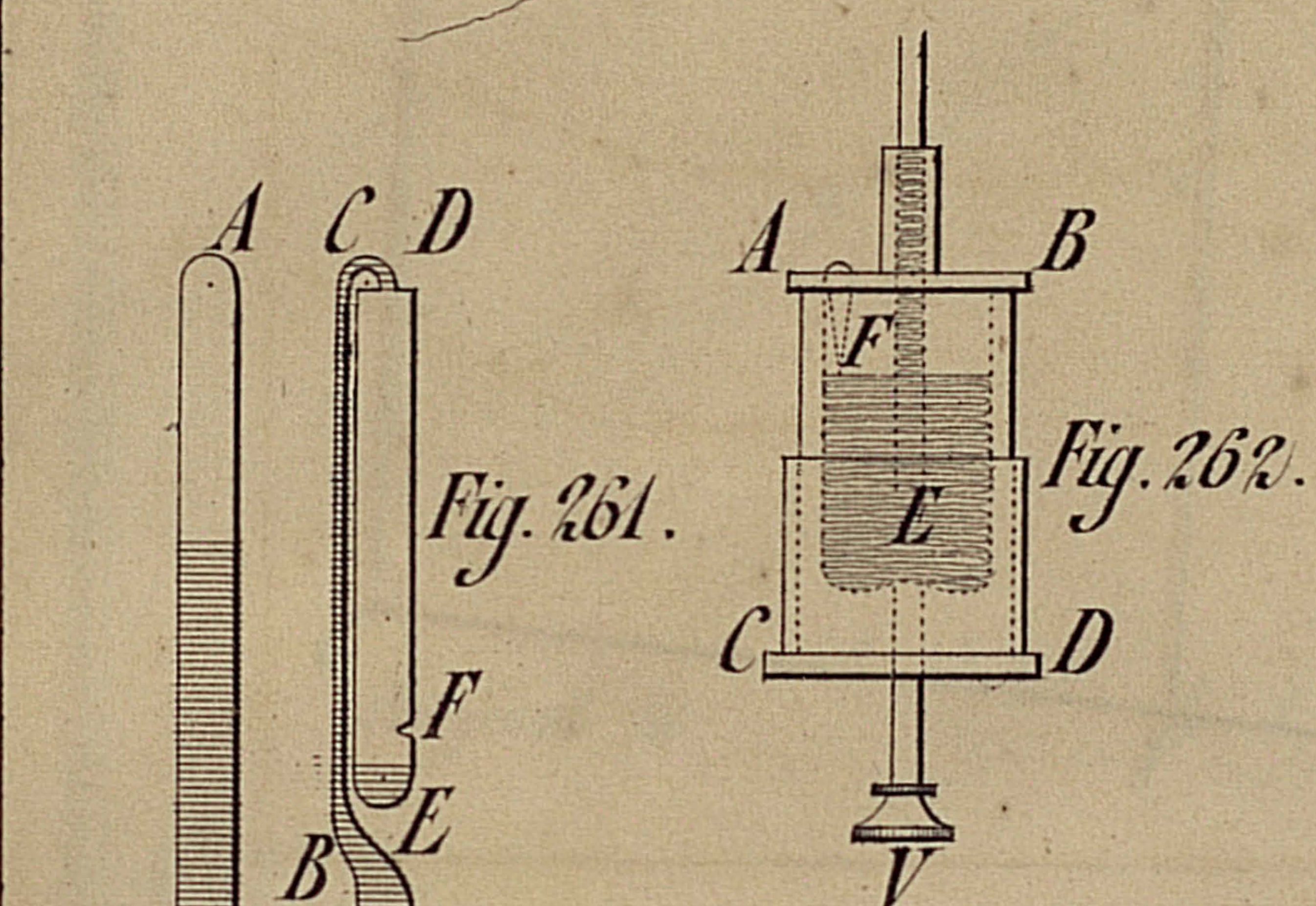
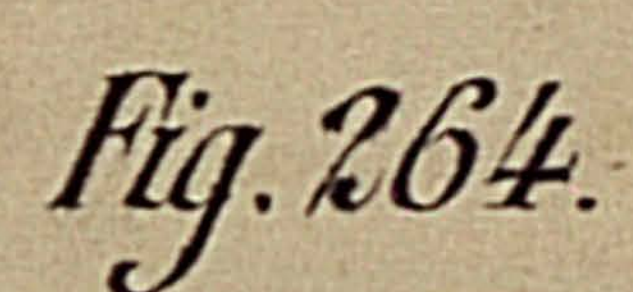
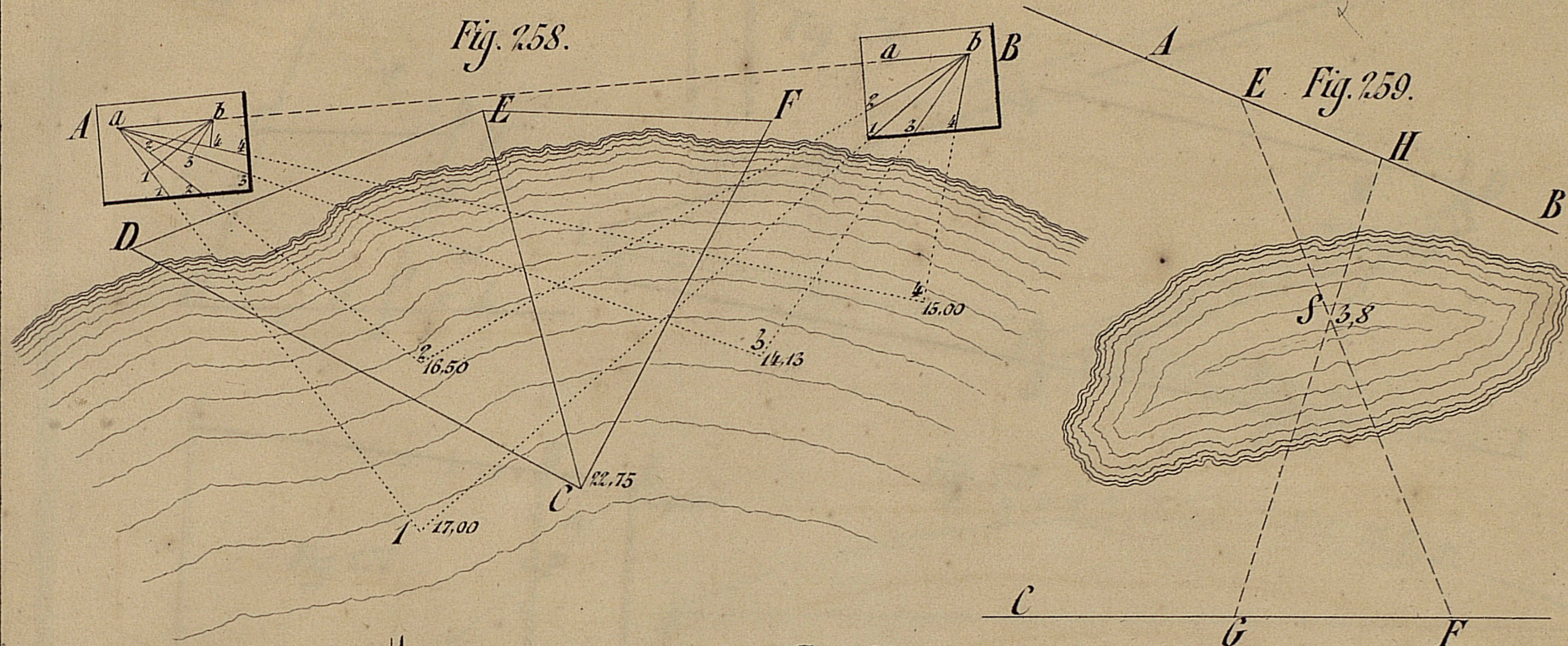
Puntos de Estacion.	Medida de los Angulos Lados.		Cotas de nivel.
17,00	115°	72 v.	17,00
1	98°	70	"
2	89	68	"
3	110°	80	"
4	120°	90	"
5	130°	85	17,00

