

The background of the slide features a faint, dark blue-tinted image of a camera obscura. On the right side, a tall, dark, conical structure, likely a camera obscura box or a similar optical device, is visible. On the left side, there is a small, rectangular wooden box with a handle, possibly a component of the setup or a related historical artifact. The overall scene is dimly lit, emphasizing the historical and scientific nature of the topic.

History of optical devices:

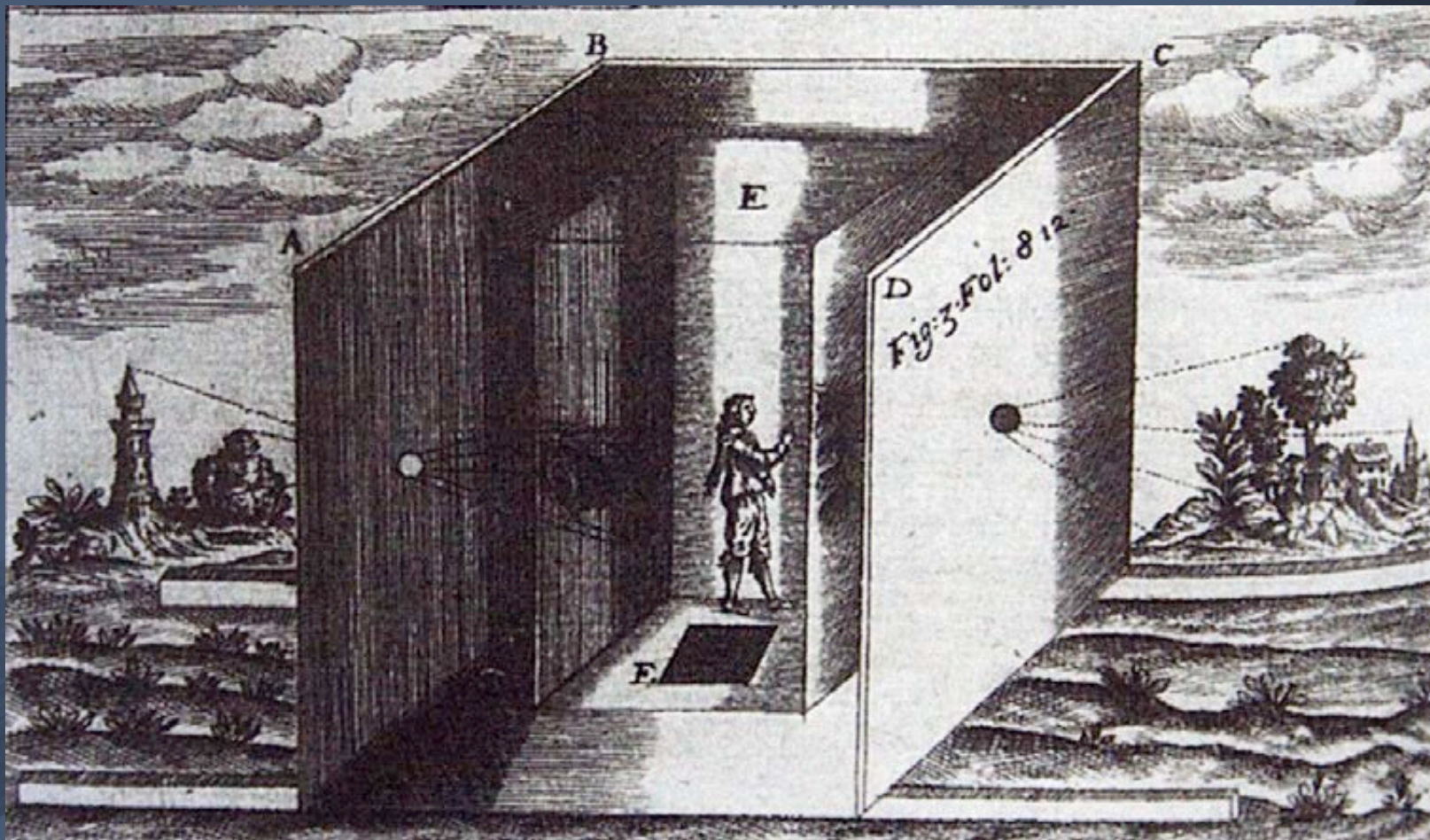
The camera obscura

Professor:
José Vicente Martín Martínez

Universidad Miguel Hernández de Elche

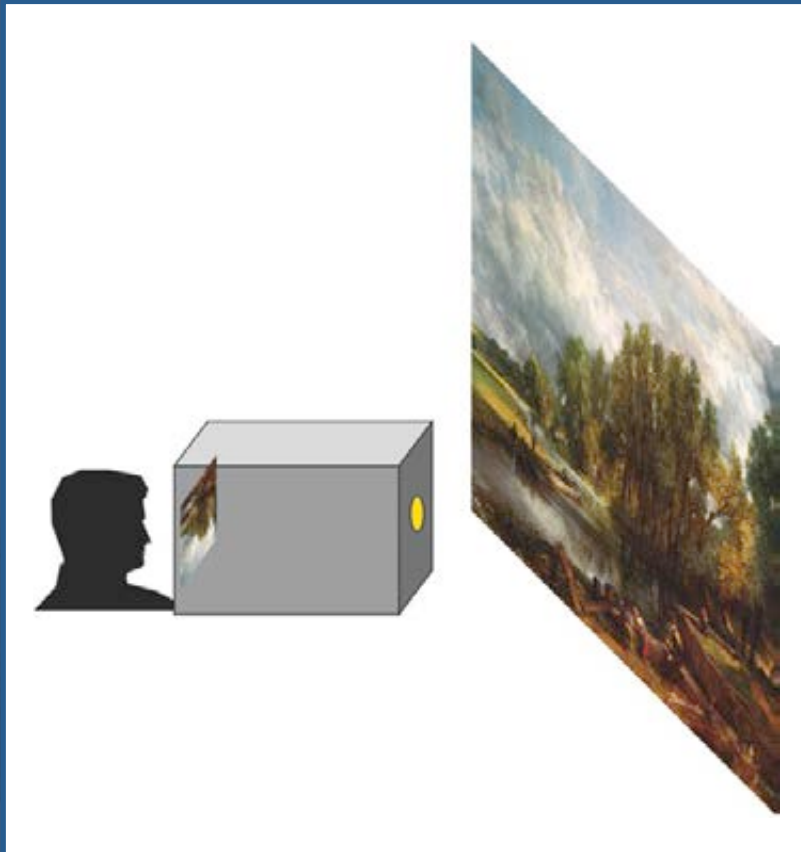


Replica of a portable camera obscura

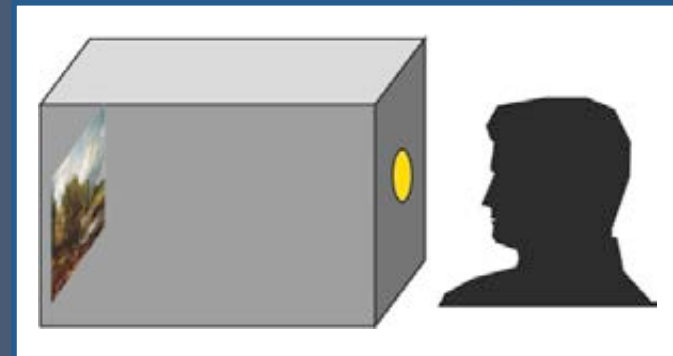


Athanasius Kirchner, *Camera obscura in Ars Magna Lvcis Et Vmbrae*, 1649.

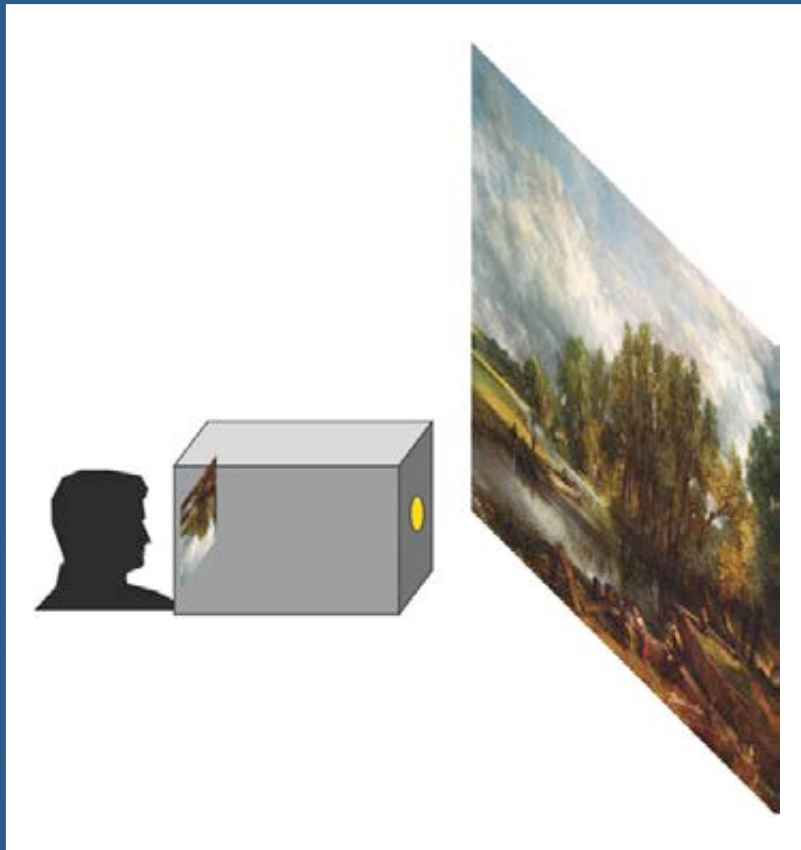
A. SUBJECT IN FRONT



B. IMAGE INSIDE

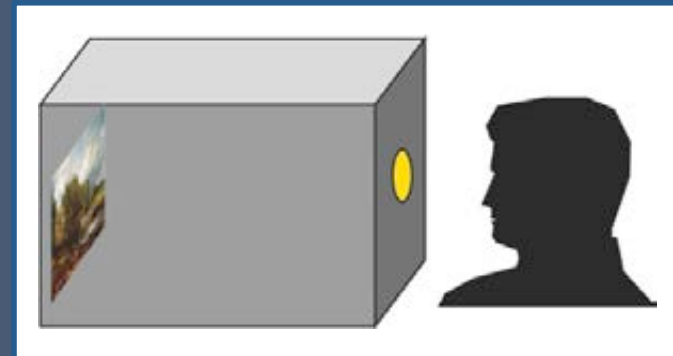


A. SUBJECT IN FRONT



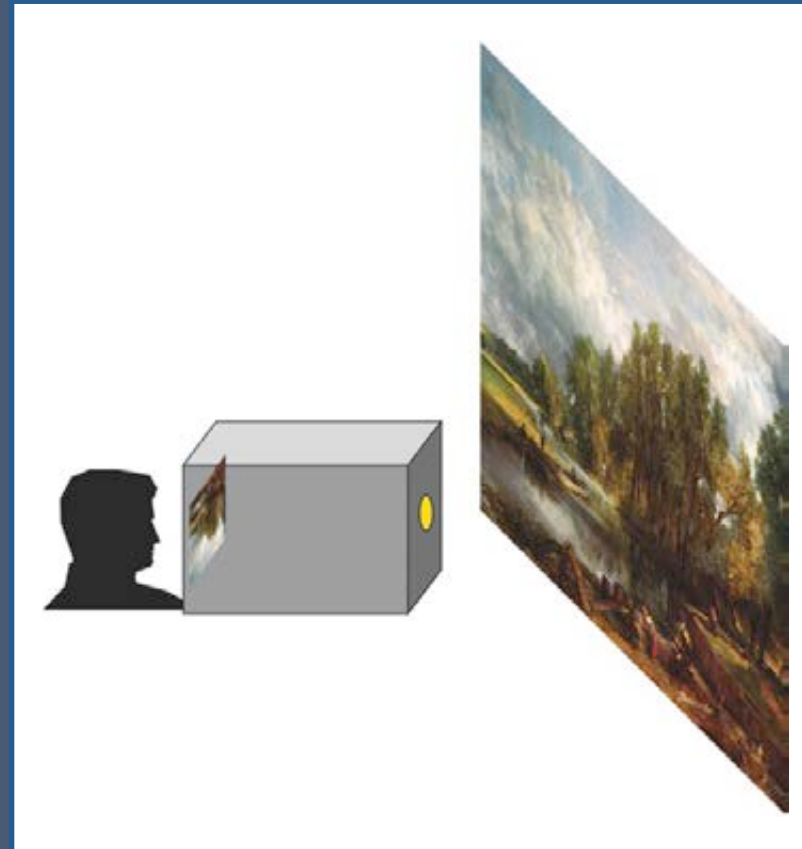
MACHINES OF REPRESENTATION

B. IMAGE INSIDE



MACHINES OF VISUALIZATION

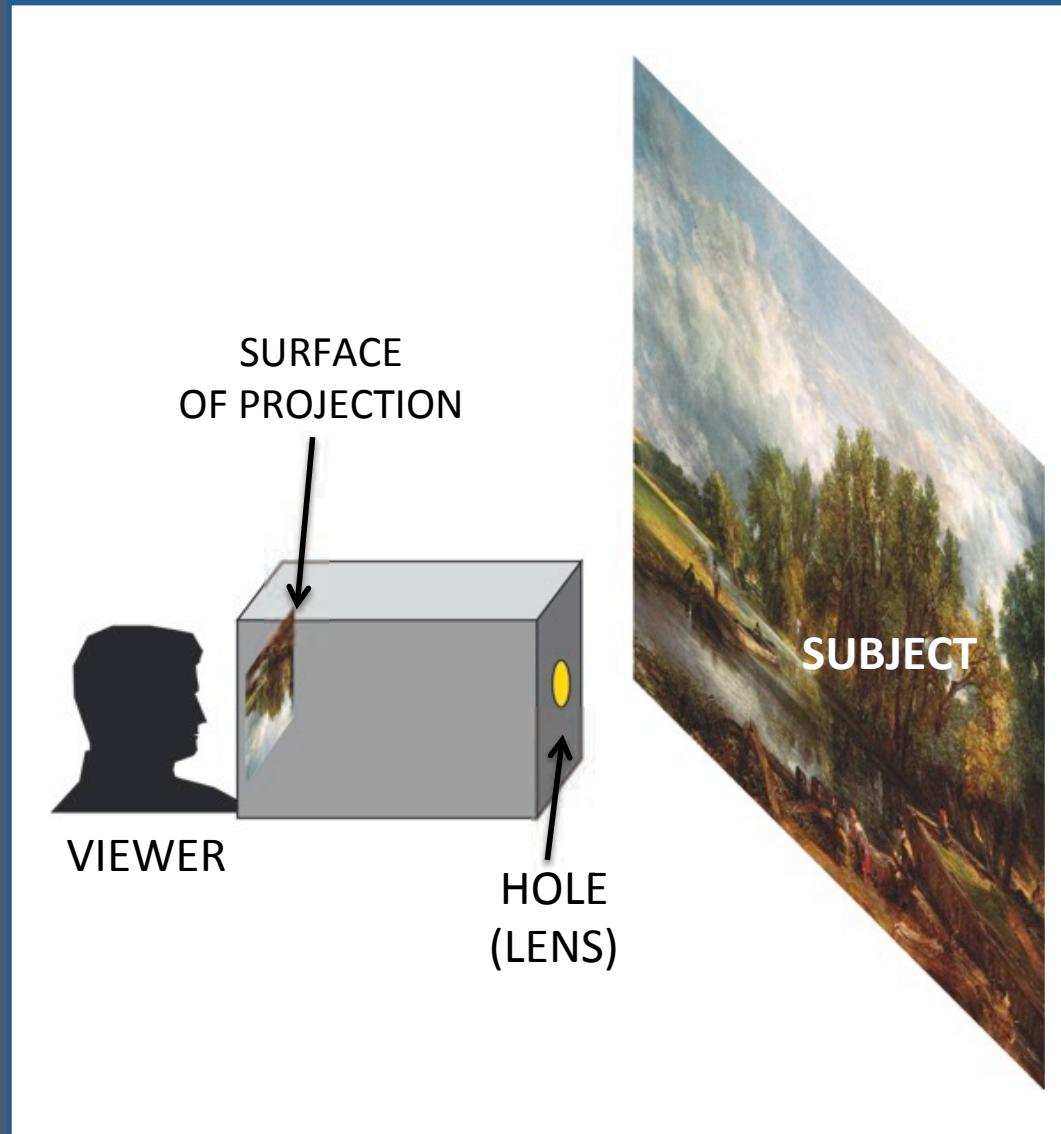
A. SUBJECT IN FRONT



BASED ON THIS STRUCTURE:

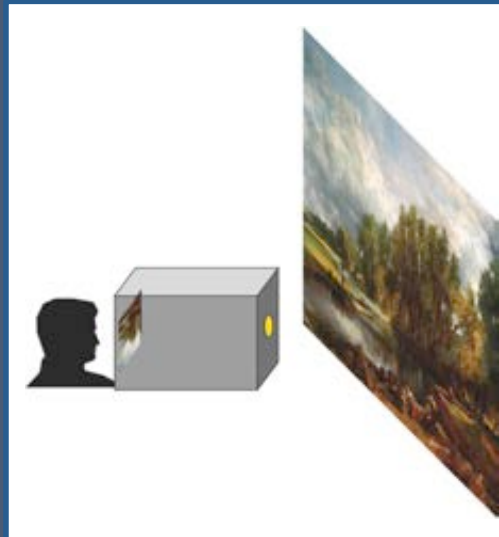
VIEWER > SURFACE OF PROJECTION > (OPTIONAL: 45° MIRROR) > HOLE (LENS) > SUBJECT

A. SUBJECT IN FRONT

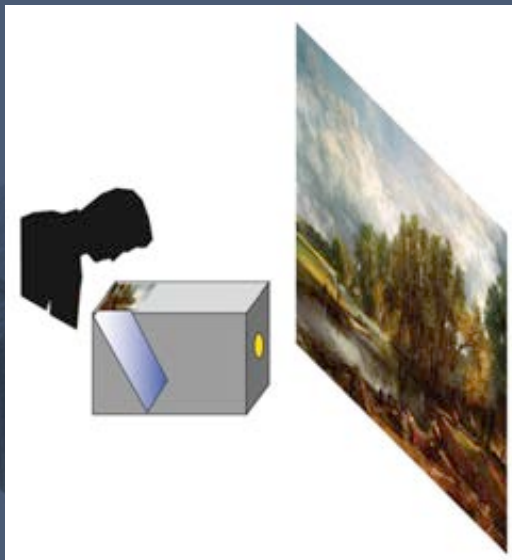


A. SUBJECT IN FRONT

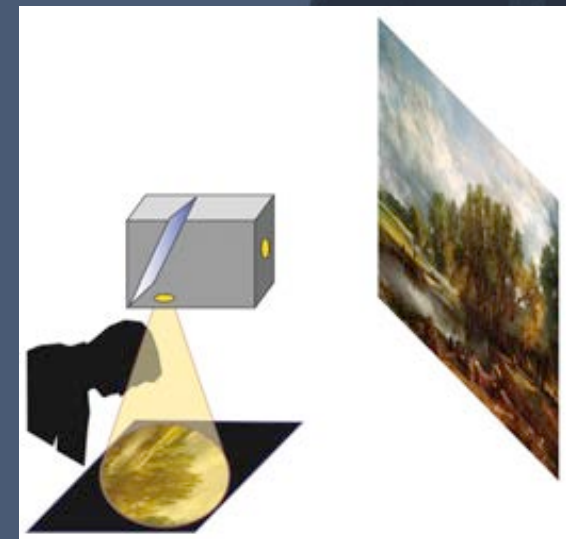
A. SUBJECT IN FRONT



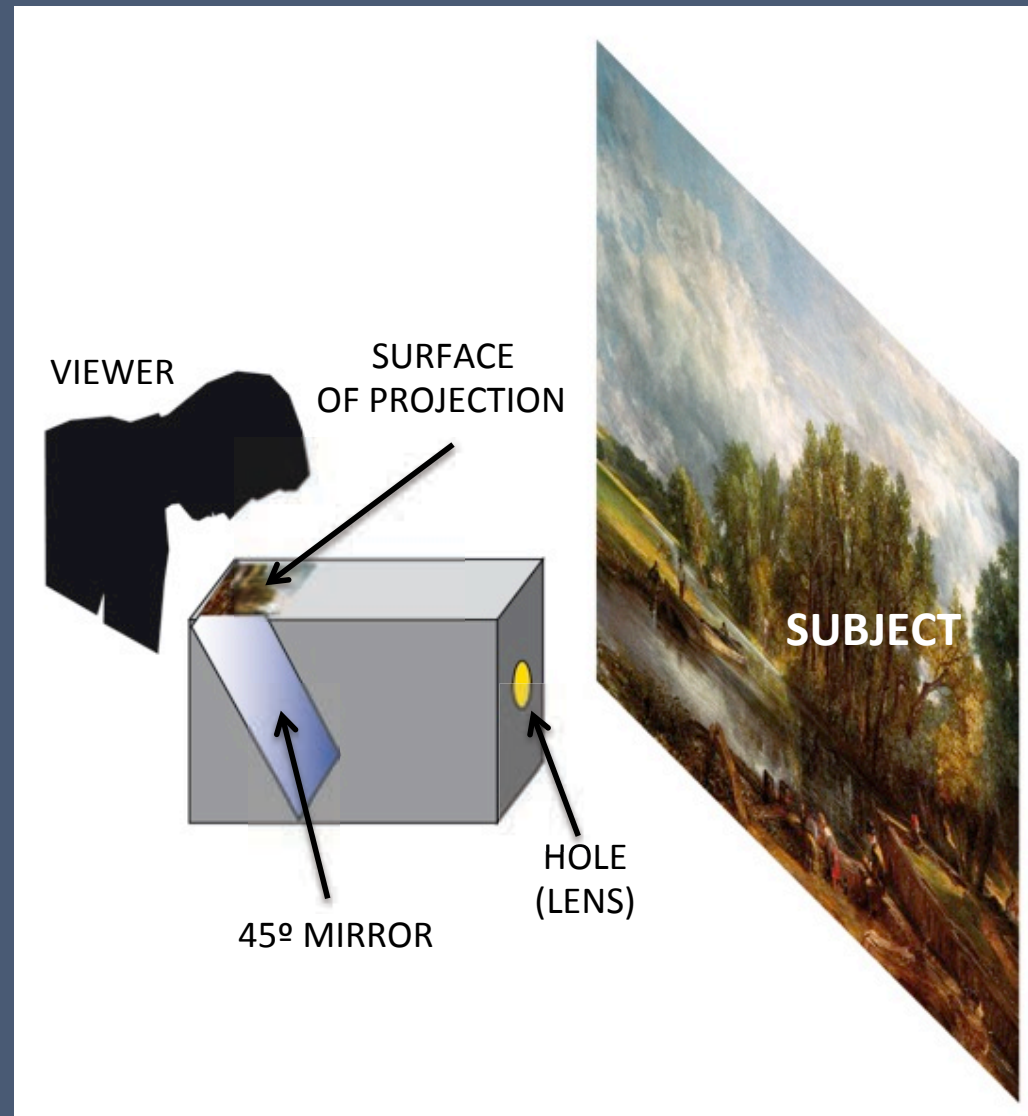
A1. IMAGE BEHIND



A2. IMAGE OVER

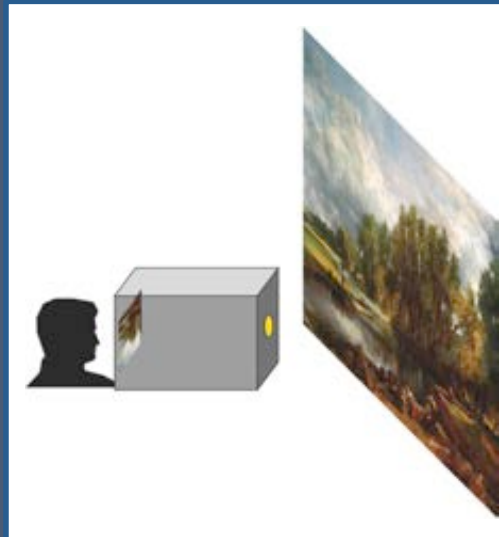


A1. IMAGE BEHIND

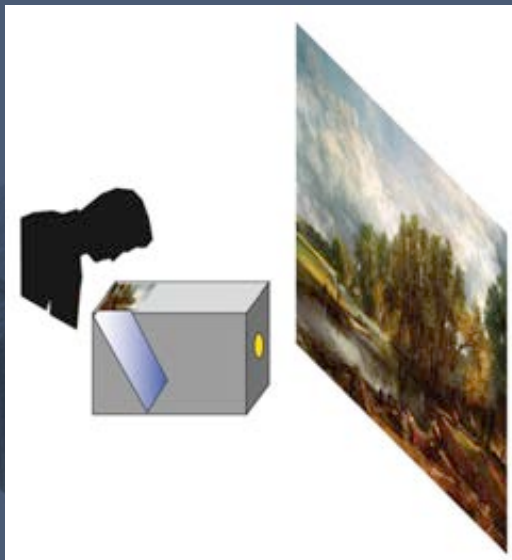


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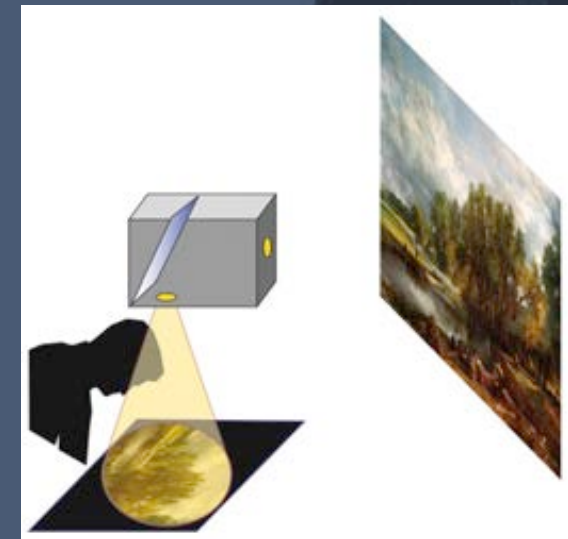
A. SUBJECT IN FRONT



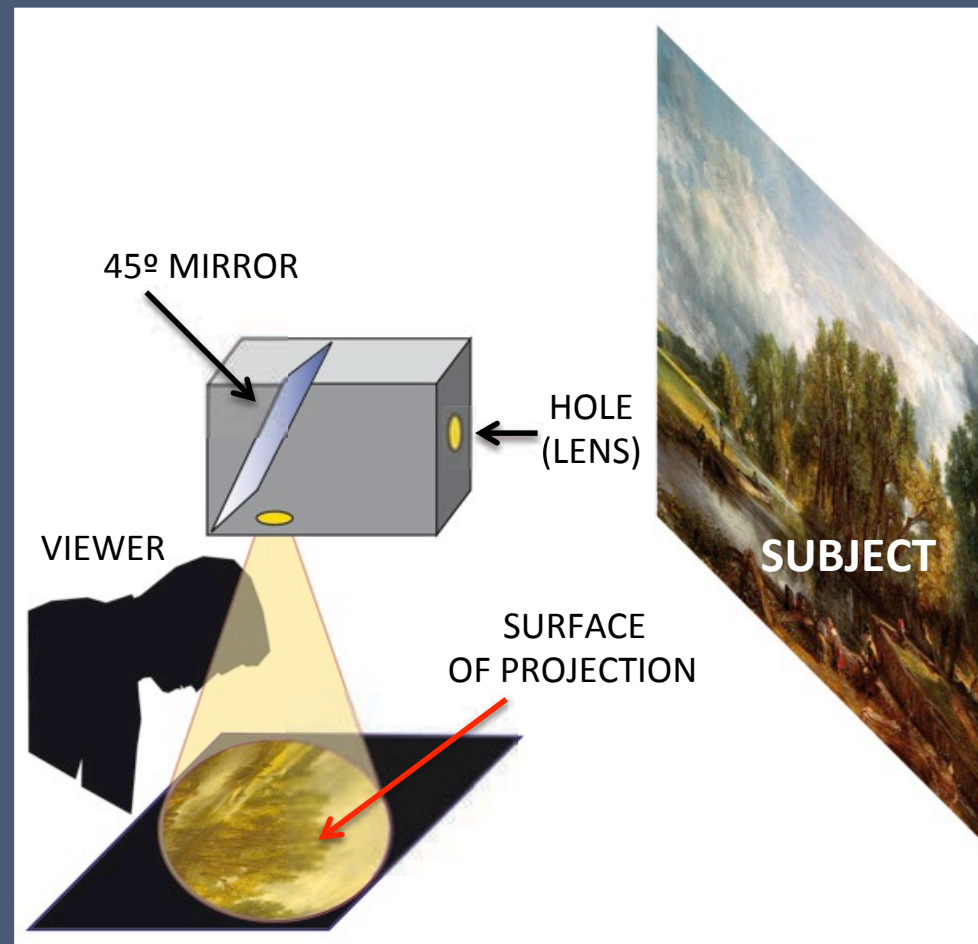
A1. IMAGE BEHIND



A2. IMAGE OVER

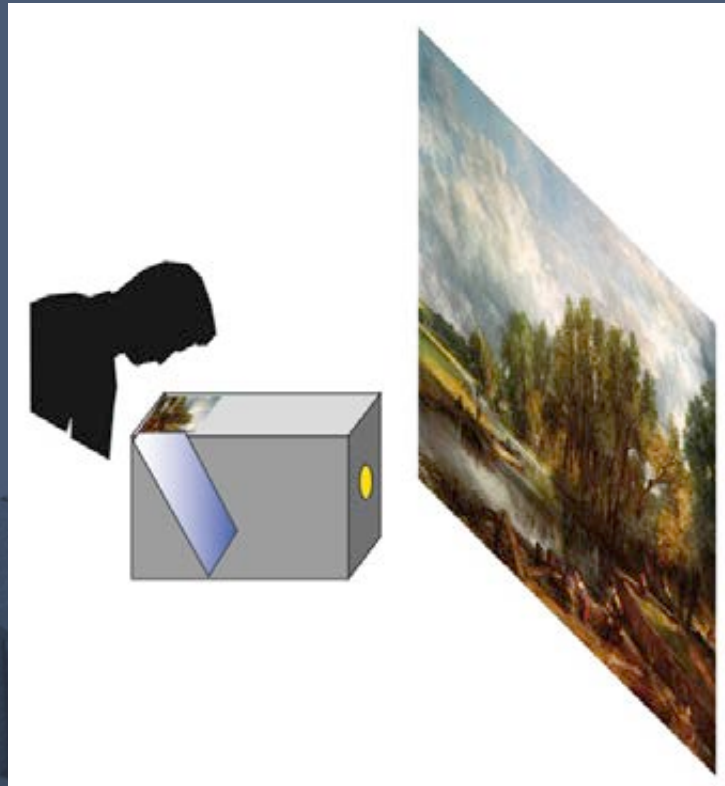


A2. IMAGE OVER

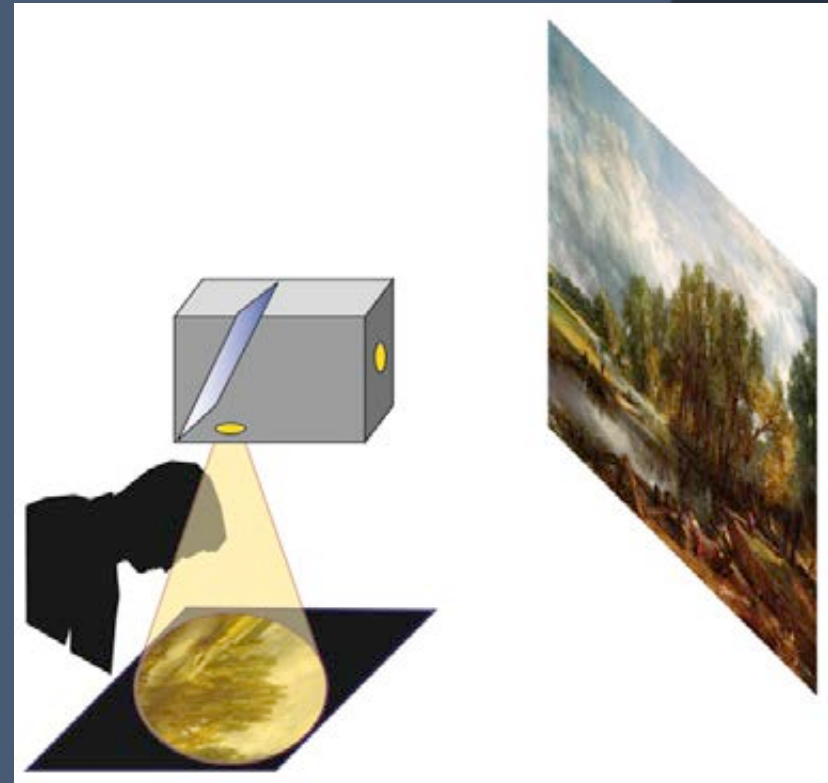


A. MOTIF IN FRONT

A1. IMAGE BEHIND



A2. IMAGE OVER



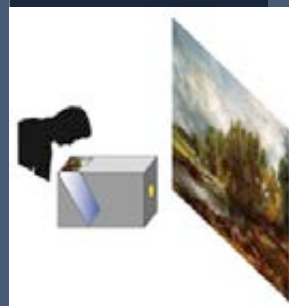


Camera obscura in the film
Girl with a pearl earring



Tent camera in Costa, engraving 19th C.

History of optical devices: The camera obscura

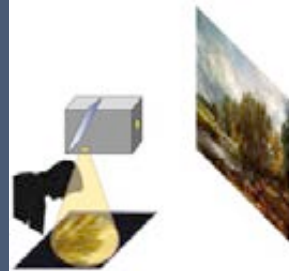


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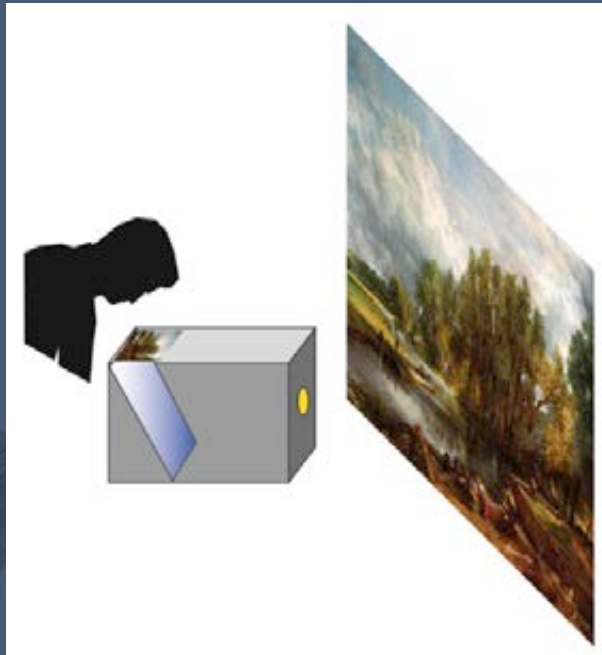
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A1. IMAGE BEHIND



Camera obscura XVIII Century



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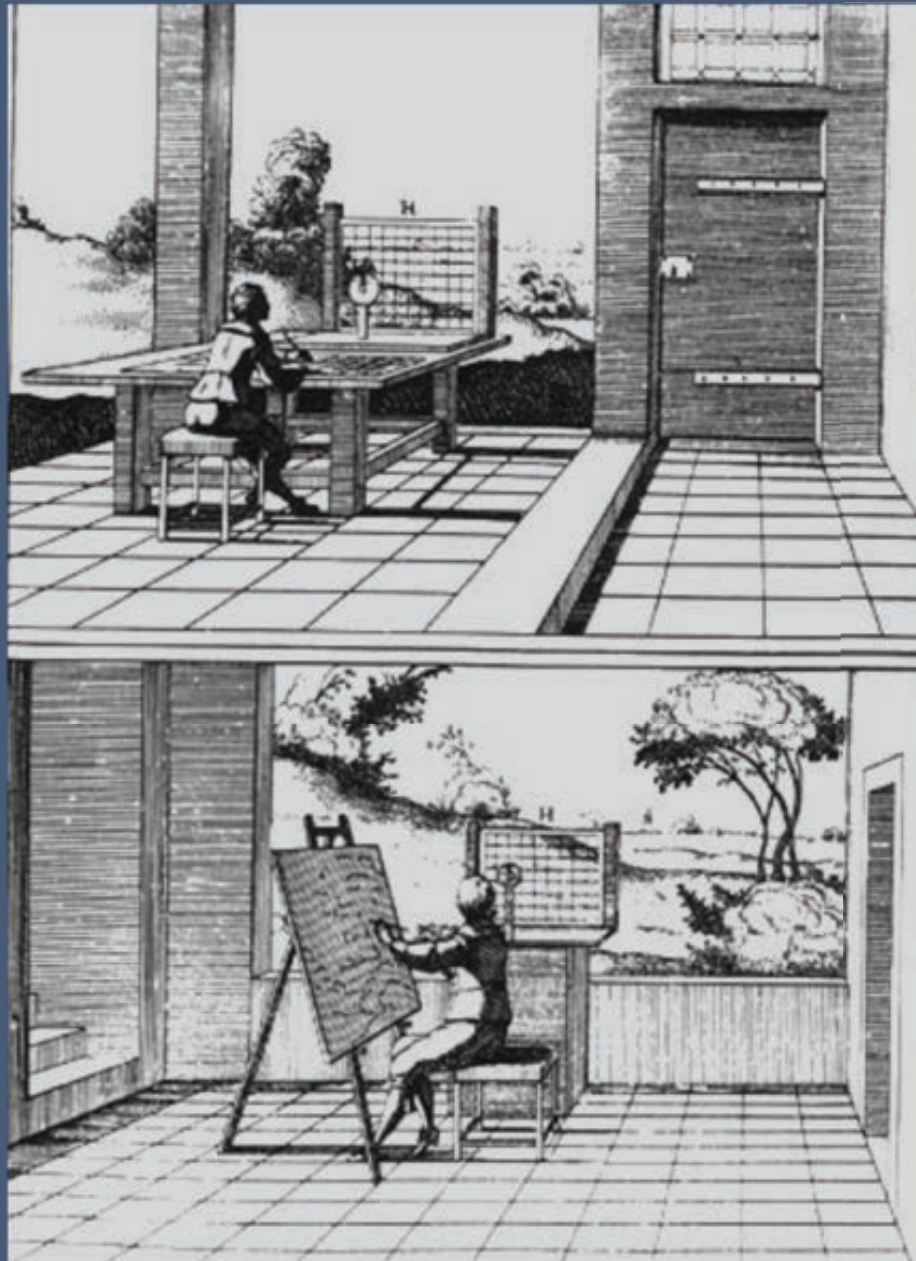


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Use of the Alberti's veil,
Jean Debreuil,
Le perspective pratique, 1642



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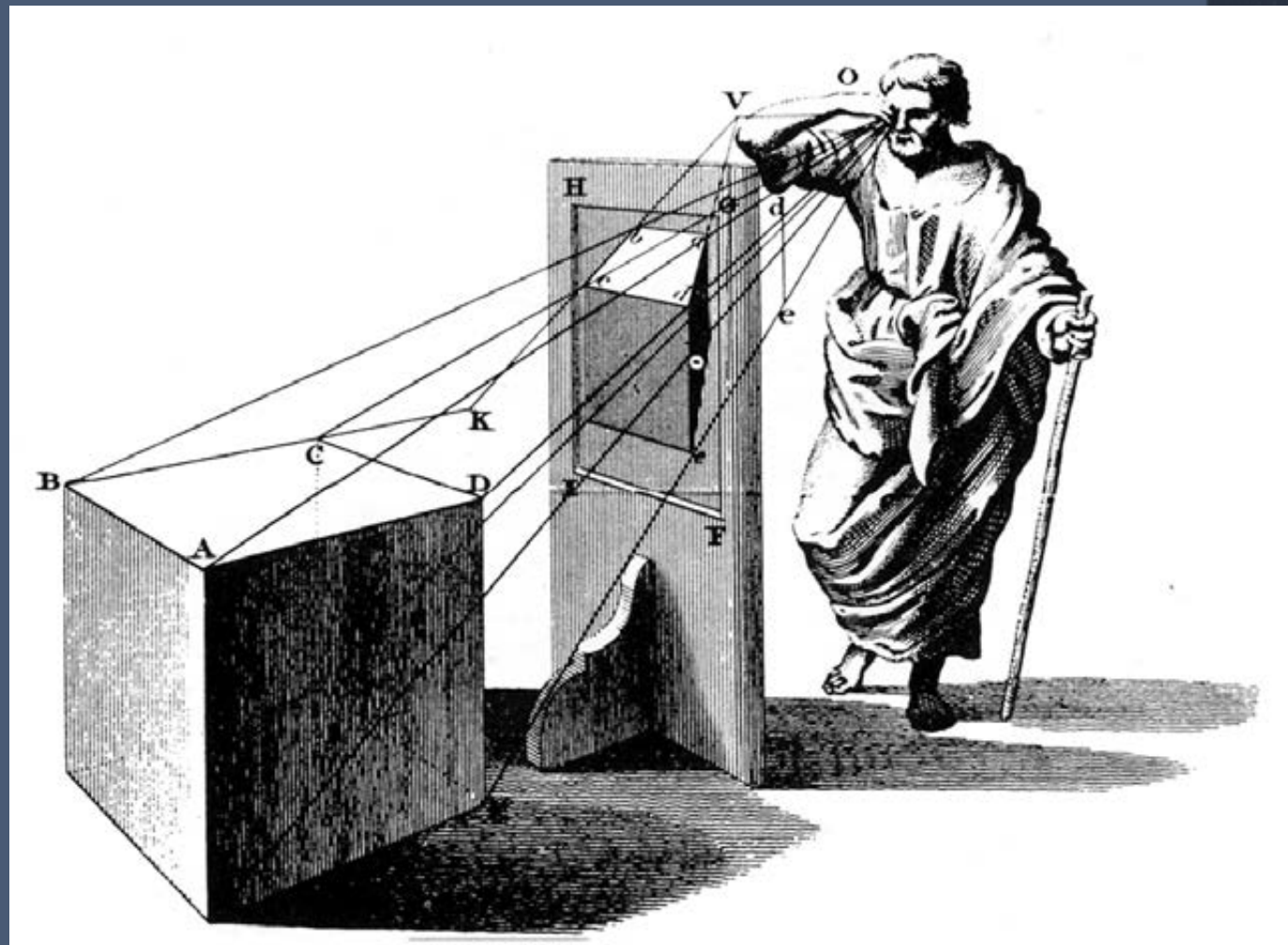


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Visual pyramid,
Brook Taylor, *New Principle of Linear Perspective* (London, 1719),