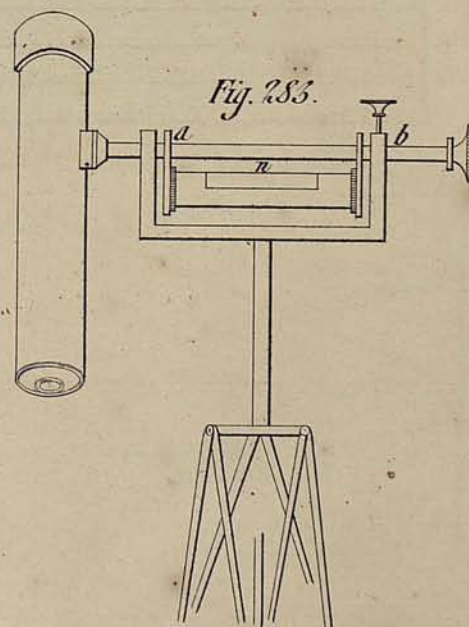
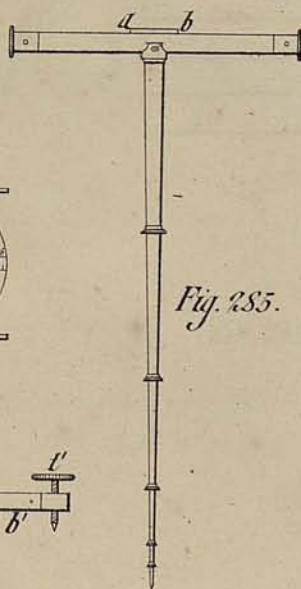
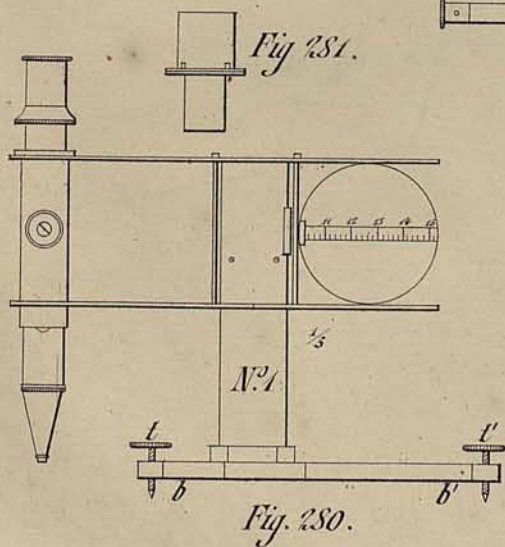
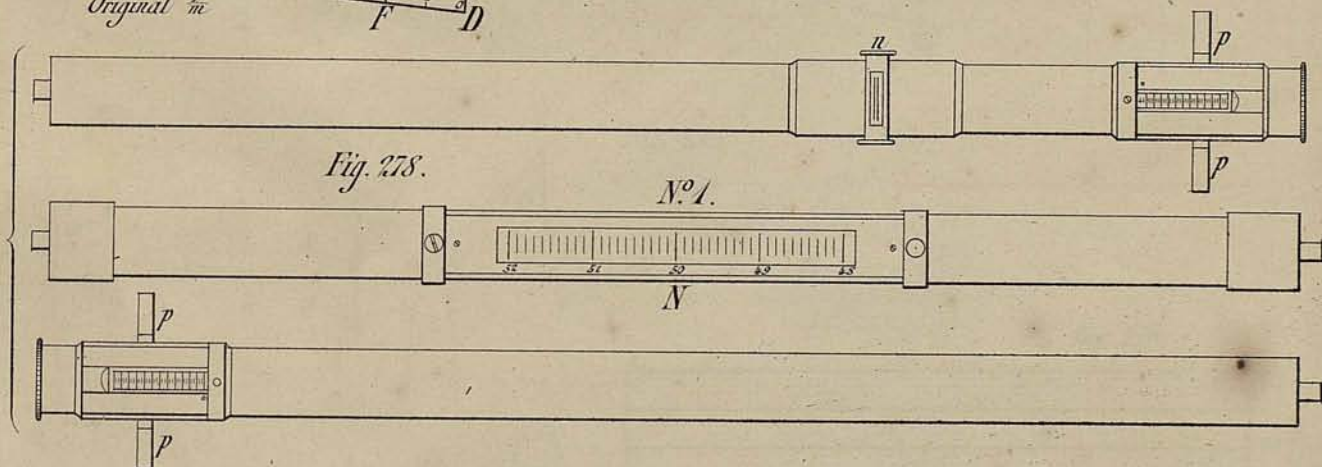
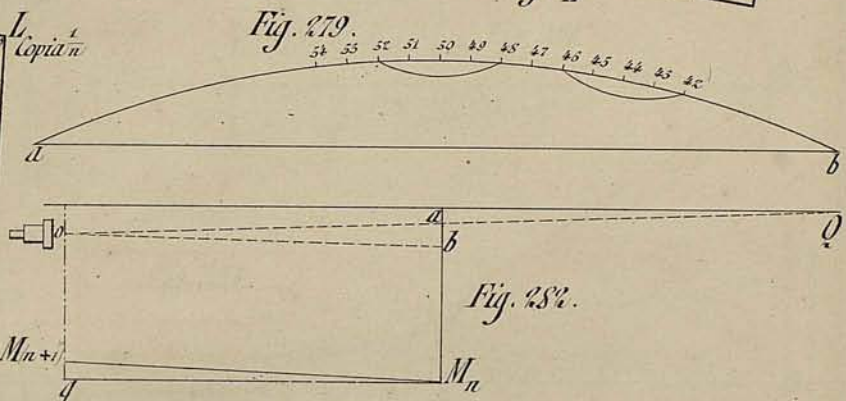