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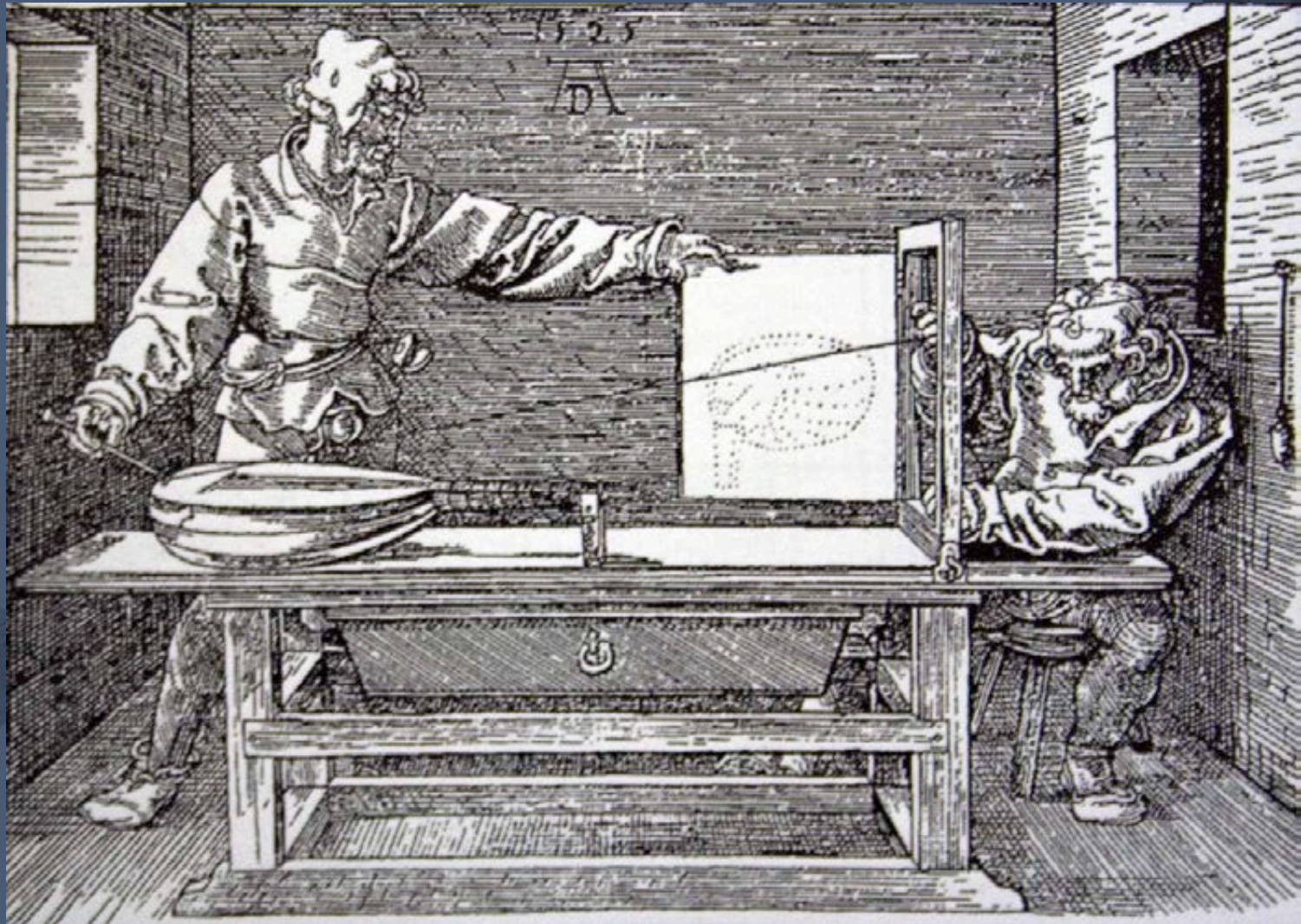


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Durer, Men drawing a lute in Unterweysung der Messung, Nuremberg, 1525



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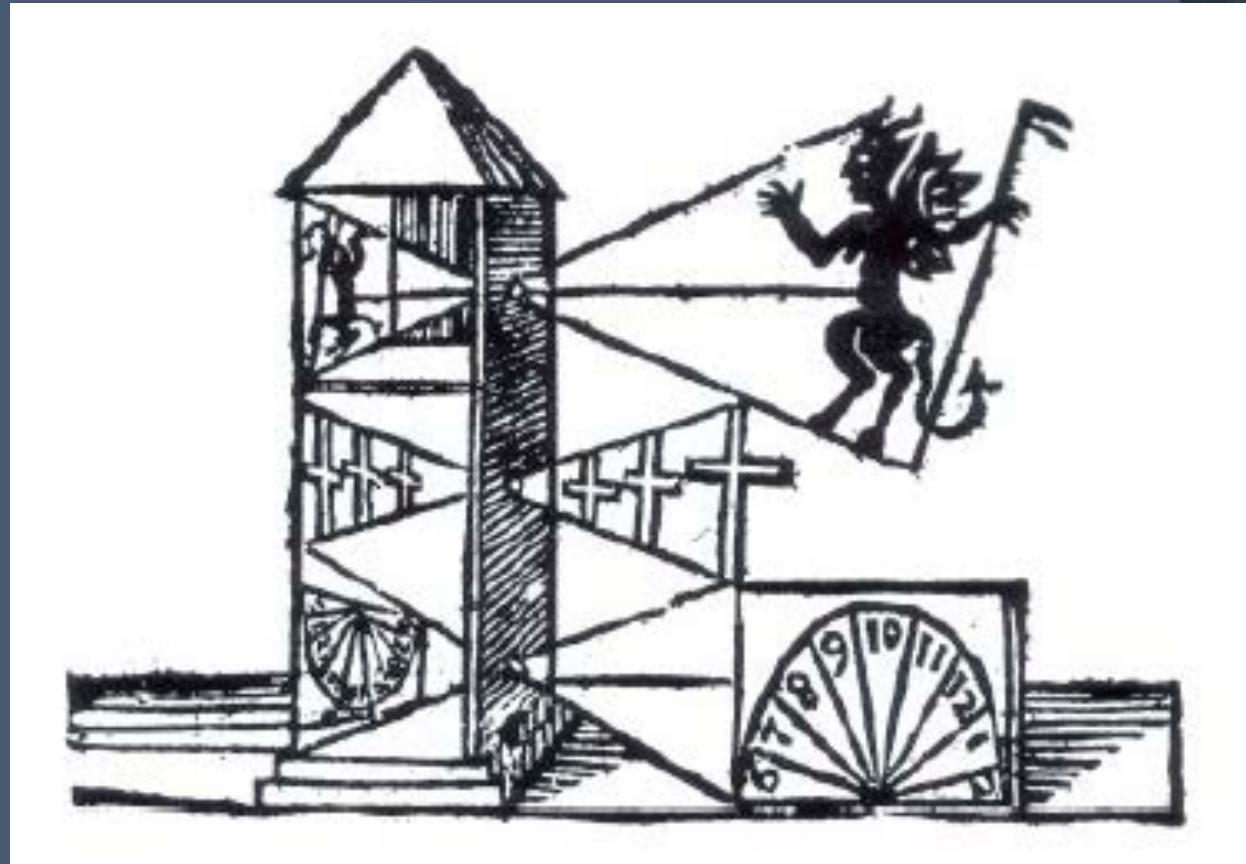


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*Drawing of the physical principle of the camera obscura
by Roger Bacon (1214-1294)*



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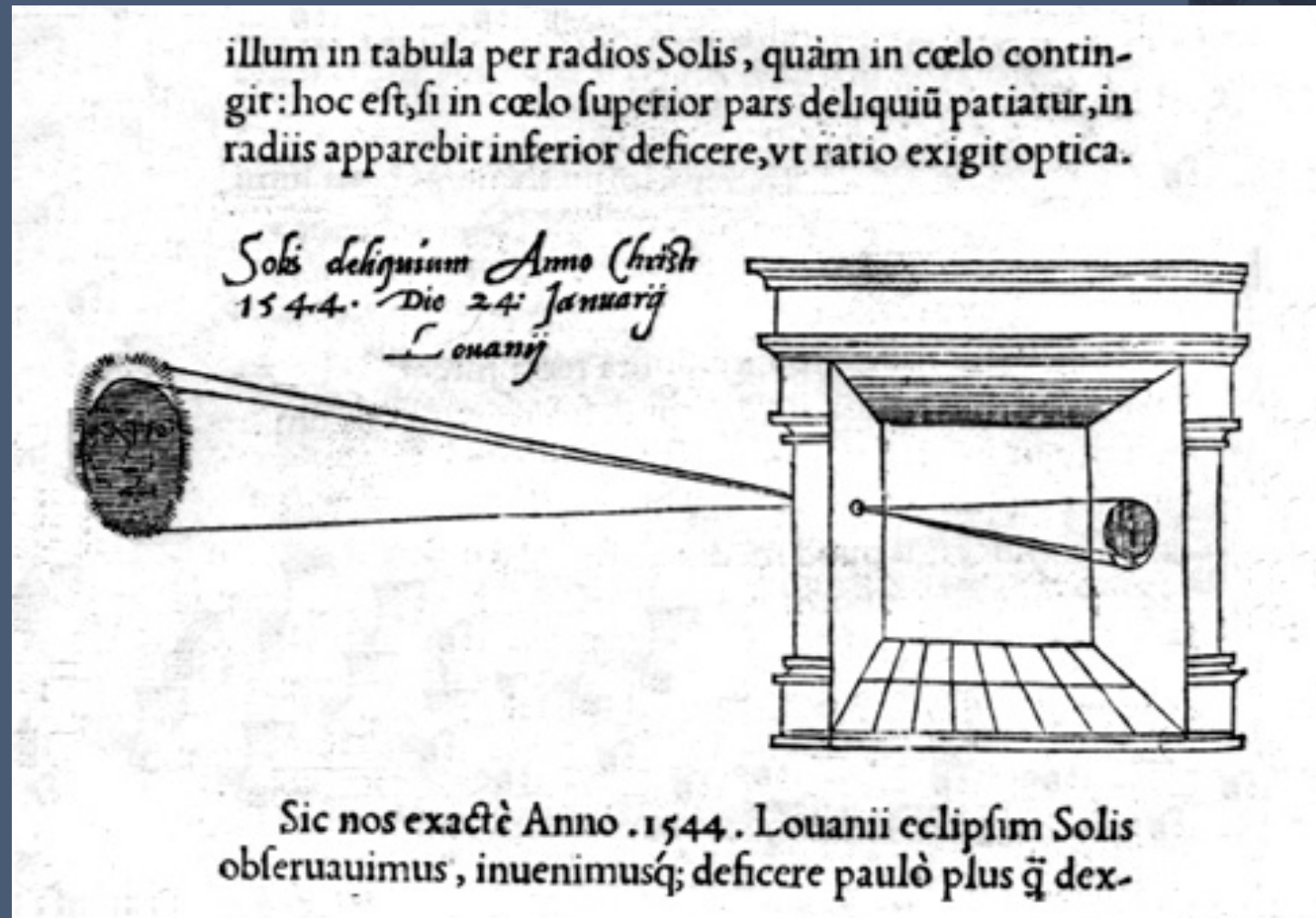


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Solar eclipse in Louvain in De radio astronomico et geometrico liber, Regnier Gemma Frisius. 1544



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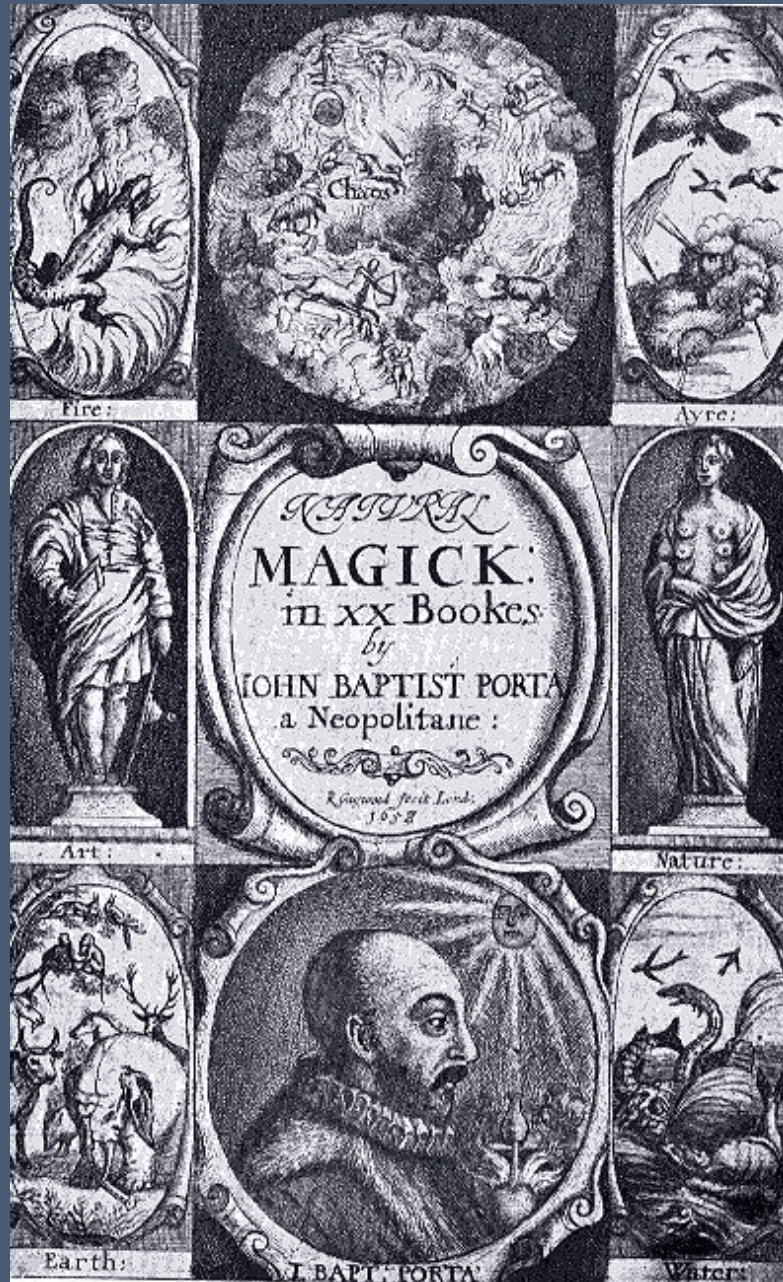


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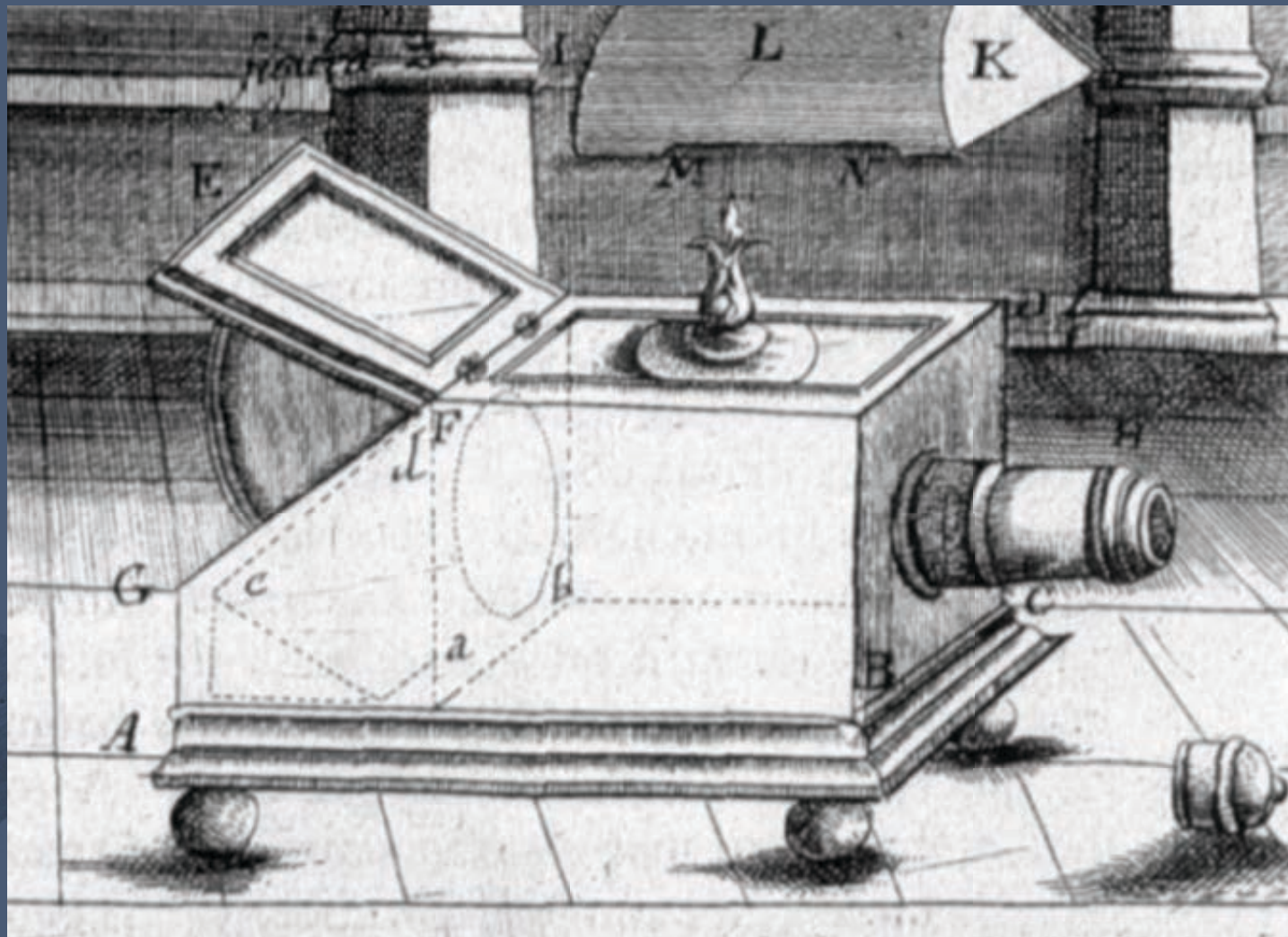
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Magiae Naturalis, 1589
Giovanni Battista Della Porta.

Frontispiece of an English
translation of *Natural Magick*
published in London in 1658



Johann Zahn, *Oculus artificialis teledioptricus*, 1685



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Flier to of a Camera Obscura, London, 1820.

"By this Instrument, persons unacquainted with Drawing, are enabled to take an exact likeness of anything they desire."



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Camera obscura XVIII Century



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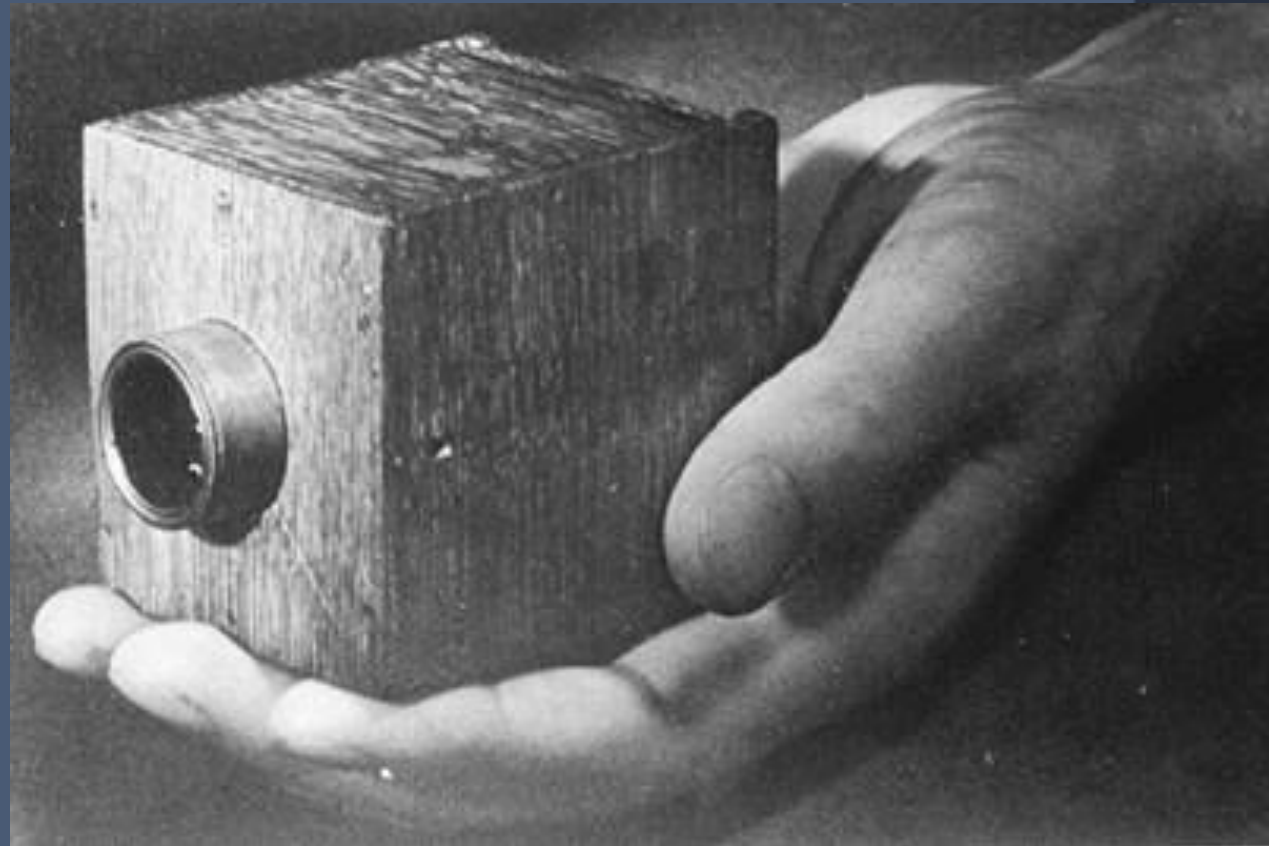
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CHARACTERISTICS: PORTABILITY



Camera obscura portable



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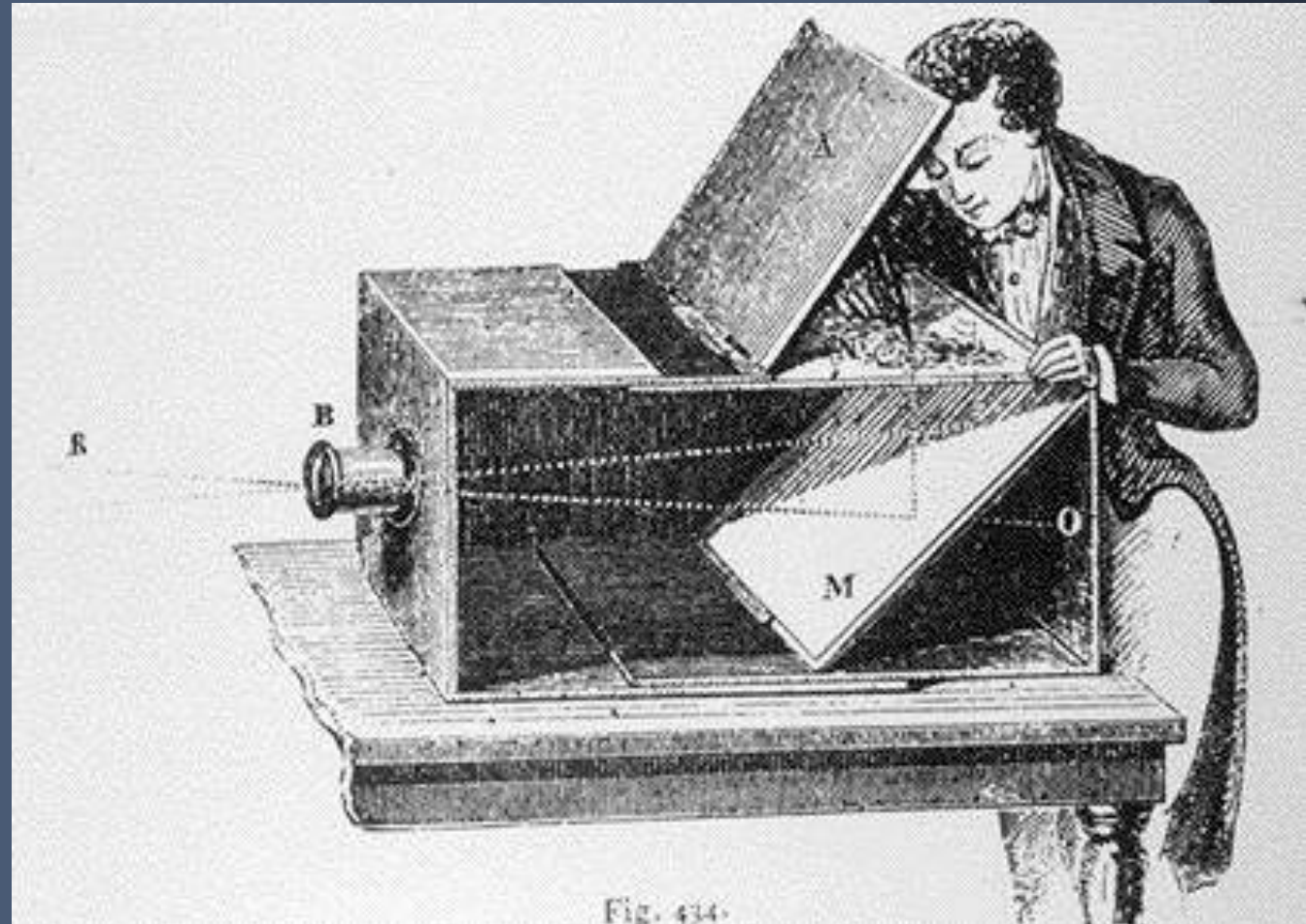
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CHARACTERISTICS: THE ENTIRE IMAGE CAN BE OBSERVED AT ONCE



Camera obscura, *Treatise elementary of physic* , A. Ganot, 1855



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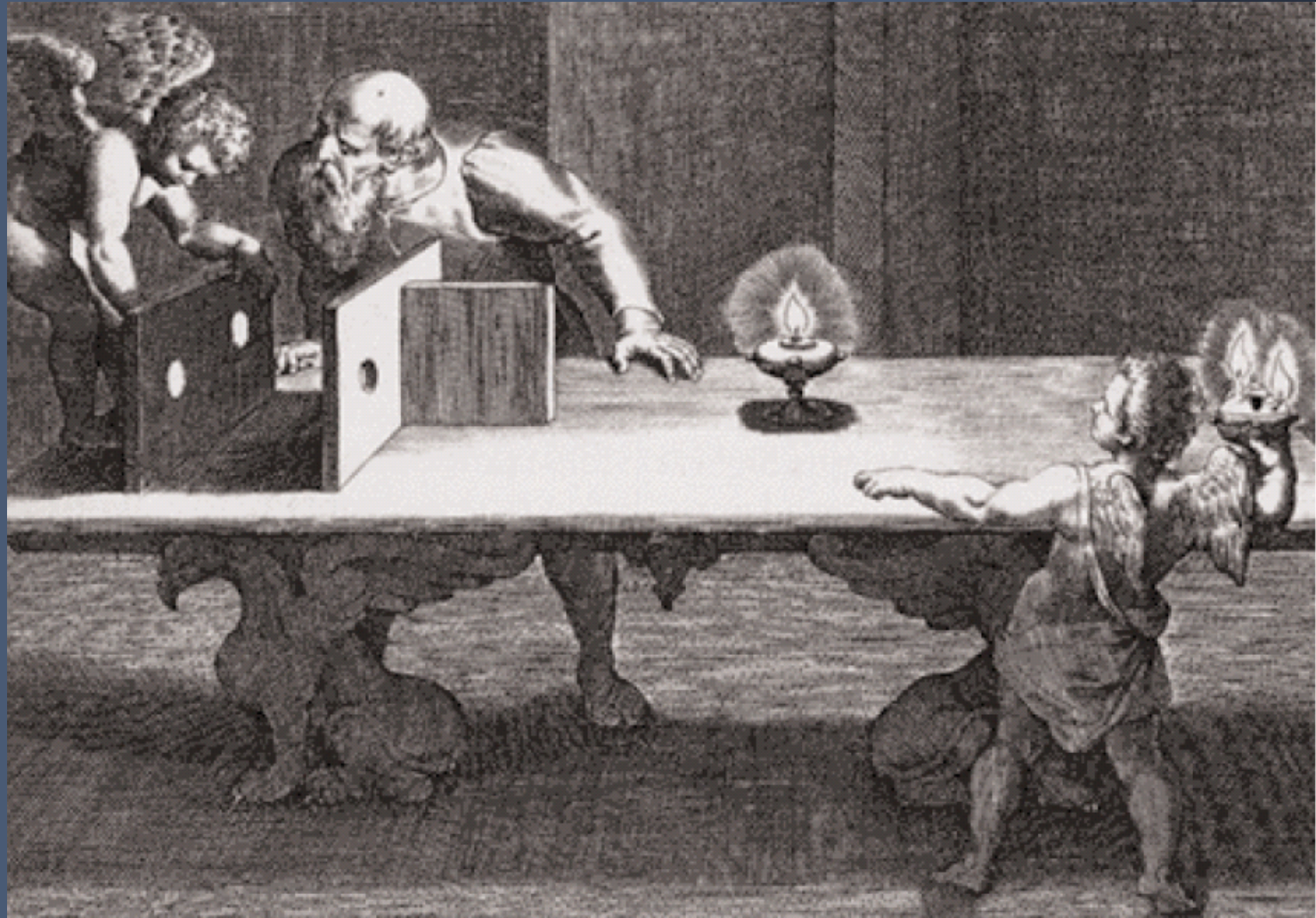
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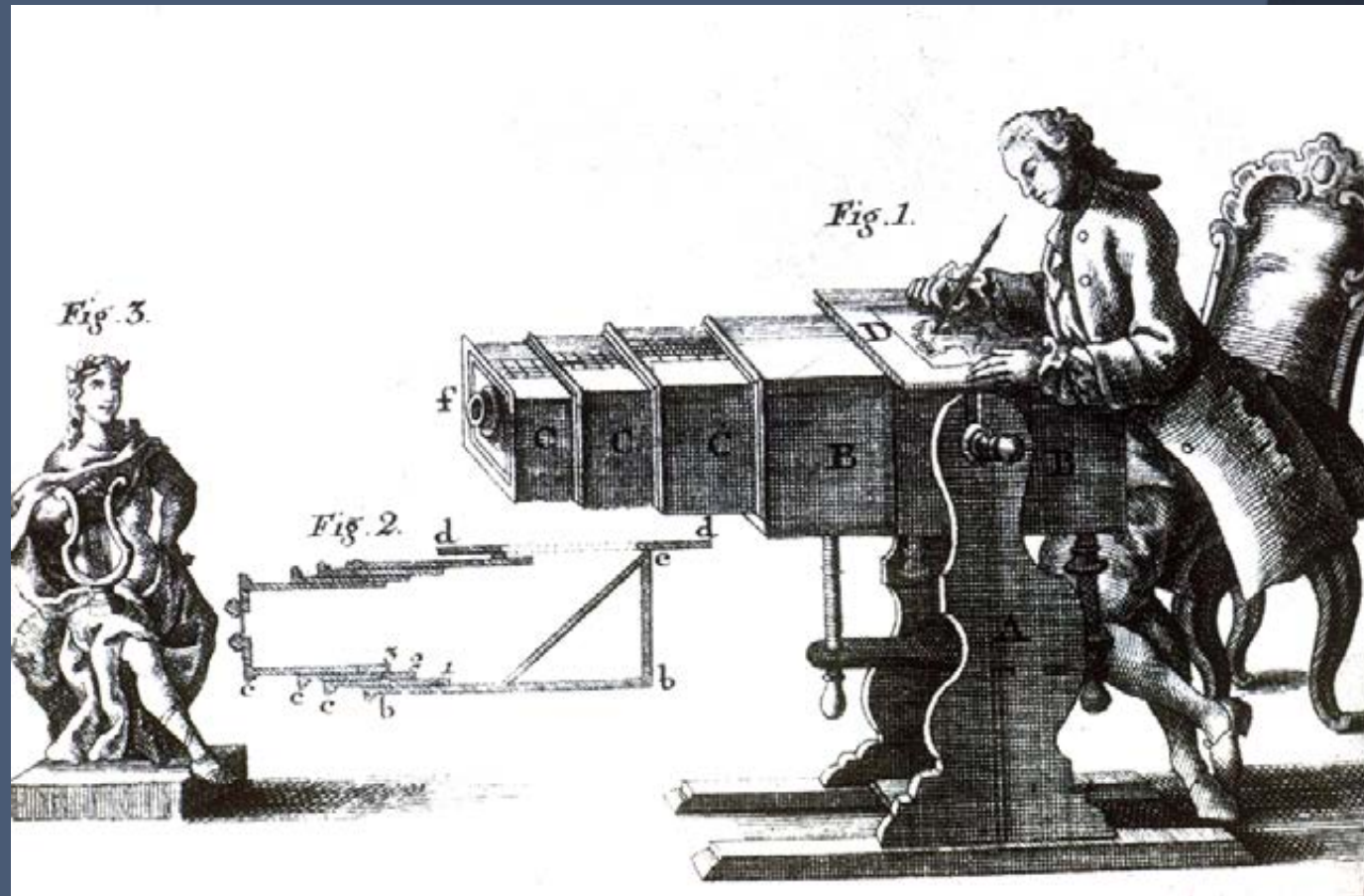
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TYPE OF HOLE: SIZE / LENS / TYPE OF LENS



P.P. Rubens engraving , François d'Aguillon, Óptica, 1611

BELLOWS ALLOWS TO FOCUS CLOSER SUBJECTS



G.F.Brander, Drawing with the help of a camera obscura, 1769

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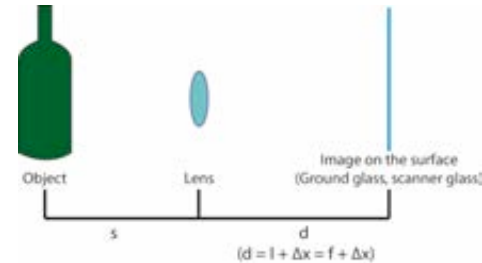
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HOW TO CALCULATE THE FOCUSING DISTANCE



These are the variables used to calculate the focusing distances.

s = distance from lens to object (focusing plane)

d = distance from lens to image

f = focal length

- Every lens has a focal length expressed in millimeters. If we don't know the focal length of a lens we take the lens, we focus the infinite and project the image on a surface (e.g. a wall) until the image is focused. Then we have to measure the distance between the lens and the wall. That's the focal length expressed in centimeters (we convert to millimeters by multiplying by ten).

- Notice that in a camera obscura with bellows $d = l + \Delta x$, where $l = f$ expressed in centimeters. That means that when the lens is in the closest position to the image the infinite is on focus. Δx is the sliding distance of the bellows. It's a variable. If we move the lens backwards or forwards we will focus on different depth planes.

These are the two practical formulas to use:

A.
$$s = \frac{f \cdot (f + \Delta x)}{\Delta x}$$

We use this formula if we want to calculate where we have to place an object for a given sliding distance. For example, if we have a camera with a lens with a focal distance, $f = 200 \text{ mm} = 20 \text{ cm}$ and we move the sliding box, $\Delta x = 10 \text{ cm}$. we get:

$$60 = \frac{20 \cdot (20 + 10)}{10}$$

(All the figures in centimeters) So the object must be placed 60 centimeters (25,58 inches) away from the lens. With the same formula we can calculate the closest focusing plane if we substitute Δx for the furthest sliding distance.

B.
$$\Delta x = \frac{f \cdot f}{s - f}$$

We use this formula if we want to calculate how far we have to move the sliding box if we want to focus an object placed at a given distance. For example, if we have a camera with a lens with a focal length, $f = 300 \text{ mm} = 30 \text{ cm}$ and we want to focus an object place, $s = 150 \text{ cm}$, we get.

$$7,5 = \frac{30 \cdot 30}{150 - 30}$$

(All the figures in centimeters) So we move the sliding box 7,5 centimeters (2,9 inches) forwards.

NOTE: 1 centimeter = 0,393 inches / 1 inch = 2,54 centimeters



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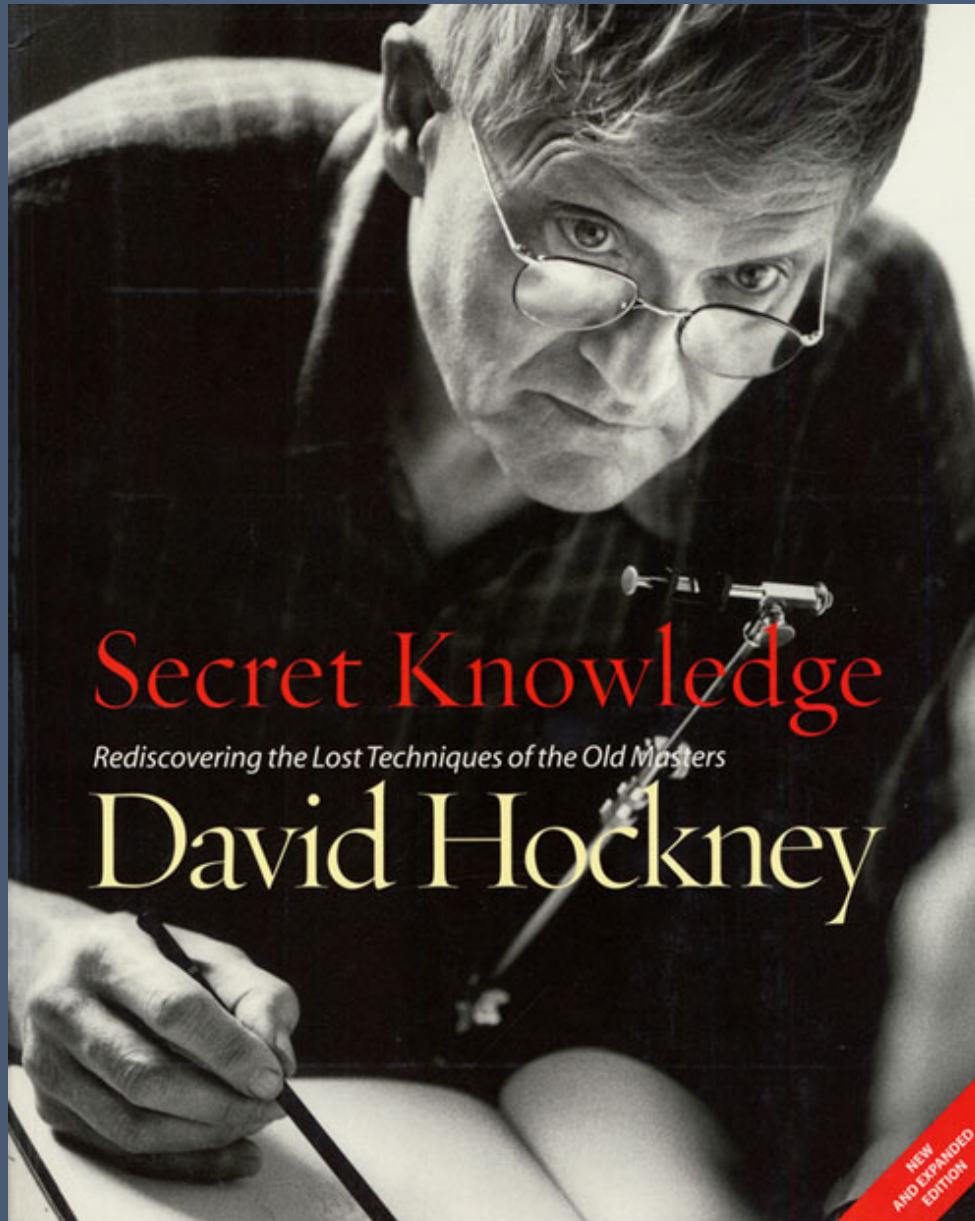


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Van Loo, *The Magic Lantern*, 1764



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Sir Joshua Reynolds book-type camera, London, 18th Century



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Johannes Vermeer.
Music class, 1662-65.



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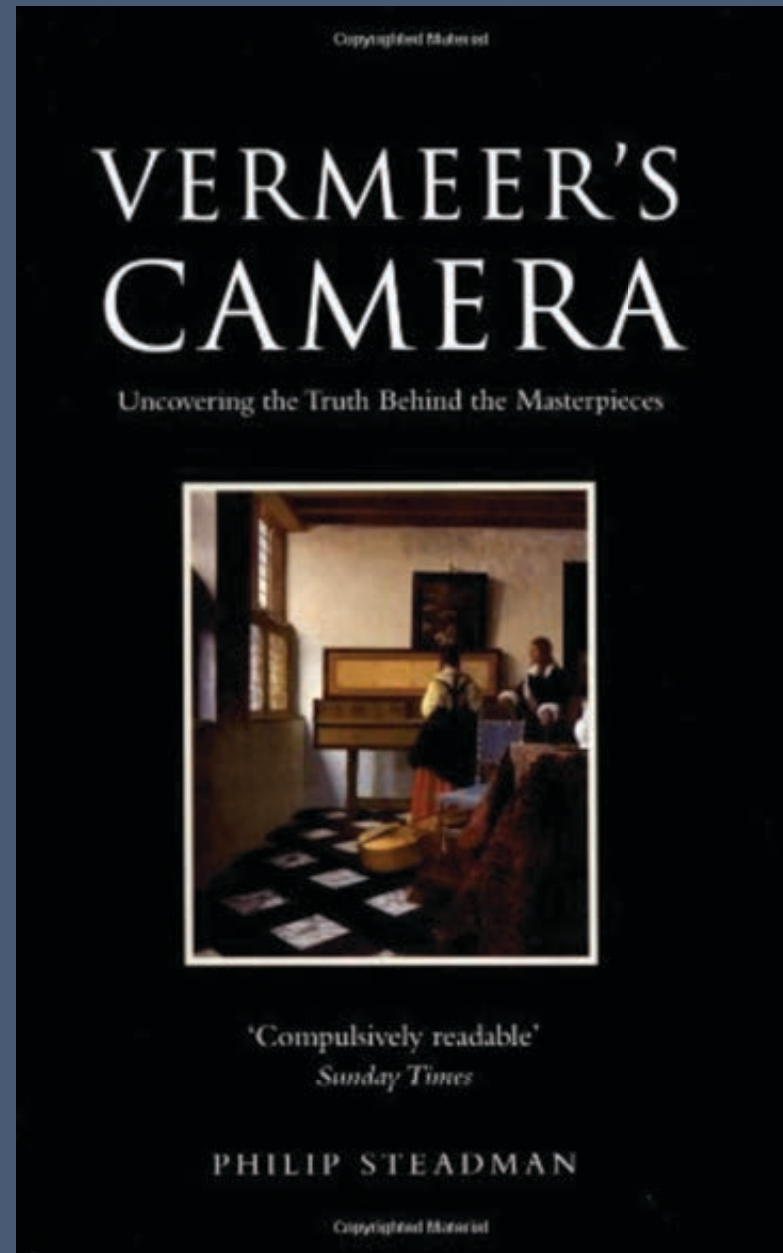


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Johannes Vermeer. *Girl with red hat*, 1665. Oil on wooden panel, 22,8 x 18 cm



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Johannes Vermeer. *Girl with red hat*, 1665. detail



National Gallery of Art. Washington.

Vermeer: Master of Light: Camera Obscura, Part 4. Arthur Wheelock.