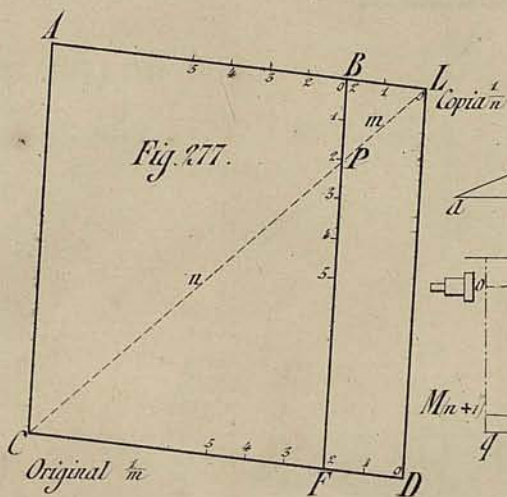
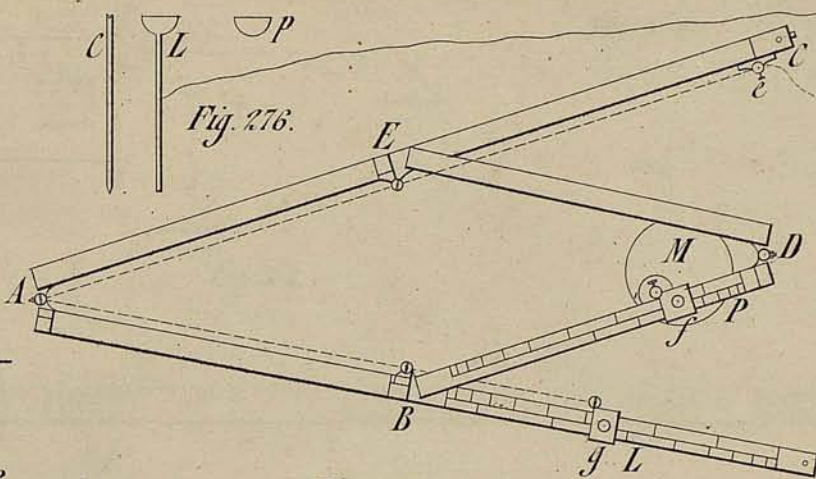
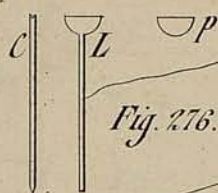
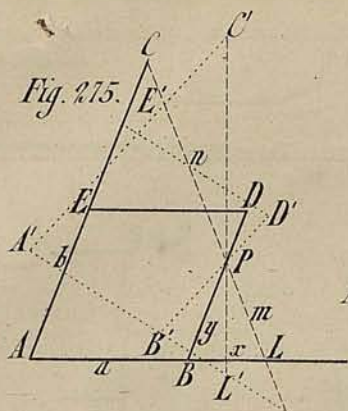
Fig. 249.

Puntos de partida.	Cotas de nivel.	Distancias entre los puntos.	Observa.ª
25	20,15	17 v.	
	20,00	29	
	19,00	15	
	18,00	24	
	17,00	23	
1	16,30	"	
Total		108	
1	16,30	"	
	16,00	"	
	15,00	"	
	14,00	"	
	13,00	"	
2	12,80	"	
Total		"	
2	12,80	"	
	12,00	"	
	11,00	"	
	10,00	"	
	9,00	"	
	8,00	"	
	7,00	"	
6	6,50	"	
Total		"	

Fig. 254.

Bases y puntos de Estac.ª	Puntos observados.	Angulos	Cotas de la horizontal observada.	Observaciones
CD	A	230°	16,00	
	1	227°	"	
	2	218°	"	1ª horiz.ª
	3	209°	"	
	4	201°	"	
1ª estacion C	1	250°	15,00	
	2	"	"	
	3	"	"	2ª horiz.ª
	4	"	"	
Perfil		"	14,00	
	1	"	"	
	2	"	"	3ª horiz.ª
	3	"	"	
	4	"	"	
2ª estacion D	A	"	16,00	
	1	"	"	
	2	"	"	1ª horiz.ª
	3	"	"	
	4	"	"	
Perfil		"	"	
	1	"	15,00	
	2	"	"	
	3	"	"	2ª horiz.ª
	4	"	"	
E.ª	E.ª	E.ª	E.ª	3ª horiz.ª





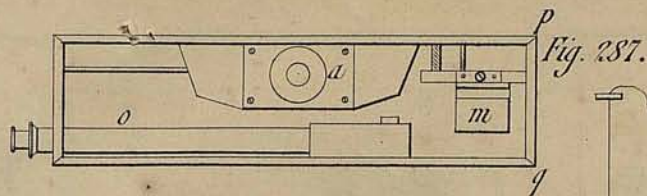


Fig. 287.

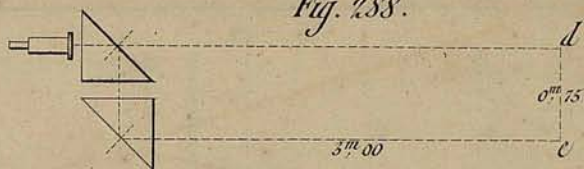


Fig. 288.

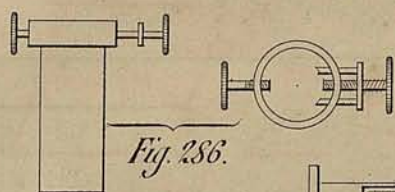


Fig. 286.

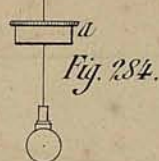


Fig. 284.