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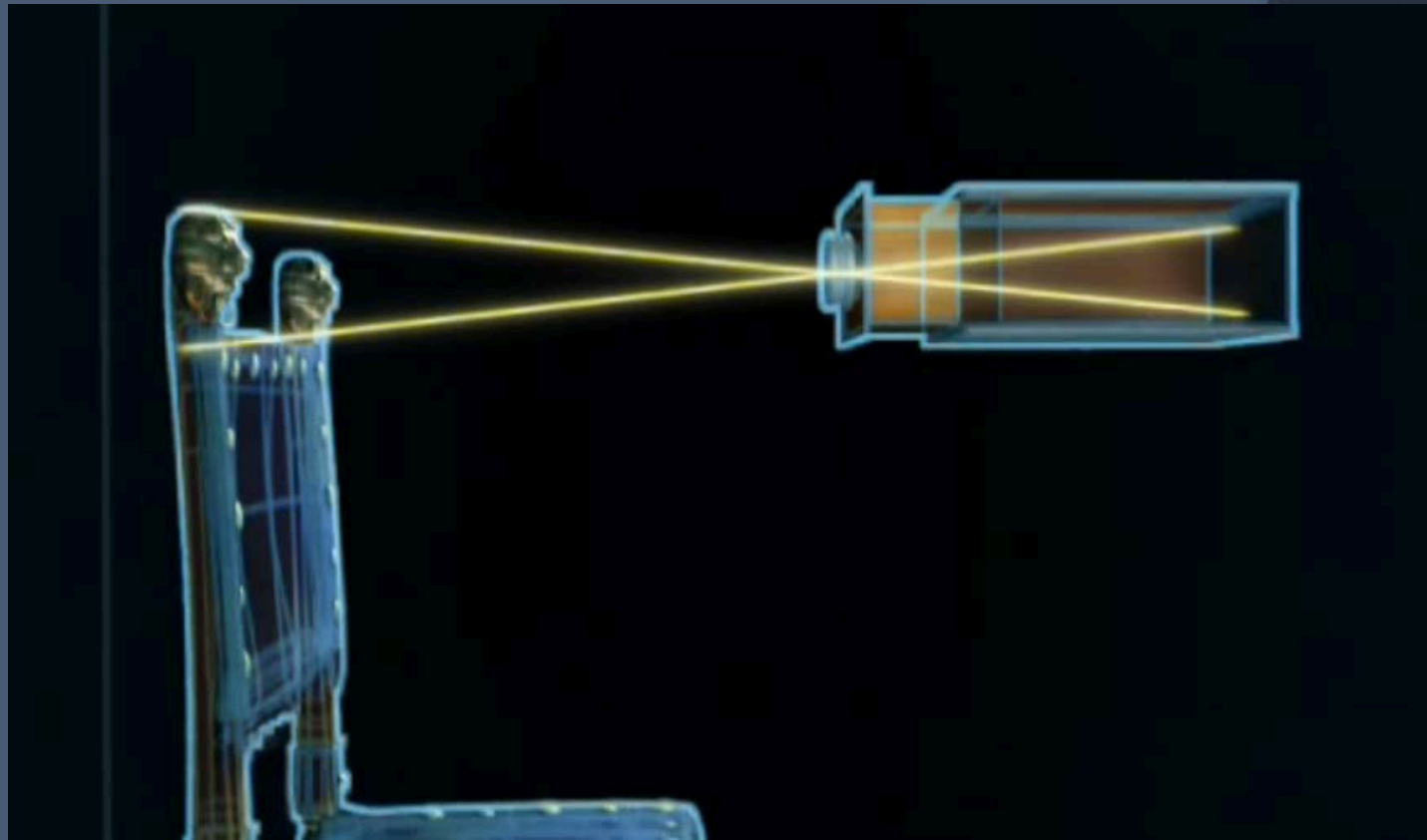


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Video

Fragment of the film
Girl with a pearl earring, 2003
Directed by Peter Webber



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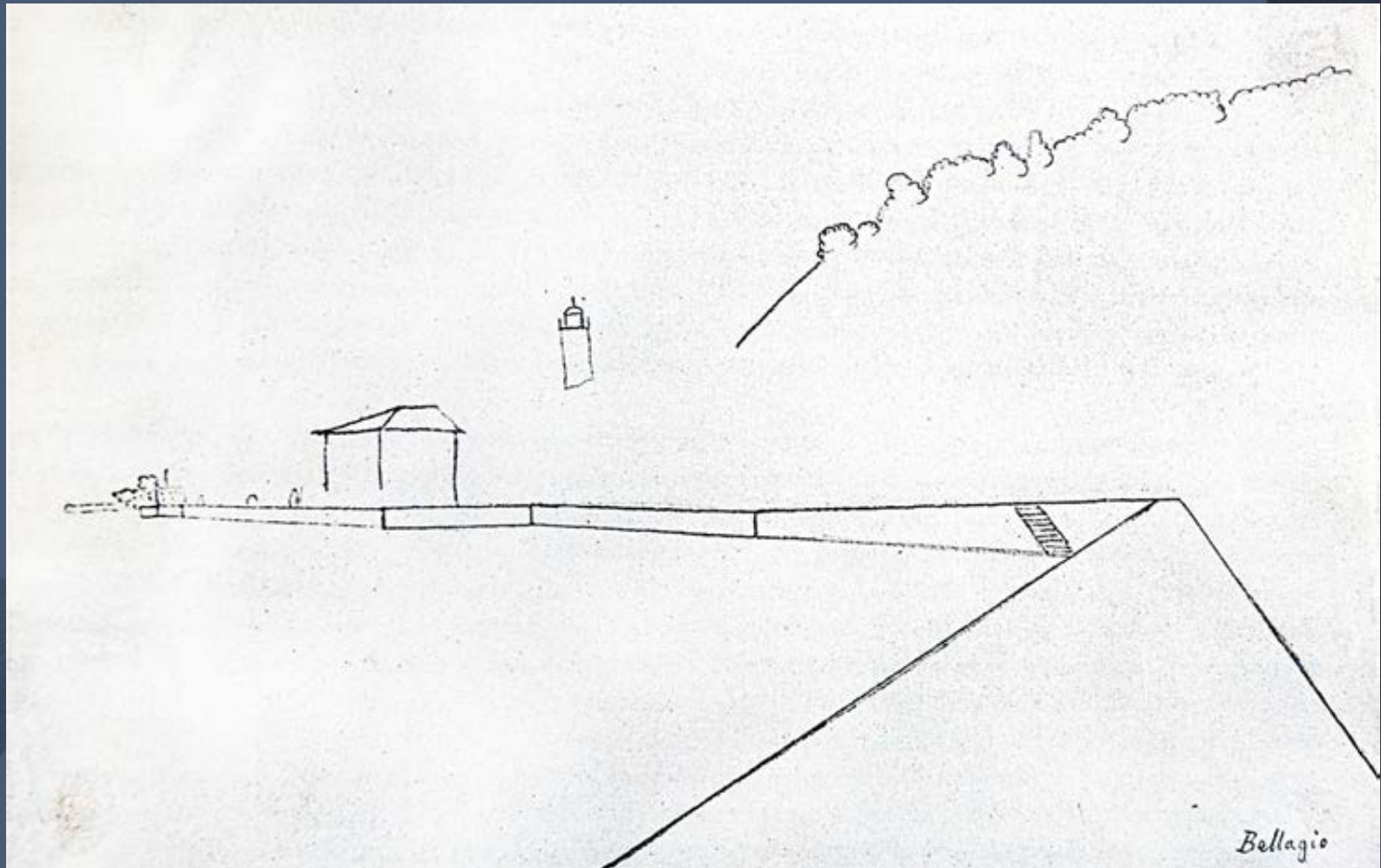


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William Henry Fox Talbot, Bellagio, Drawing from a camera obscura, 1833



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W. H. Fox Talbot, *Lacock church*, salted paper from Fotogenic drawing negative, 1840



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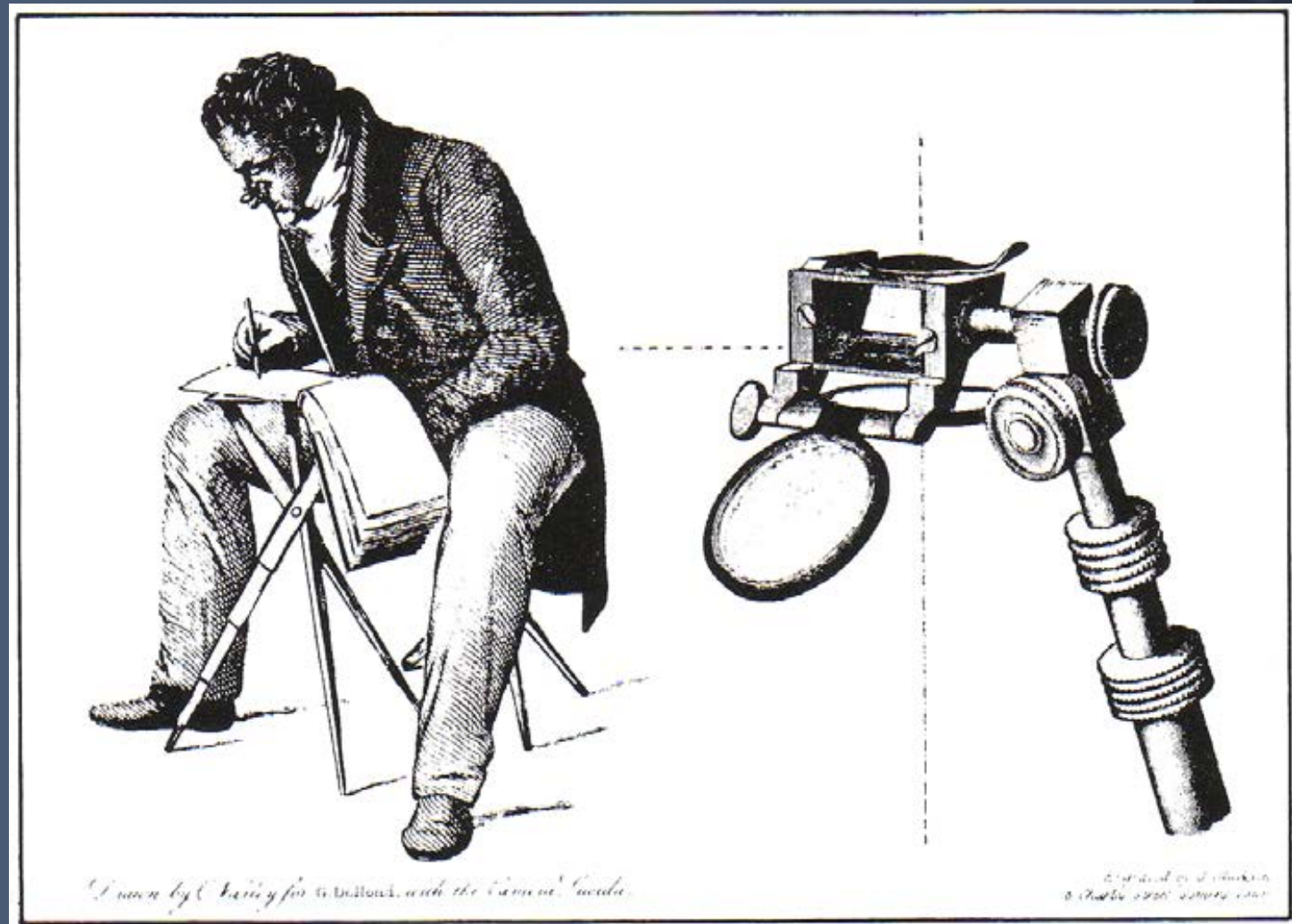


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Camera Lucida invented by W.H. Wollaston in 1808.
(Drawn by C. Varley for G. Dollond with the Camera Lucida, 1810)



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Camera lucida, late 19th Century



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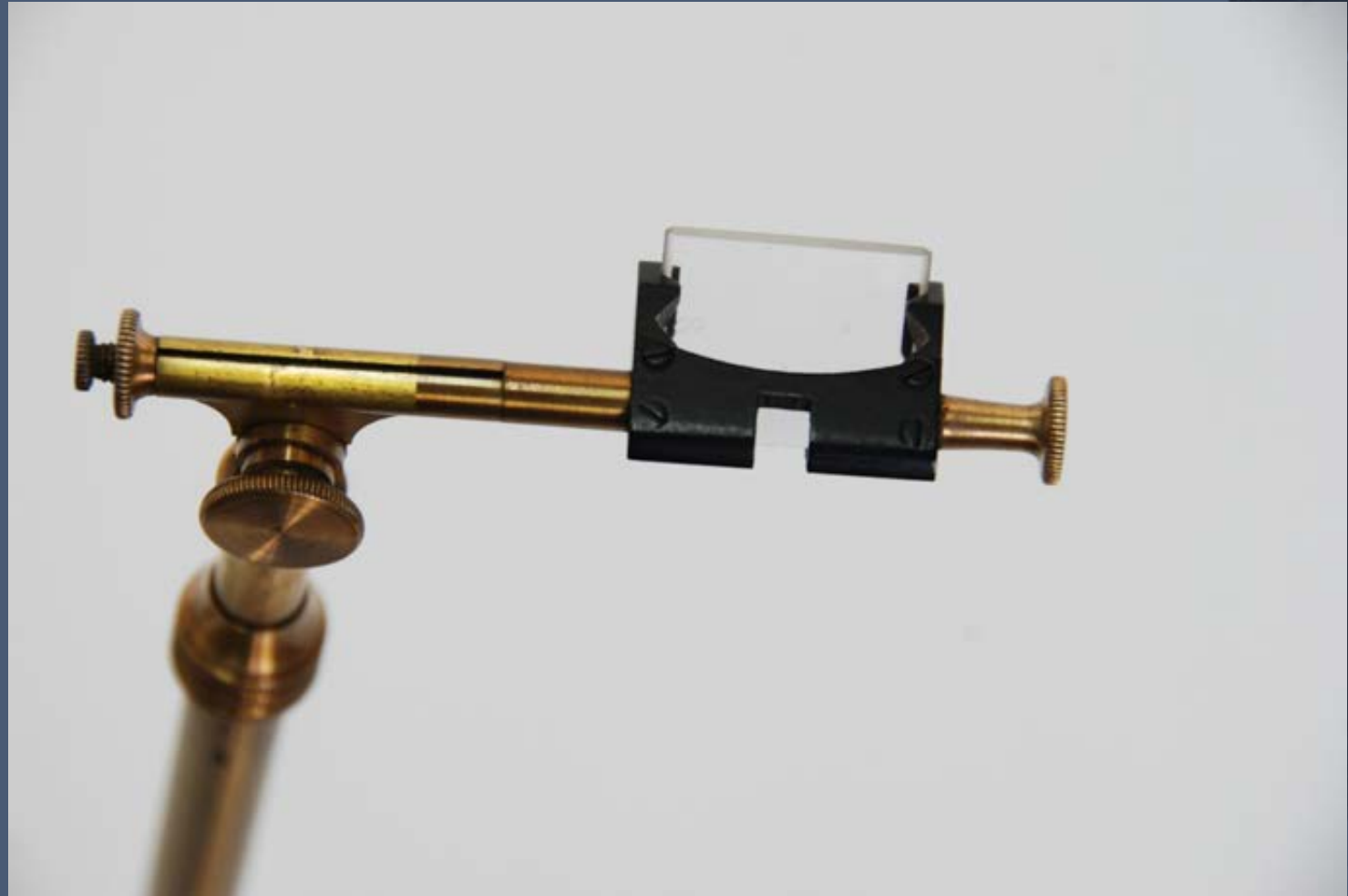


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Prism of the camera lucida



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Camera lucida with fix lenses



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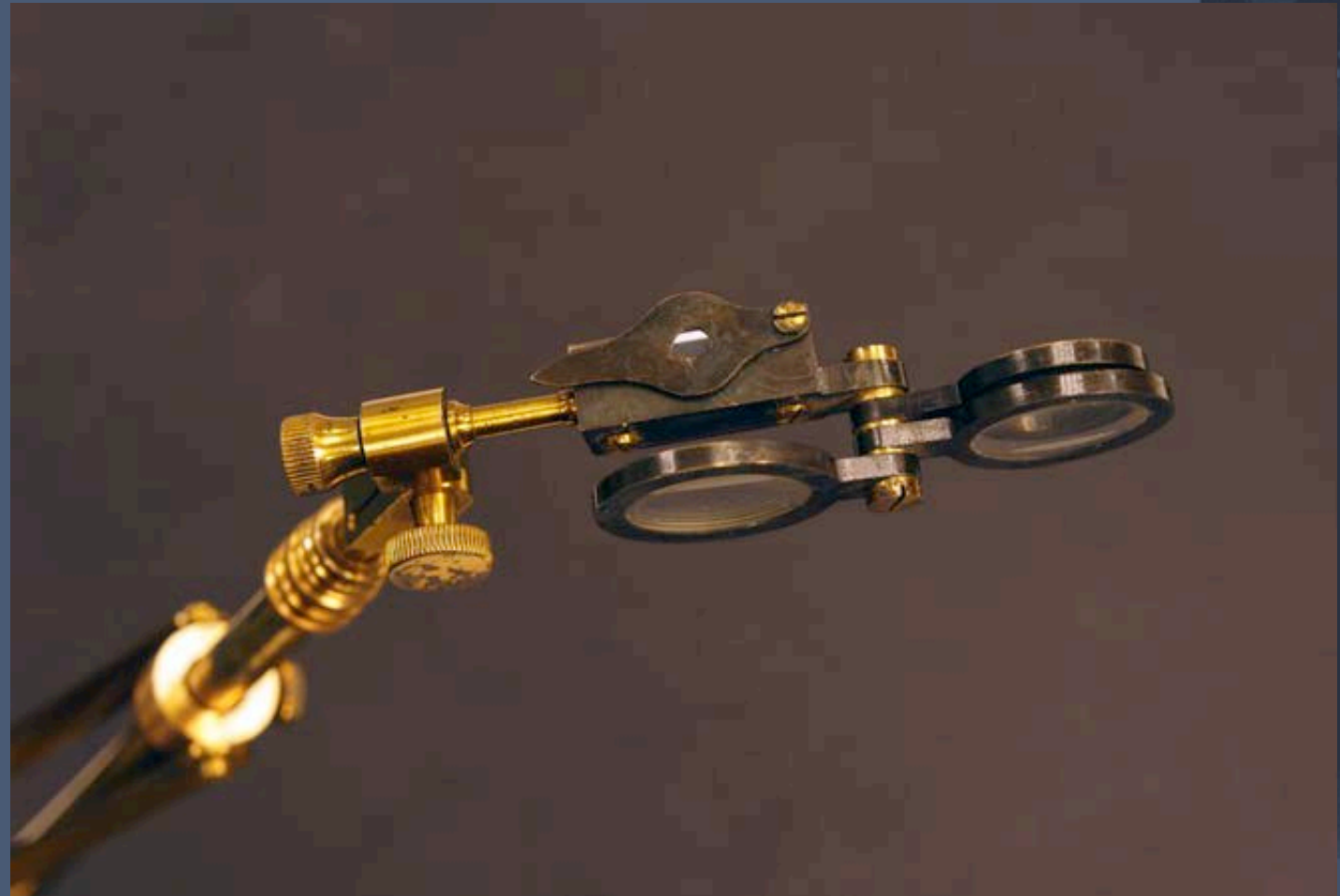


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Camera lucida with fix lenses



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Camera lucida *Claire Vue*, mid-20th Century



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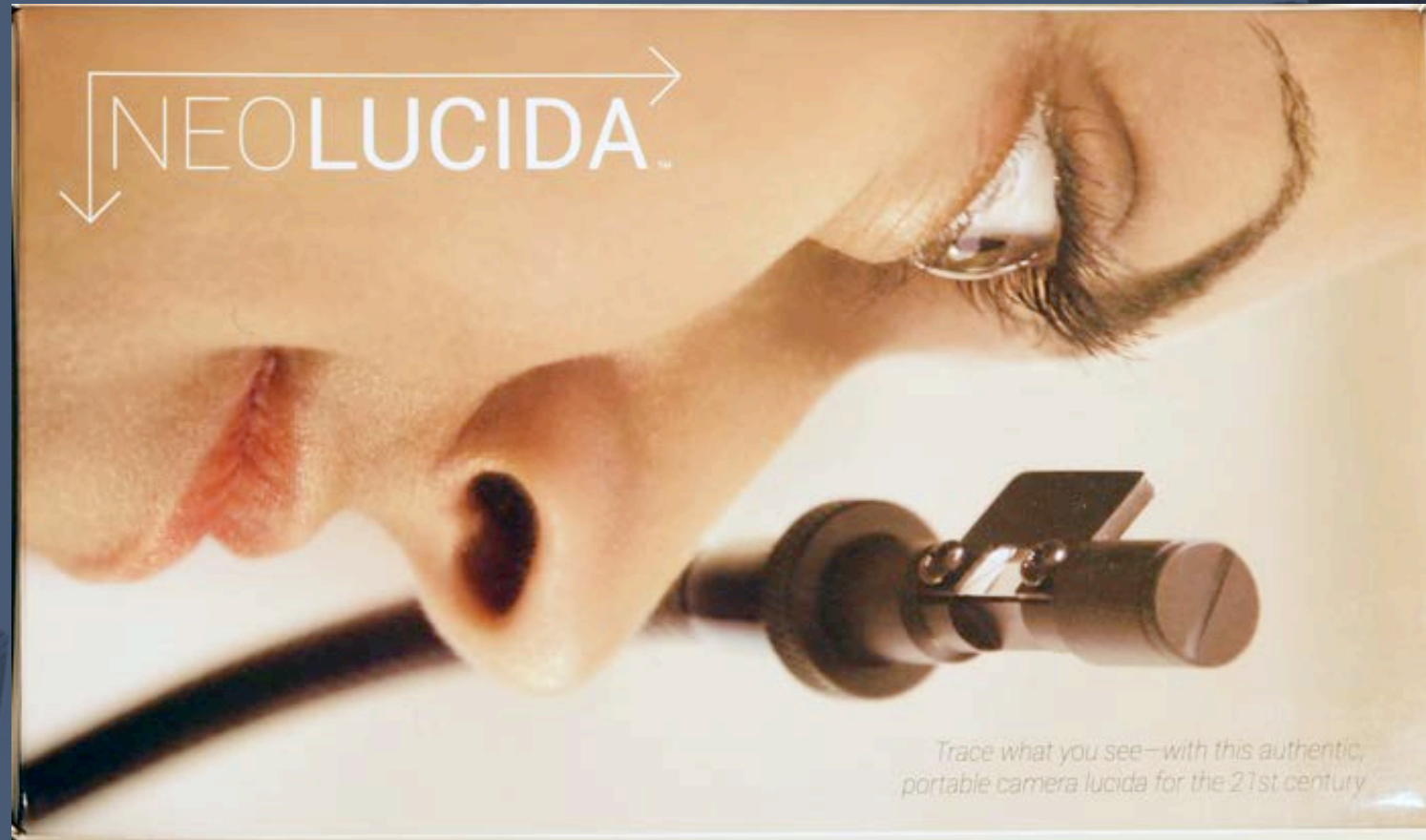