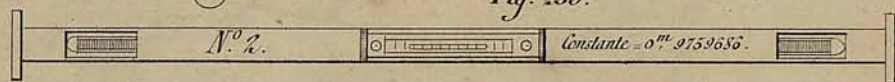


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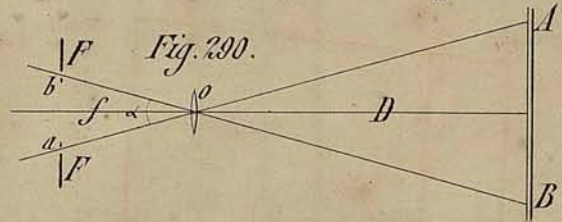


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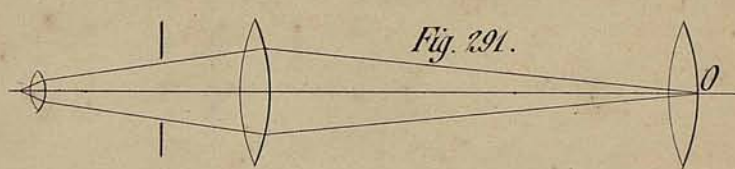


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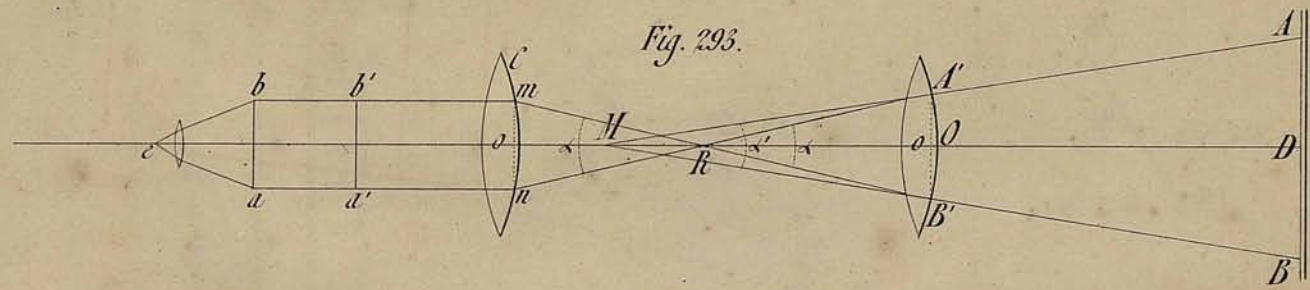


Fig. 293.

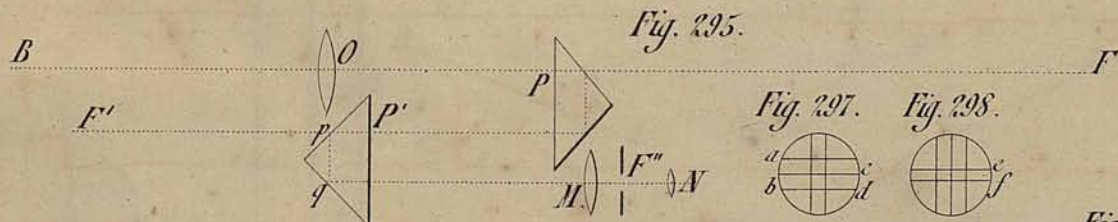


Fig. 295.

Fig. 297.

Fig. 298.



Fig. 296.

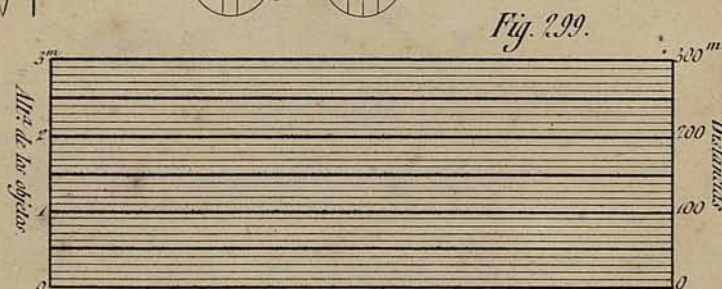
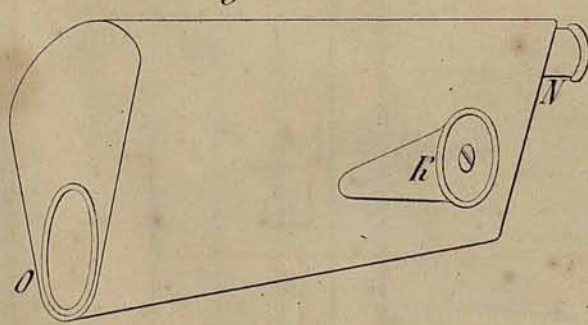


Fig. 299.

Fig. 294.