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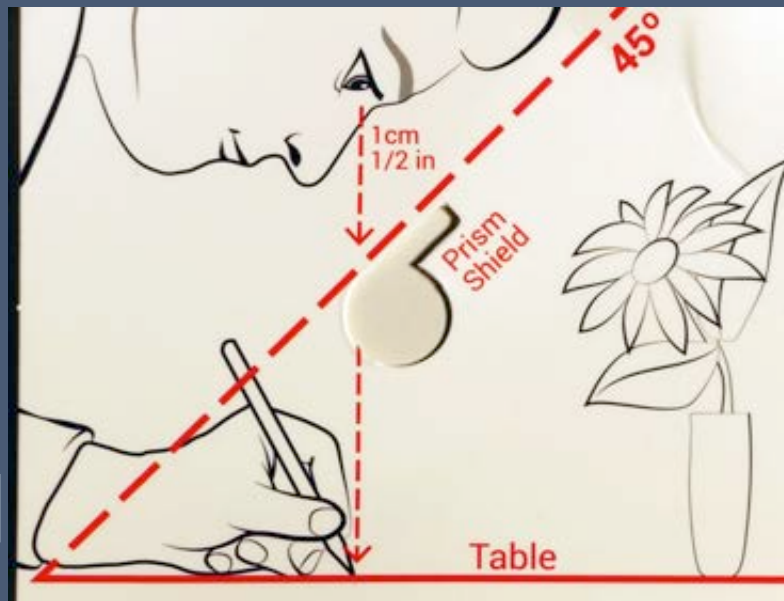


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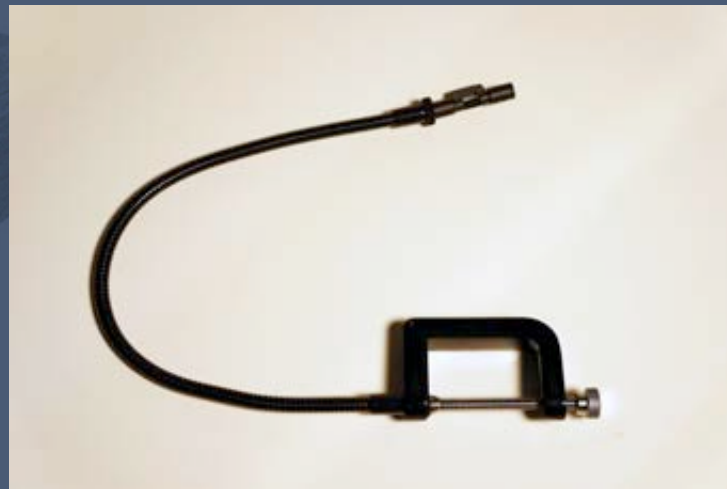
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NeoLucida Eyepiece Angle Guide

1. To use the NeoLucida, your Eyepiece Prism Shield must be at **45° to the table**.
2. Slide this angle guide over the Eyepiece and rotate until the bottom of this card is parallel to the table.
3. Look **STRAIGHT DOWN** past the prism's exposed edge at your pencil.





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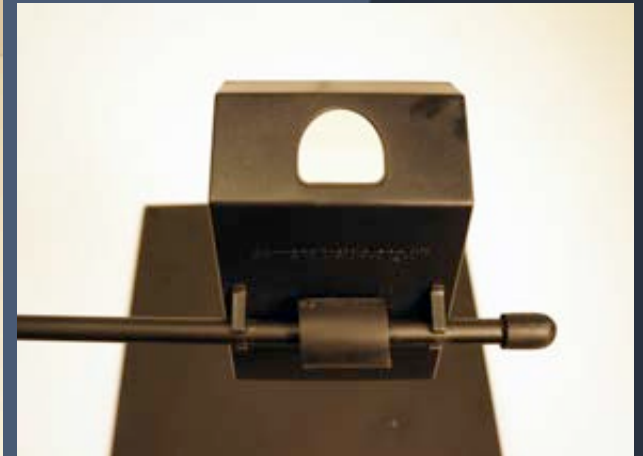


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<http://www.cameralucida.org.uk/>



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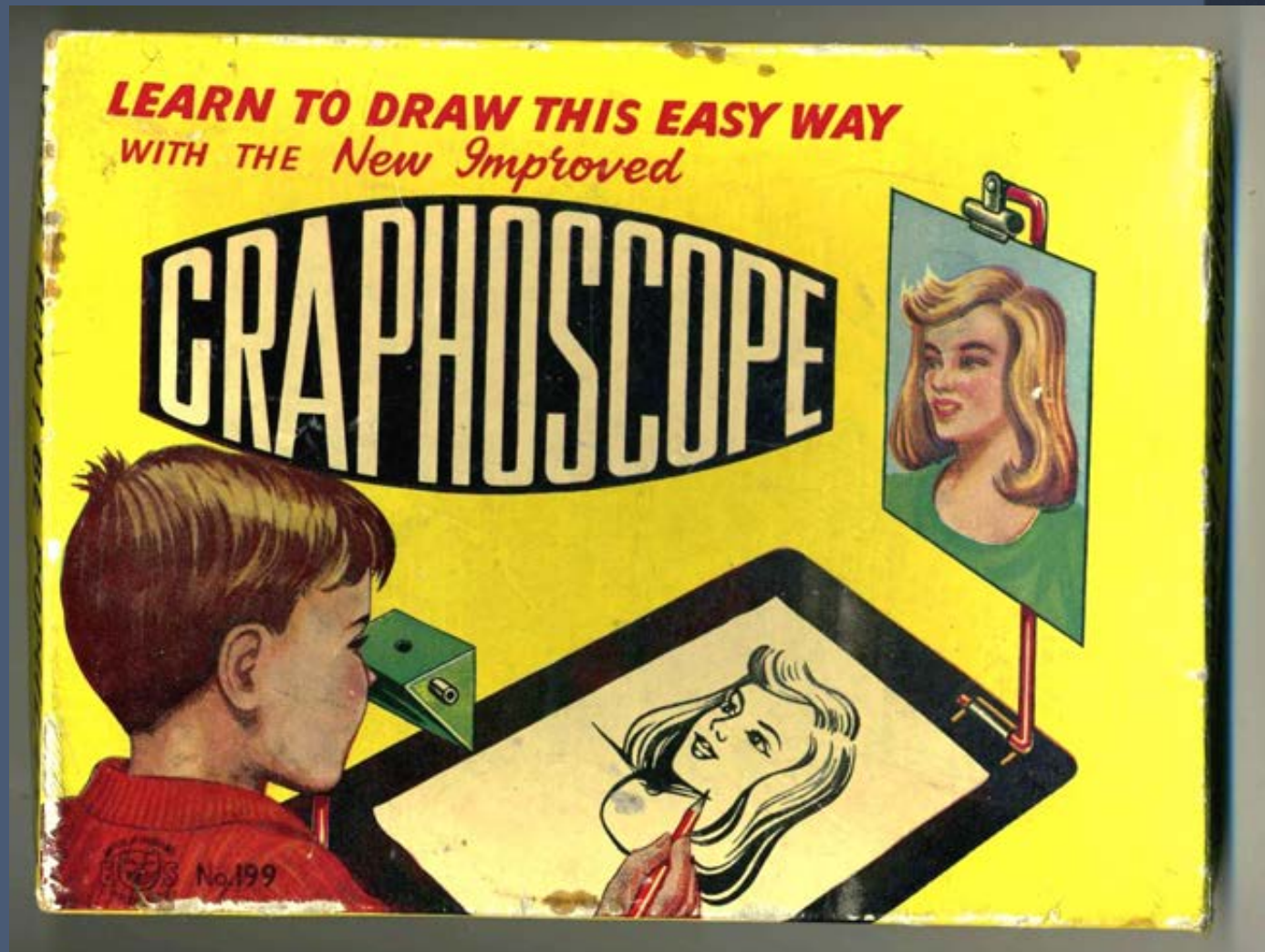


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Graphoscope, drawing toy based on the camera lucida, 1960s

History of optical devices: Peepshows (Optical boxes)



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History of optical devices: Peepshows (Optical boxes)



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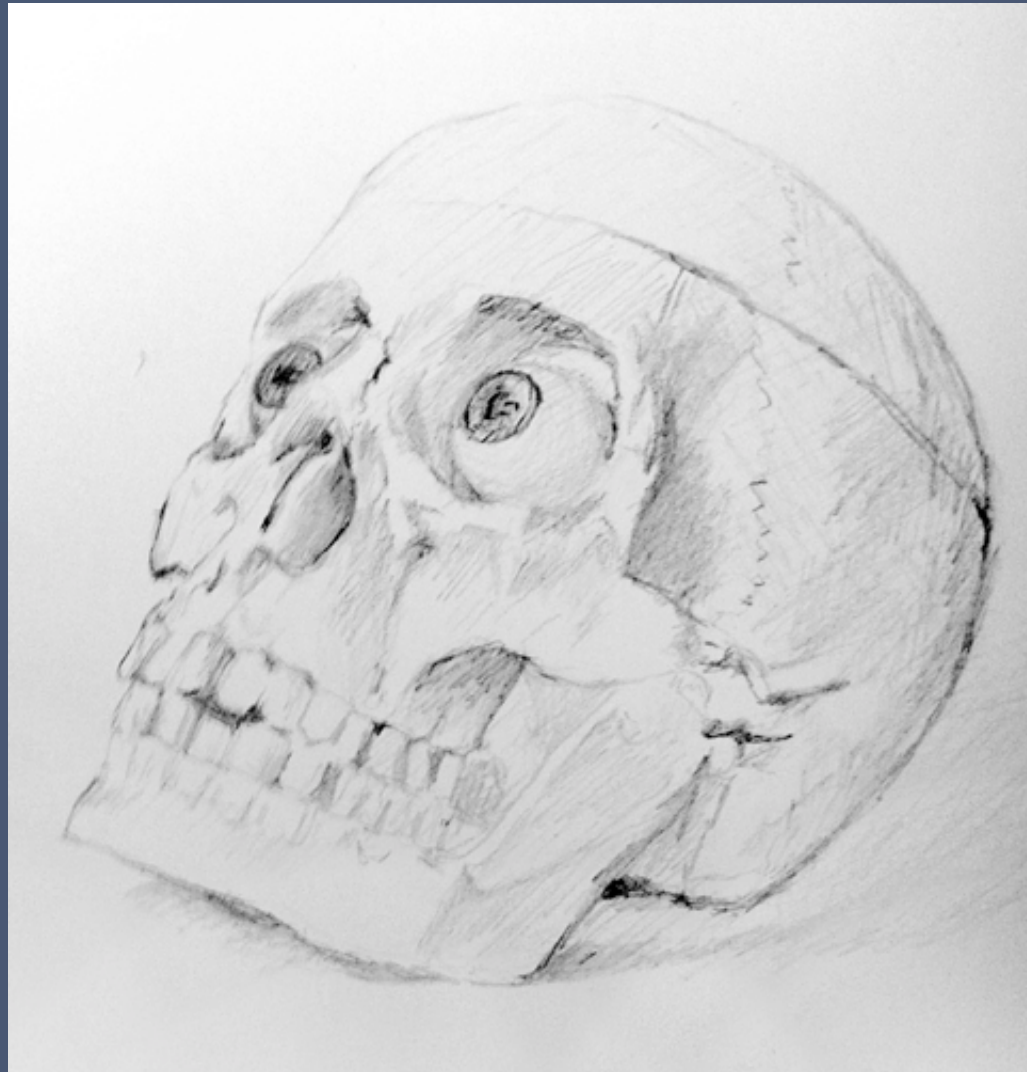


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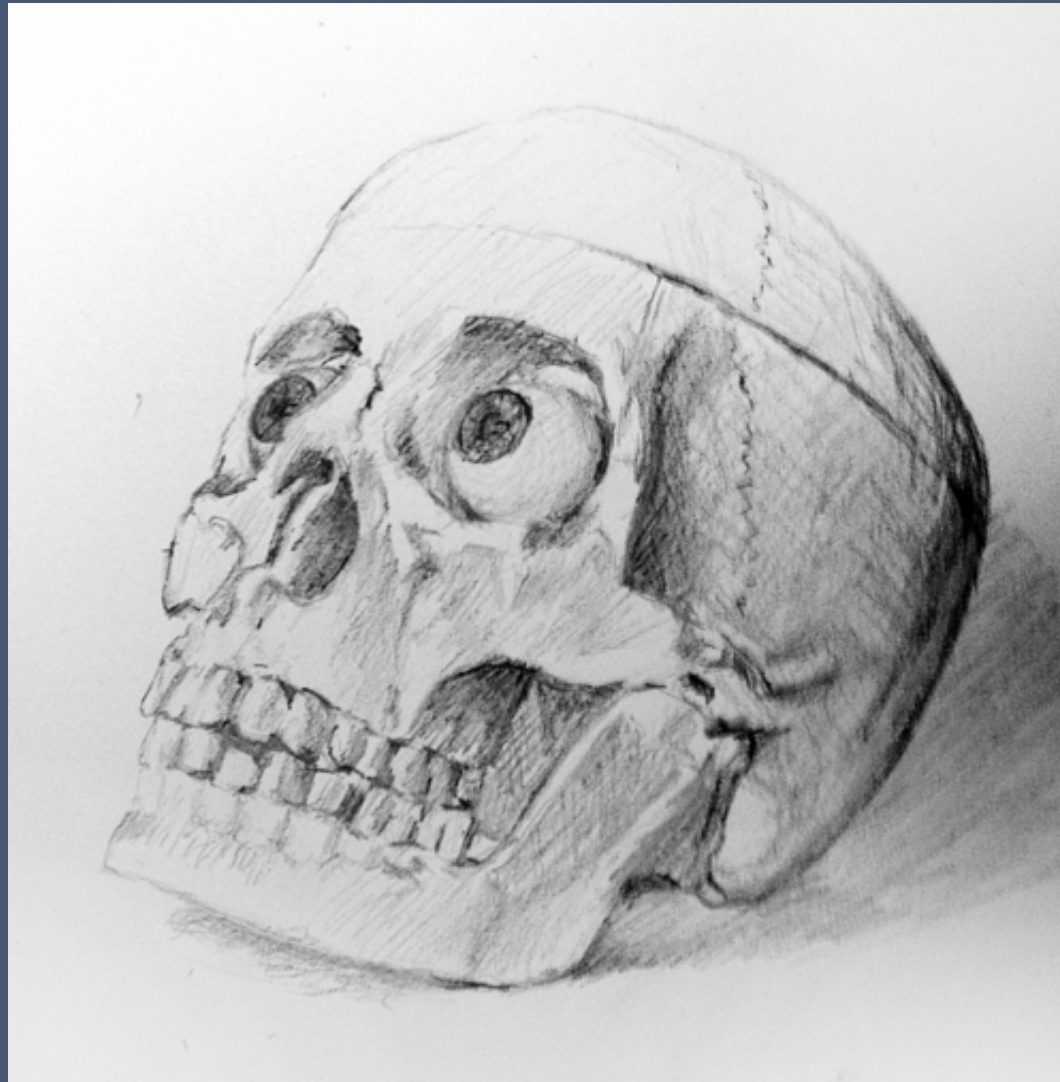


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History of optical devices: Peepshows (Optical boxes)



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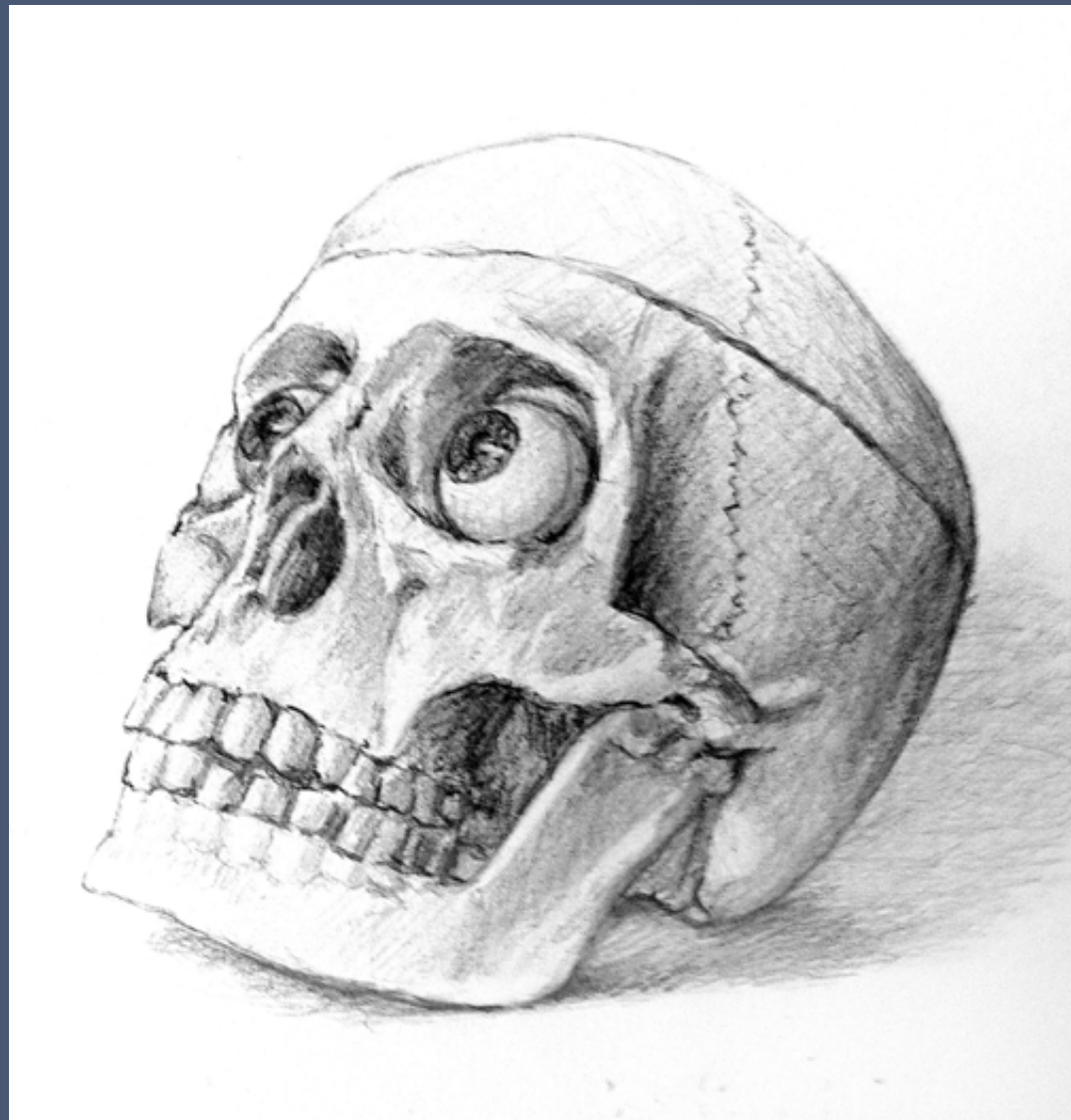