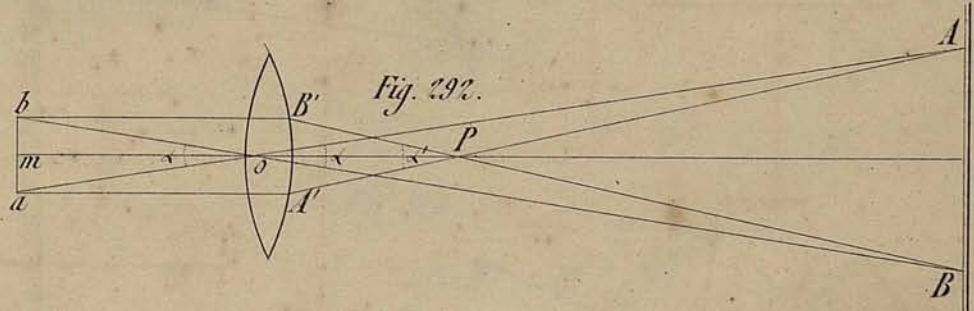
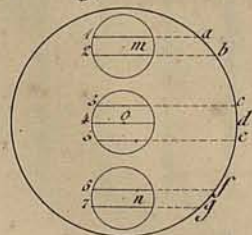


Fig. 292.

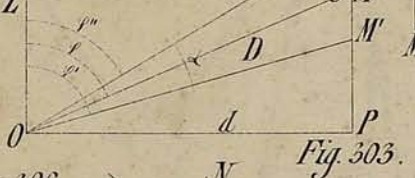
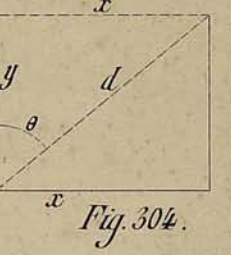
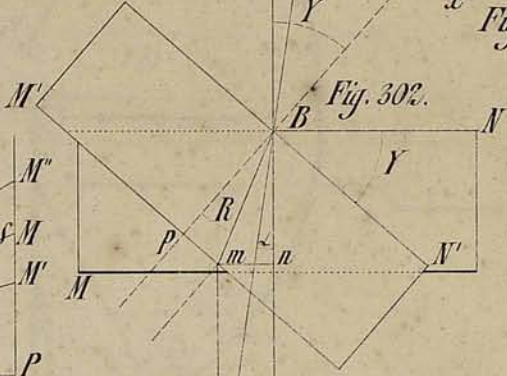
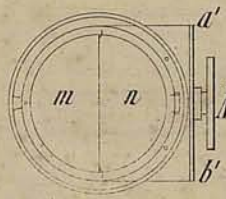
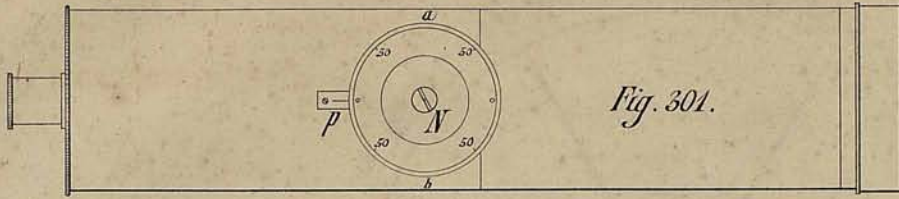


Fig. 306.

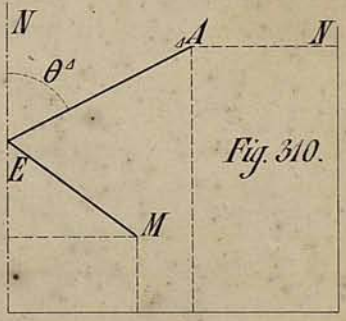
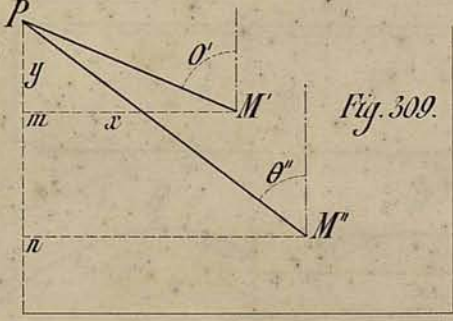
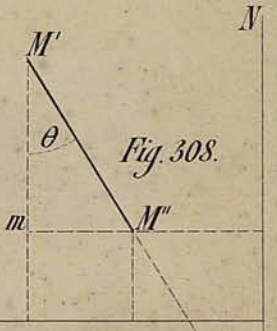
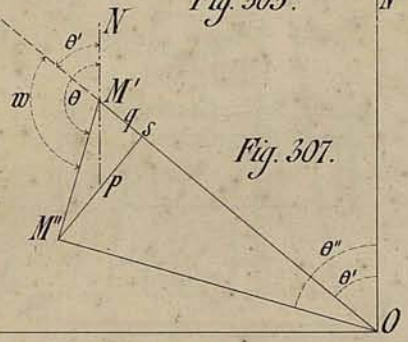


Fig. 305.

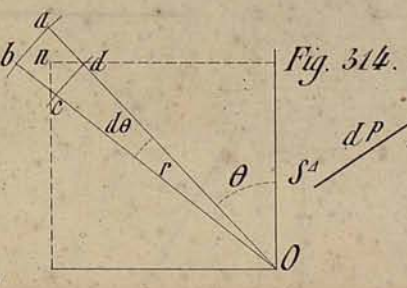
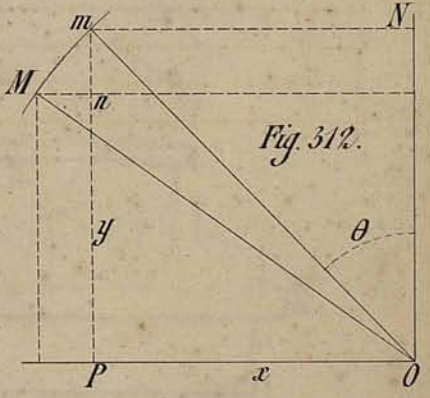
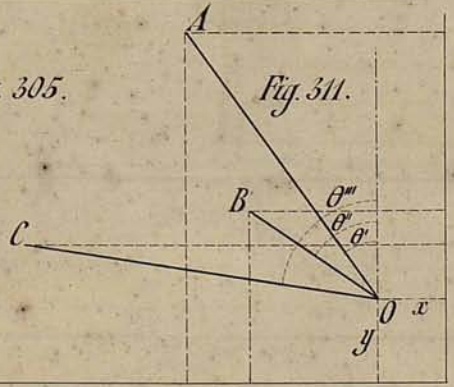
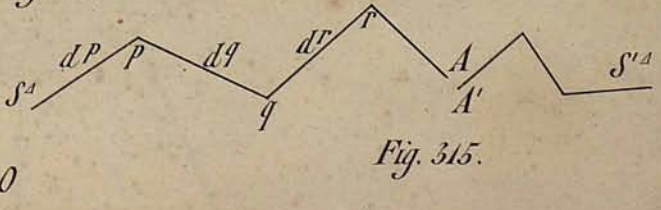


Fig. 314.