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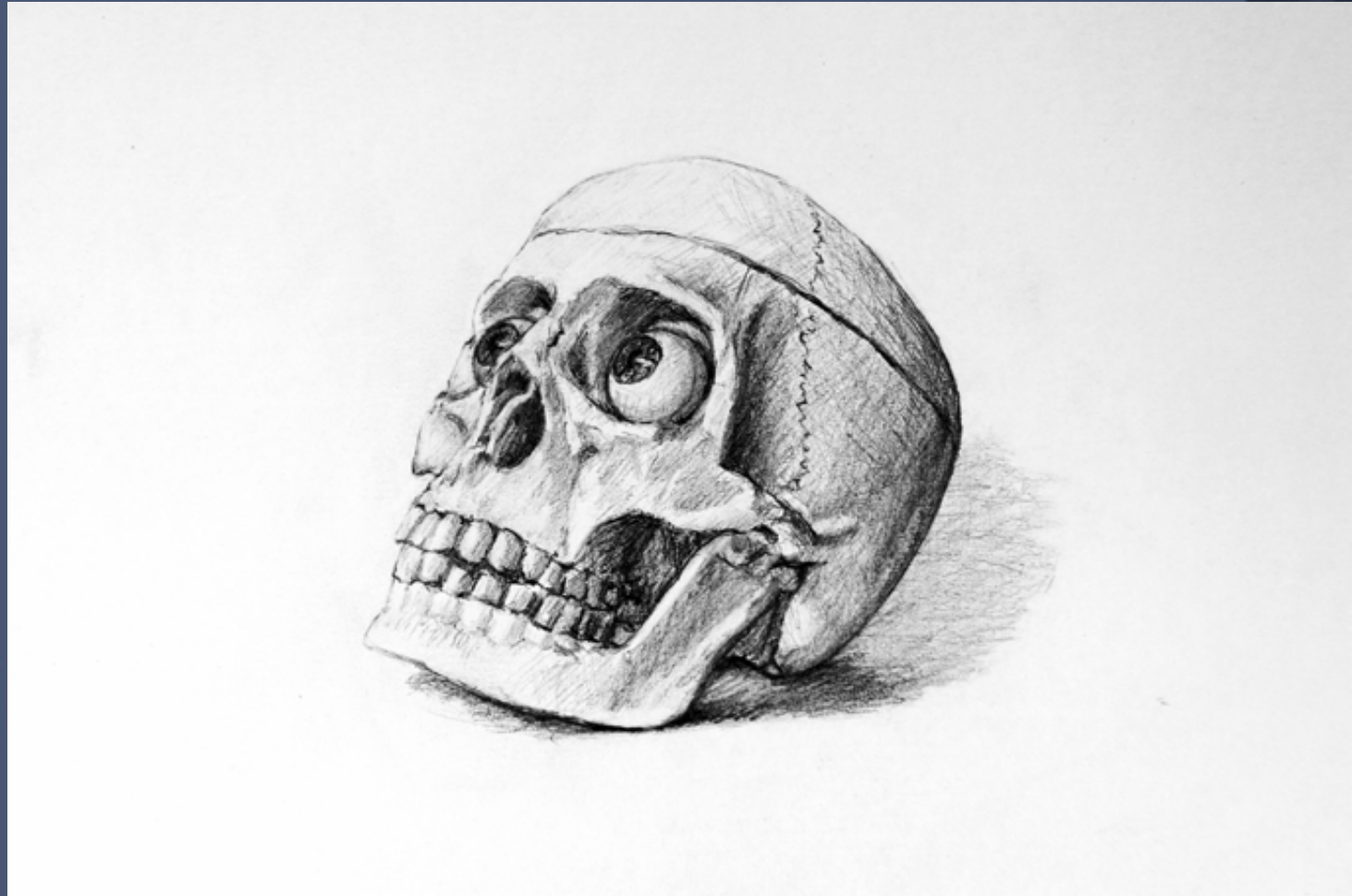


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José Vicente Martín, camera lucida drawing, 2014



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José Vicente Martín, camera lucida drawing, 2014



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TYPES

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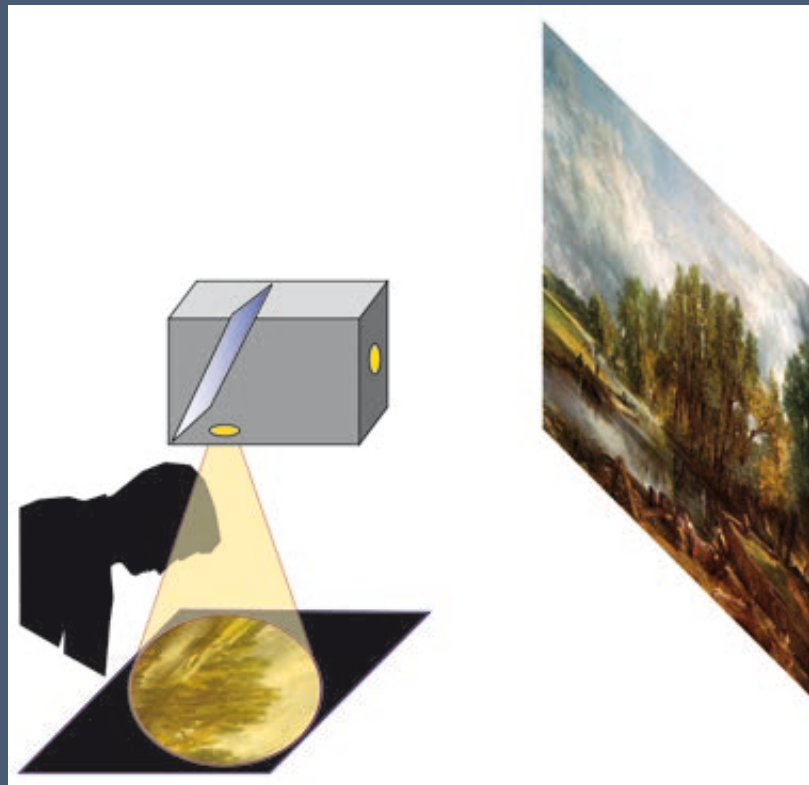
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José Vicente Martín, camera lucida drawing, 2014

A2. IMAGE OVER



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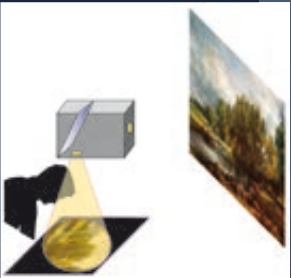


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Tent camera obscura, Edmund Atkinson, 1875

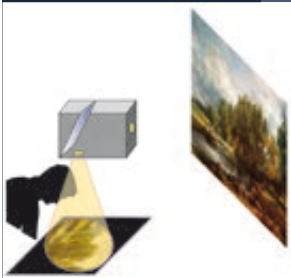


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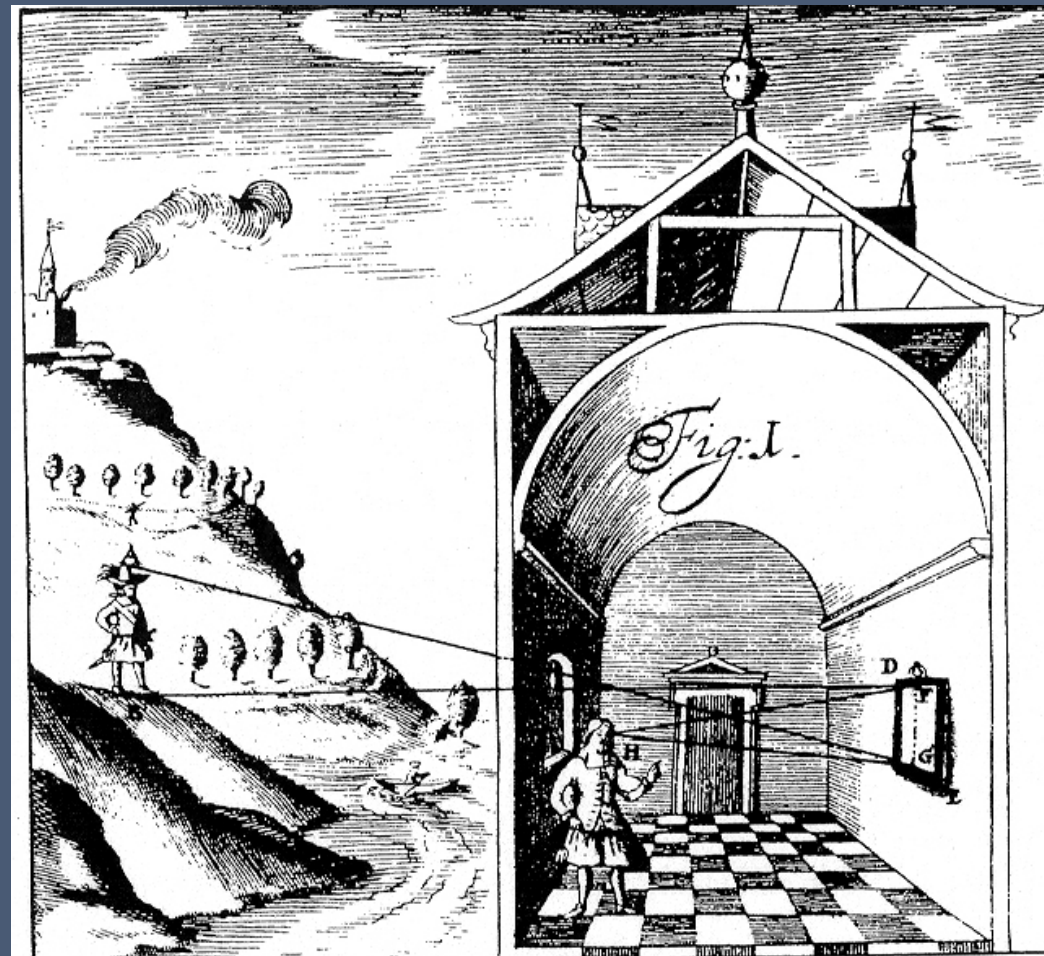


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Camera obscura in Magia Universalis by Gaspar Schott, 1657

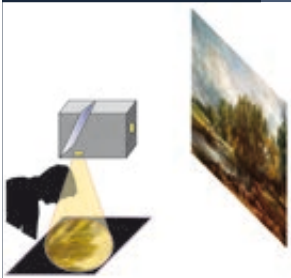


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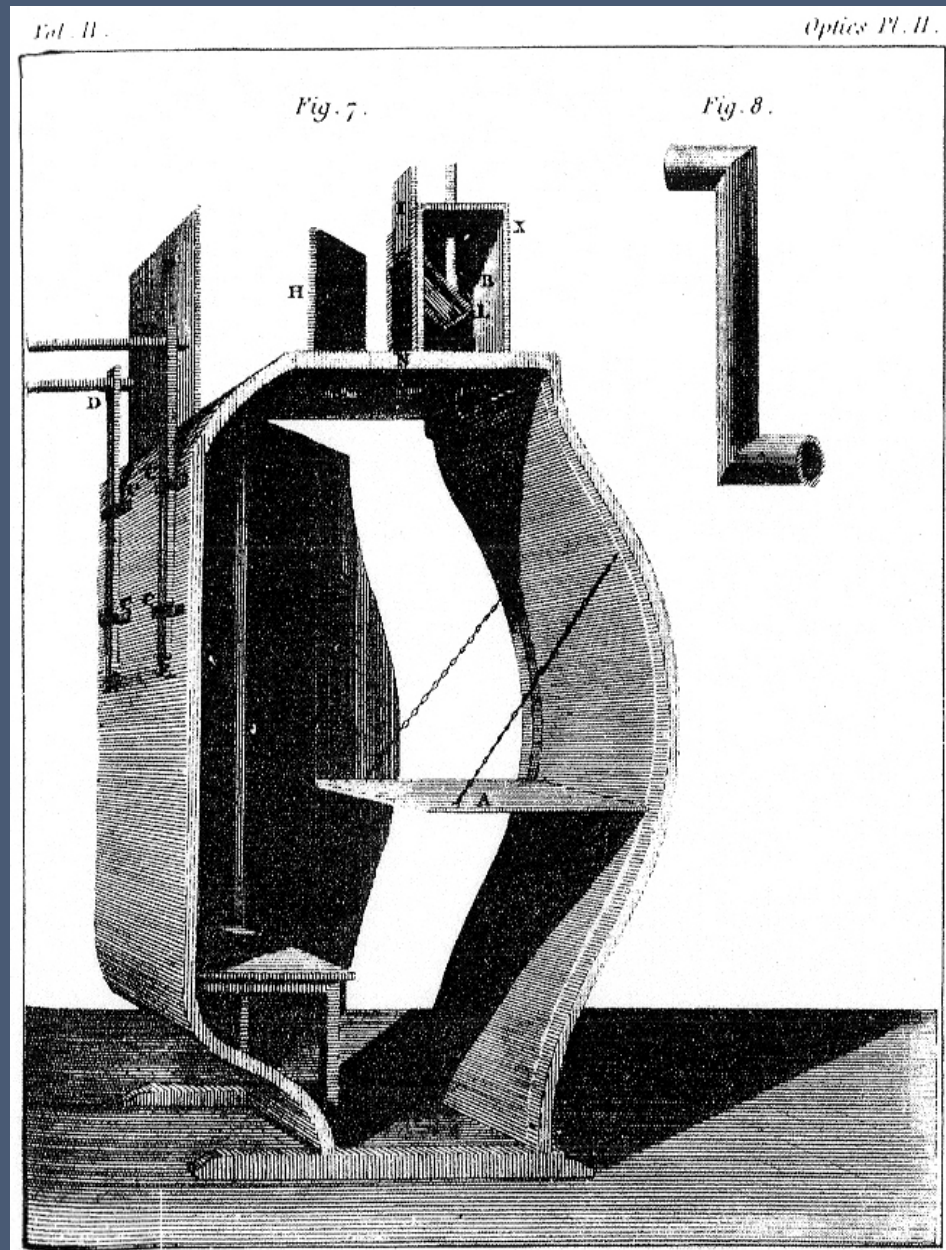


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Camera obscura chair type,
W. Jacob's Gravesande, 1711

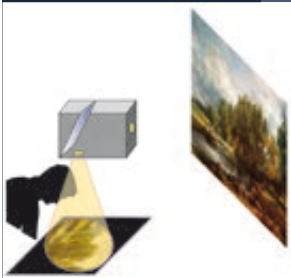


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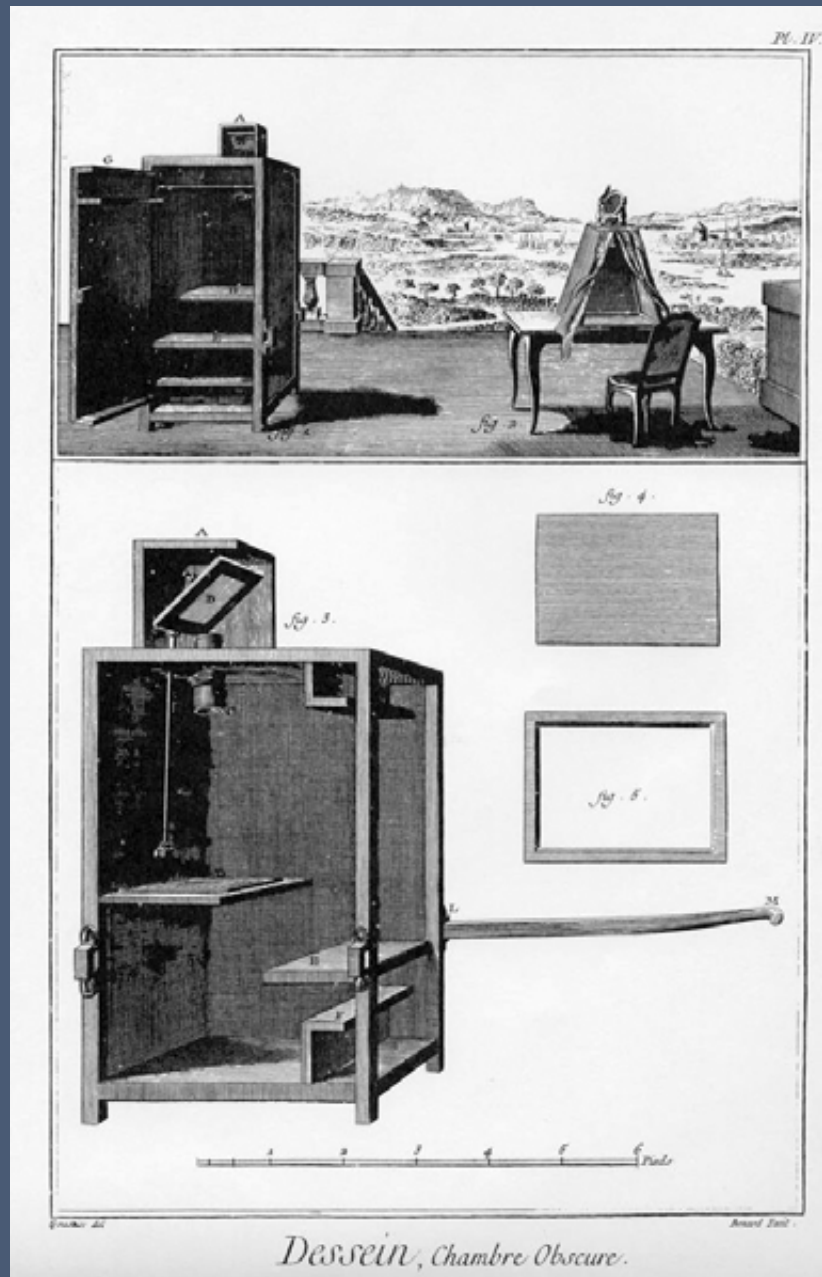


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Cameras obscura , Enciclopedia of
Diderot and D'Alembert, 1750

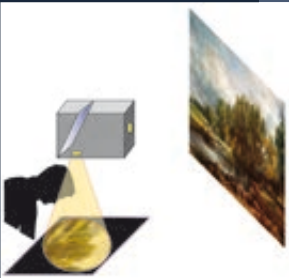


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Giant Camera obscura over image, San Francisco, USA

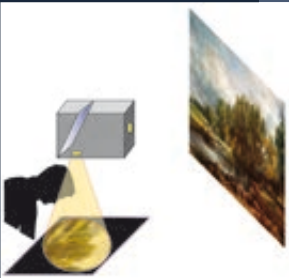


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Inside of a camera obscura

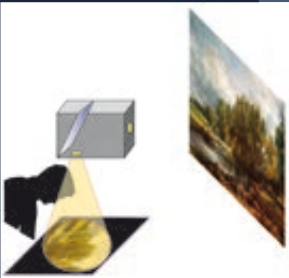


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Abelardo Morell, *Camera obscura: Manhattan South*, 2010

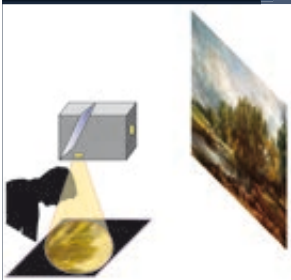


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Abelardo Morell,
Camera obscura: View of the Brooklyn Bridge in Bedroom, 2009

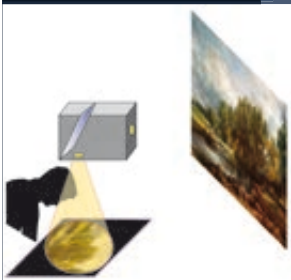


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Abelardo Morell, *Camera obscura: View of the Manhattan Bridge*, 2010

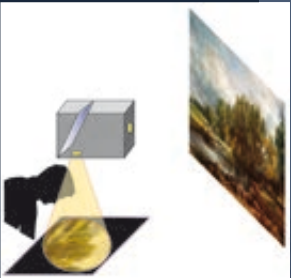


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Camera with lens. David Hockney's still life

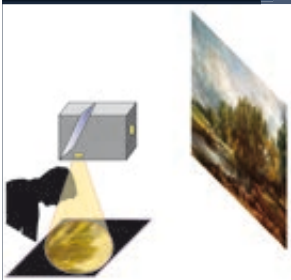


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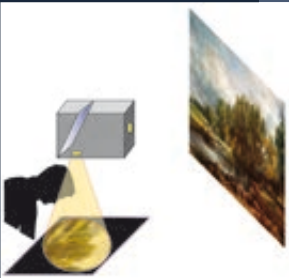


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Chardin's still life, middle 18th Century

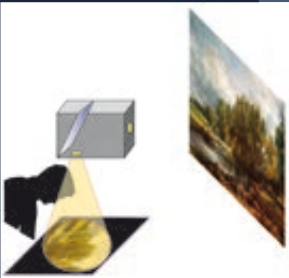


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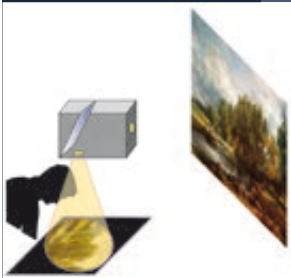


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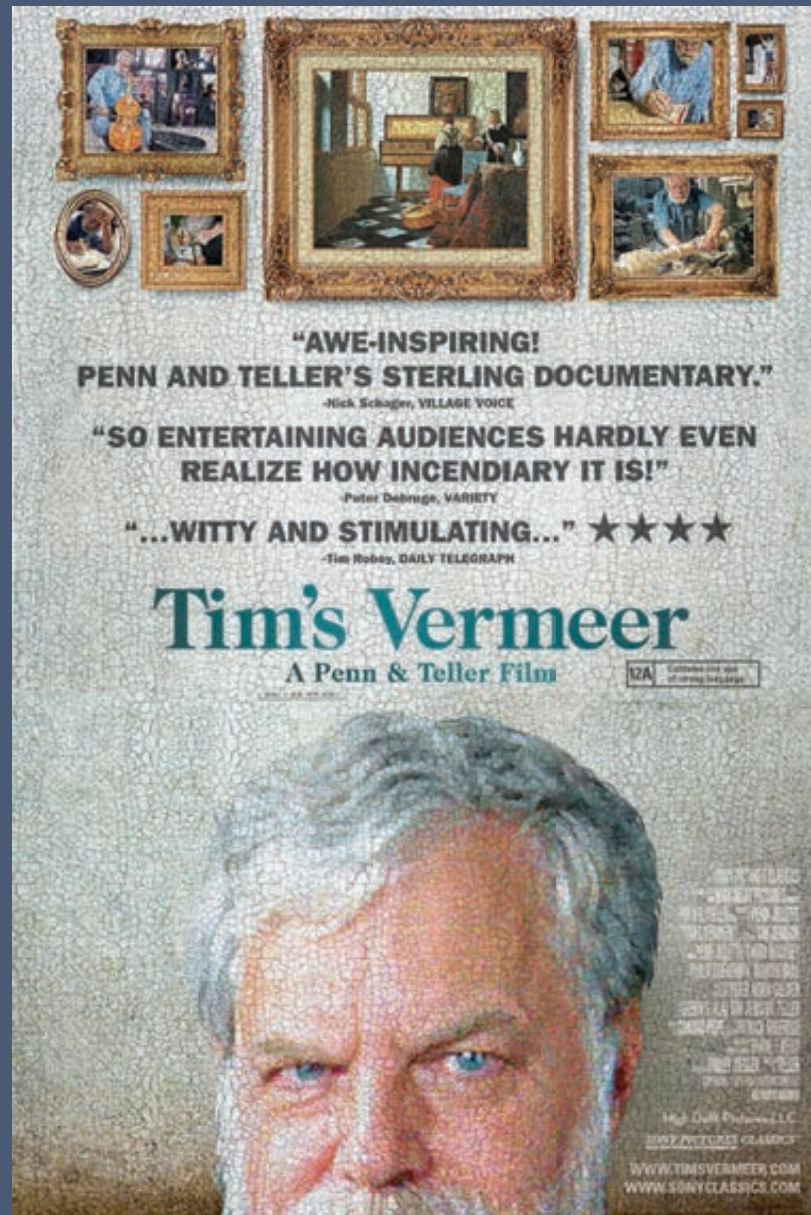