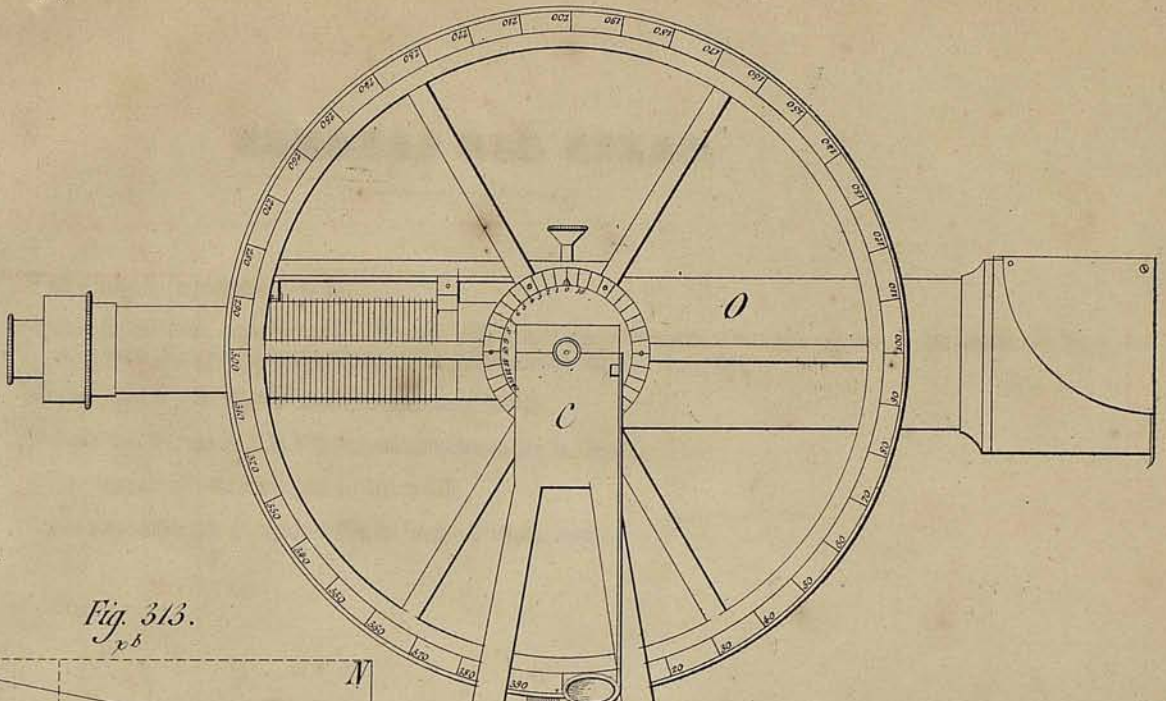
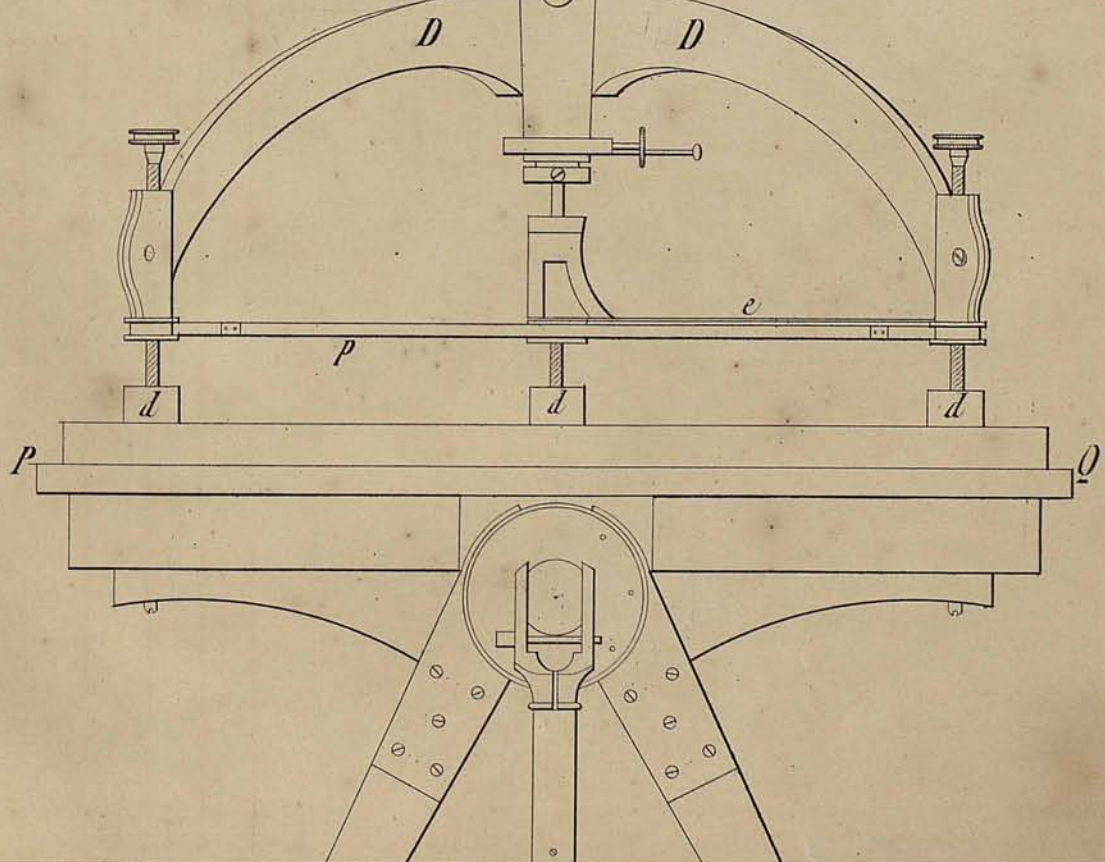
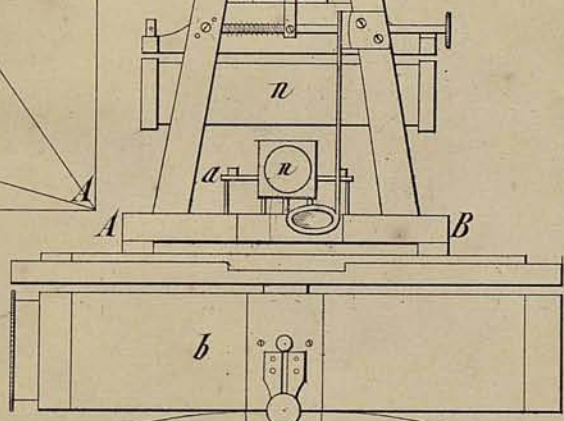
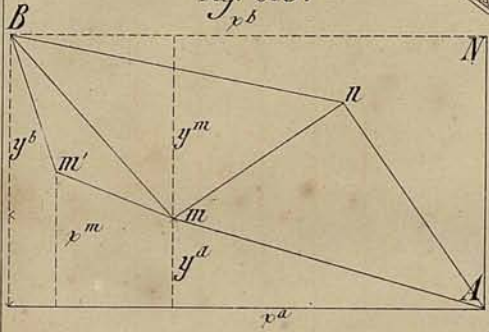


Fig. 313.



ERRATAS DEL ATLAS.

Láminas. Figuras.

- | | | |
|----|-----|--|
| 5 | 22 | Falta una C encima de la A. |
| 8 | 105 | { Esta figura está equivocada. El rayo de luz debe considerarse que entra en la lente en M y sale por M': y el punto O es el de encuentro de CC' con MM' |
| 12 | 142 | De las dos F', la mas á la derecha debe ser F. |
| 15 | 185 | Faltan las letras A y B á la circunferencia de la figura. |
| 25 | 259 | Falta una D al extremo de la línea CF. |
| 27 | 295 | La o colocada en el centro de la lente C debe ser c. |



ESTADOS UNIDOS

CANTIDAD	VALOR	DESCUENTO
El día 1 de Enero de 1900	100	0
El día 1 de Febrero de 1900	100	0
El día 1 de Marzo de 1900	100	0
El día 1 de Abril de 1900	100	0
El día 1 de Mayo de 1900	100	0
El día 1 de Junio de 1900	100	0
El día 1 de Julio de 1900	100	0