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Tim's Vermeer, 2013

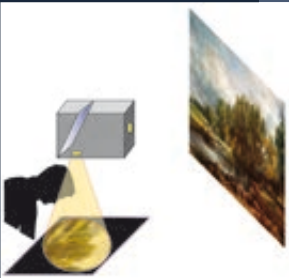


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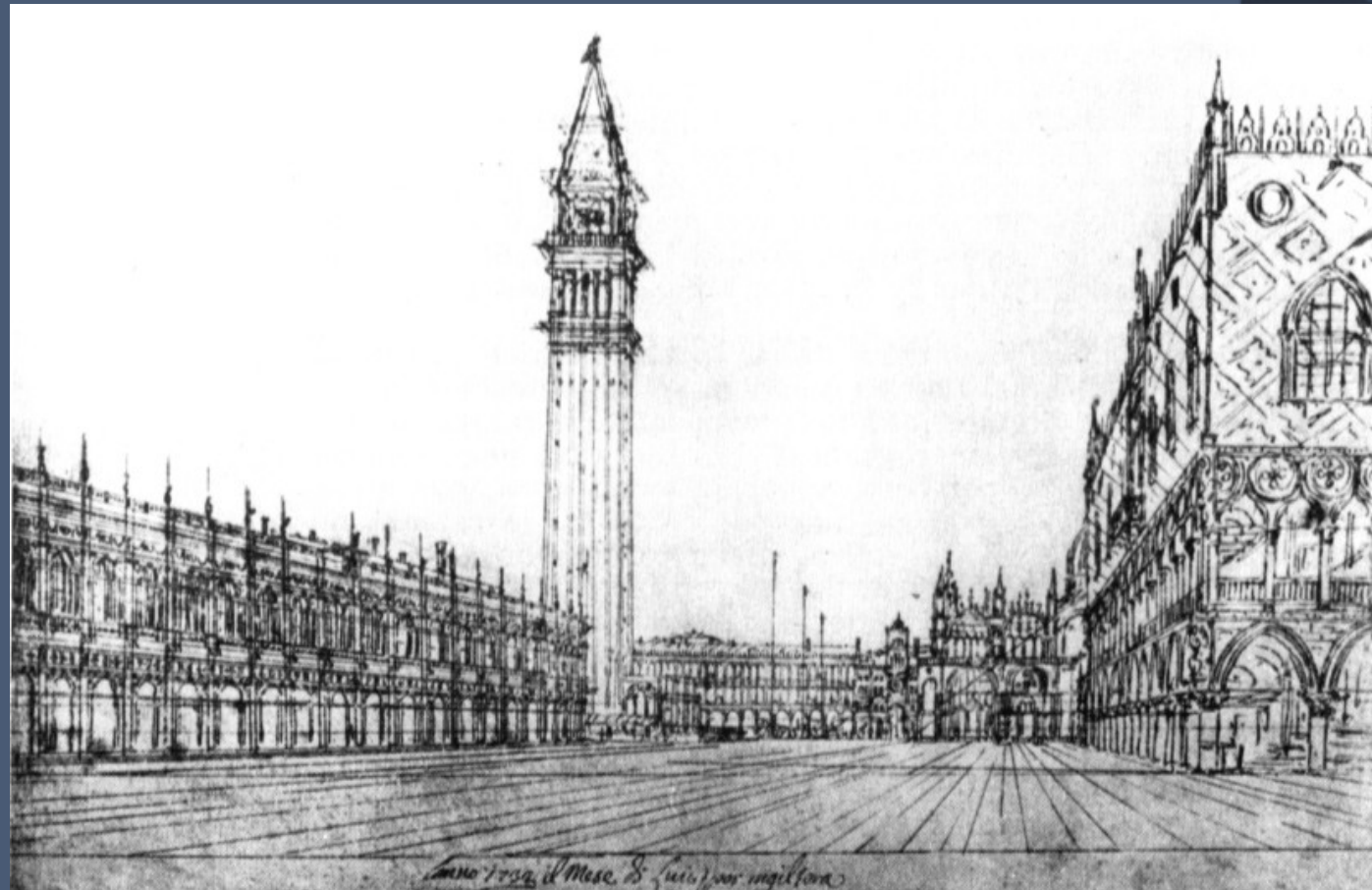


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Canaletto's drawings made with camera obscura, 1735-40

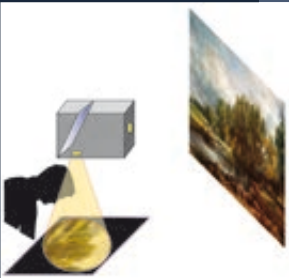


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The Piazzetta , Canaletto, 1725

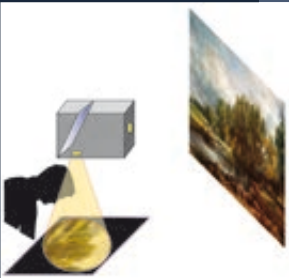


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The Piazzetta, looking toward the Clock Tower by Canaletto, 1726-1728

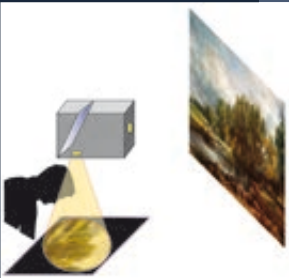


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Iván Albalade at the Museum of cinema , Girona, Spain

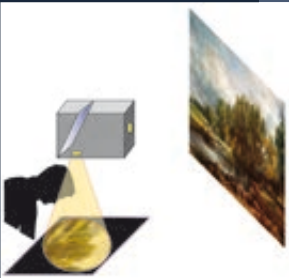


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Mariano Sánchez, *Channel of Trocadero from Puntales*, 1782

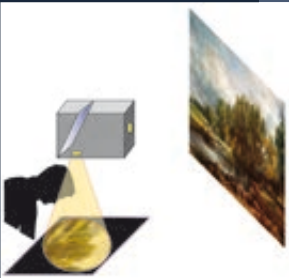


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Mariano Sánchez, *Suazo bridge*, 1782

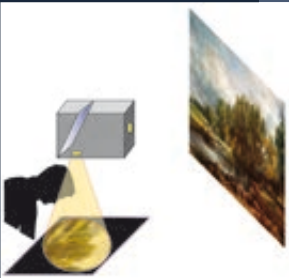


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Mariano Sánchez, *Málaga*, 1785

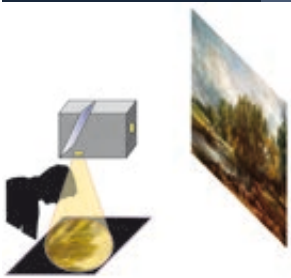


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Camera obscura, 18th century



Tent camera obscura, 18th century

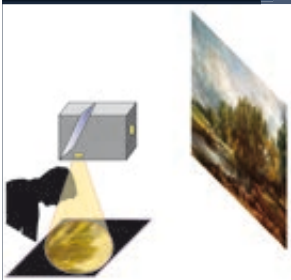


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Replica camera obscura, 18th century



Replica tent camera obscura, 18th century

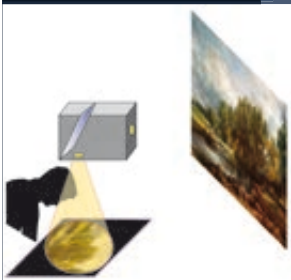


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Mariano Sánchez, *Castle of Alicante*, 1785

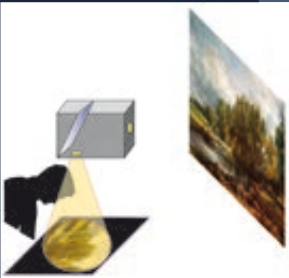


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Using the tent camera

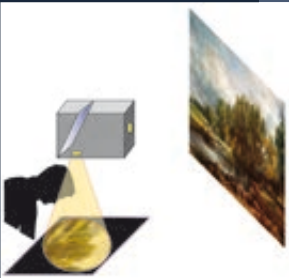


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Image behind camera



Image over tent camera

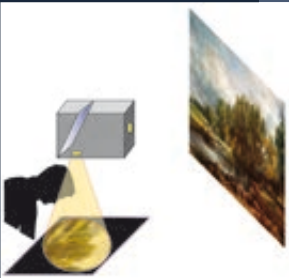


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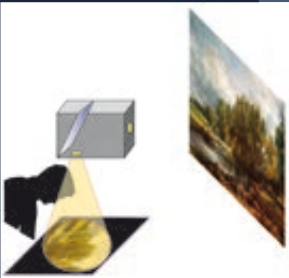


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Drawing made with tent camera

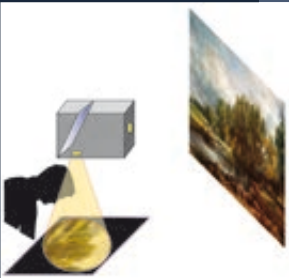


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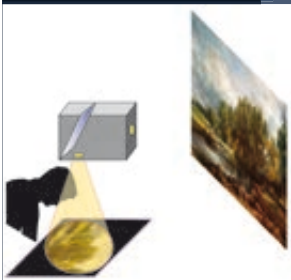


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Tracing drawings to the picture

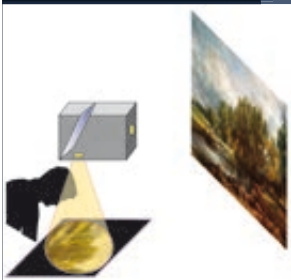


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First layer in painting process

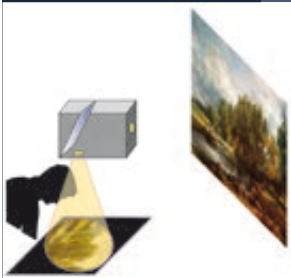


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Final result of the painting





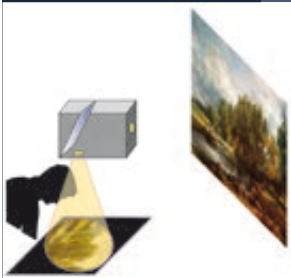


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Iván Albalate, *after Mariano Sánchez*.

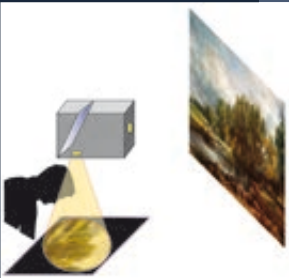


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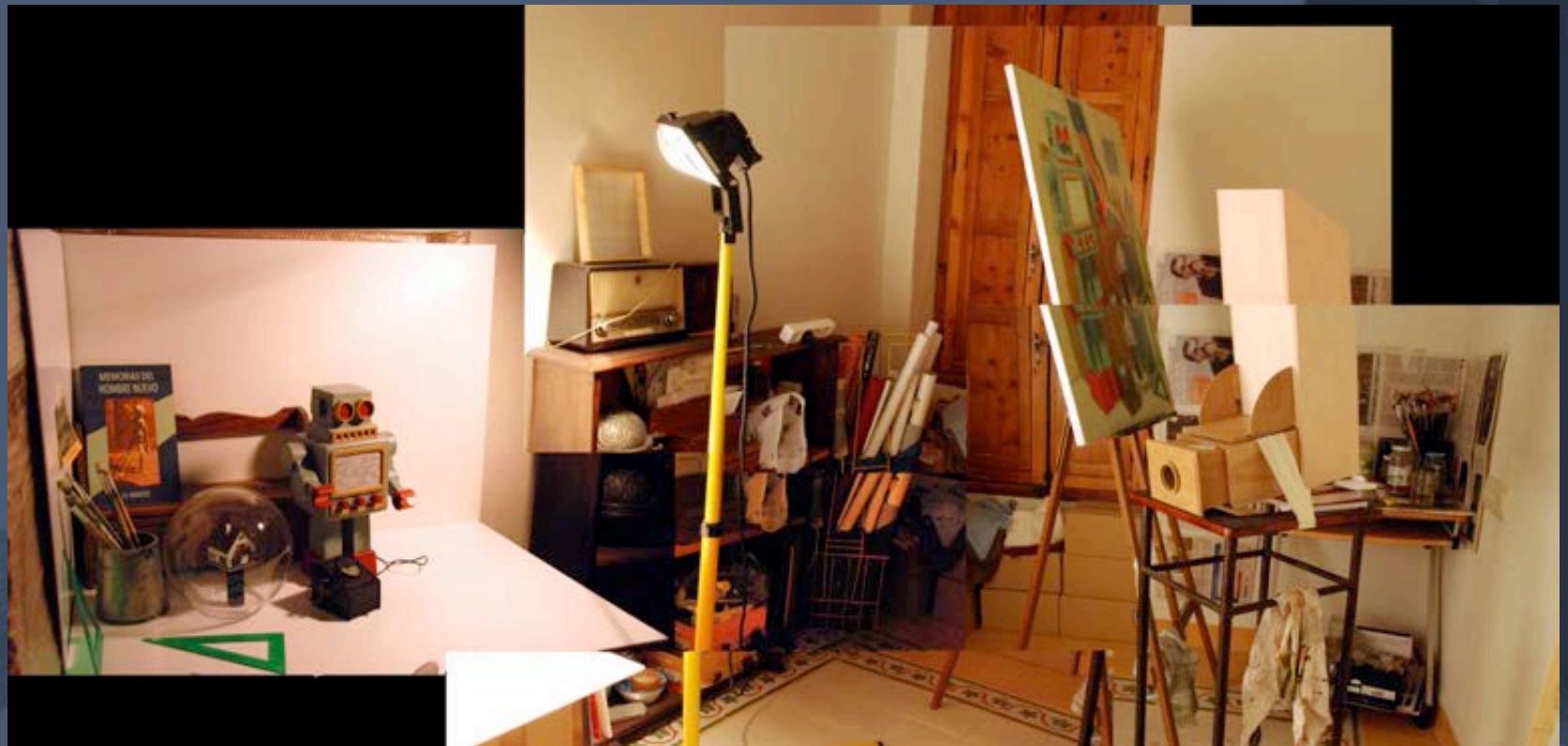


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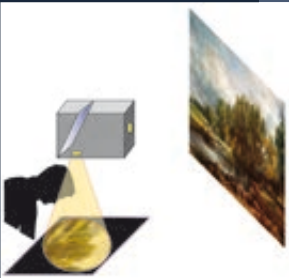


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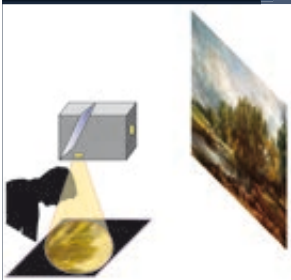


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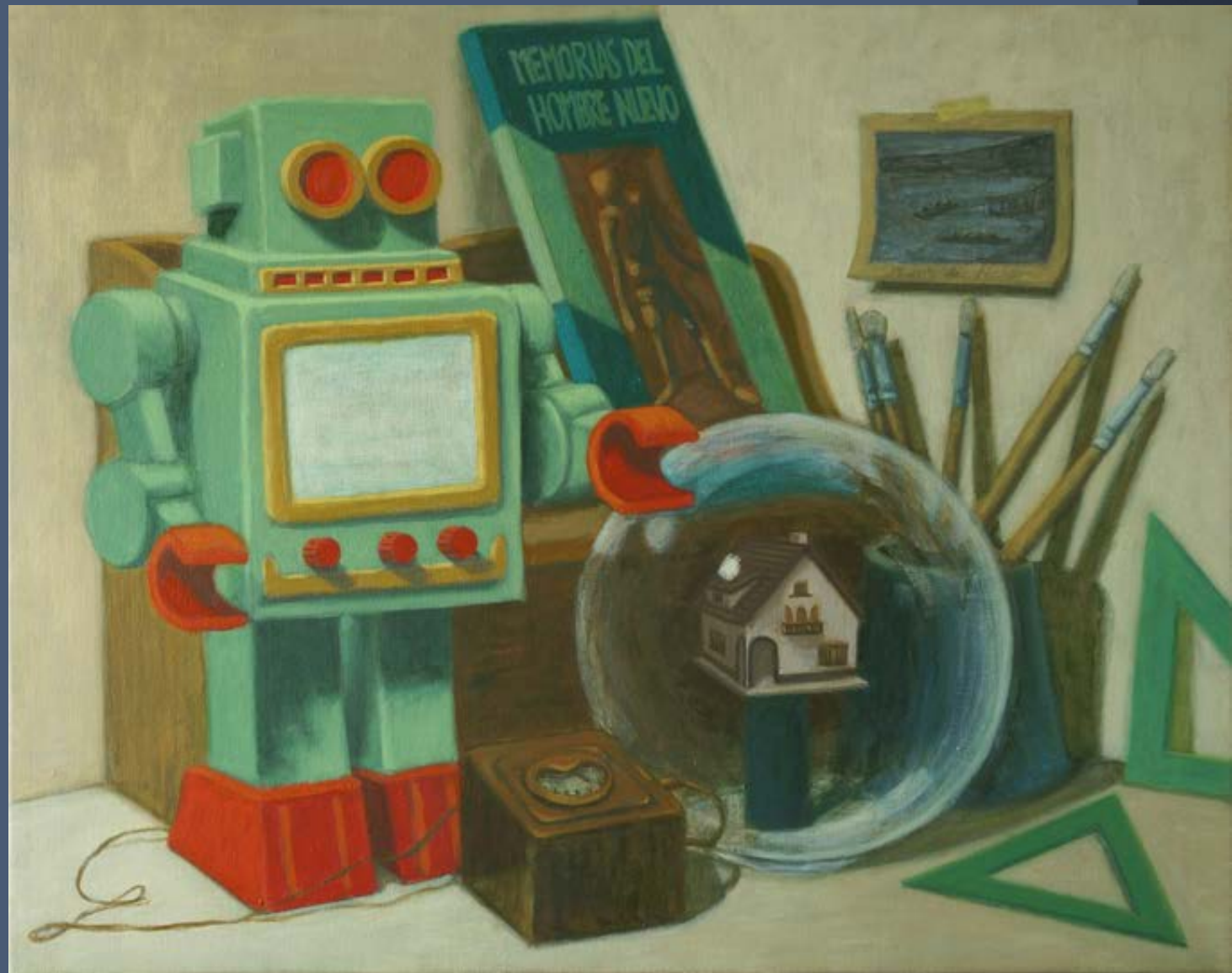


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José Vicente Martín, *Memories of the New Man*, 2014. Oil on canvas.

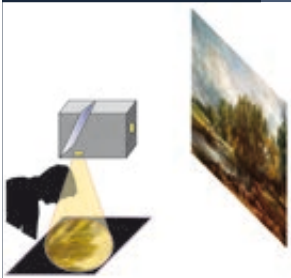


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Franz Hals, *Boy drinking*, 1626-1628

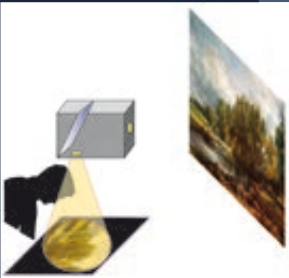


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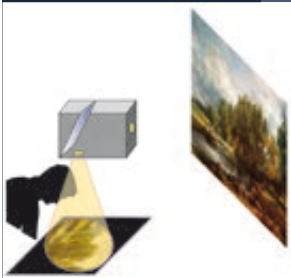


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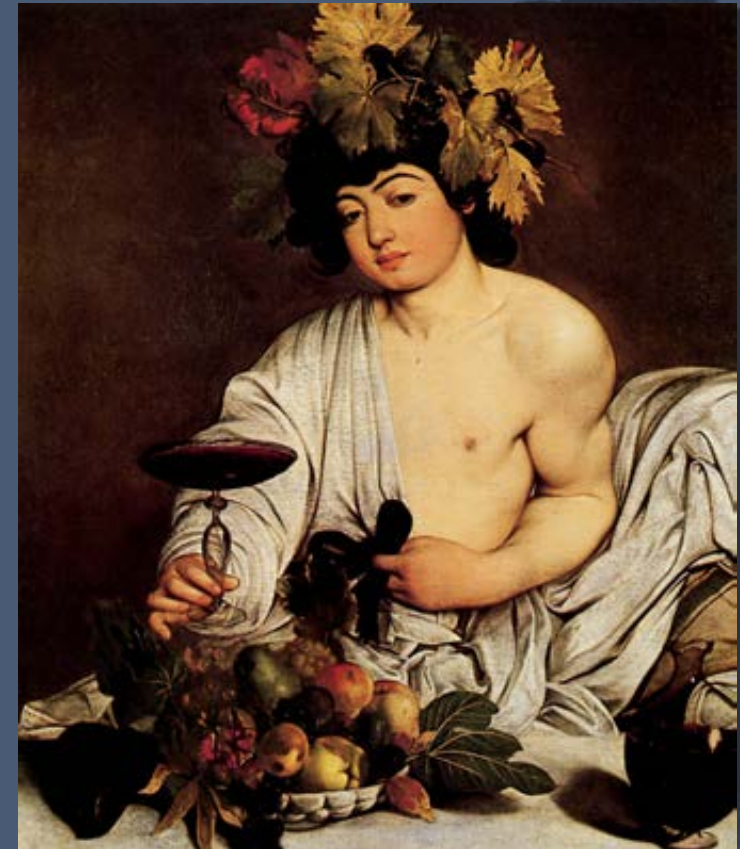


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Caravaggio, *Baco*. 1595-96

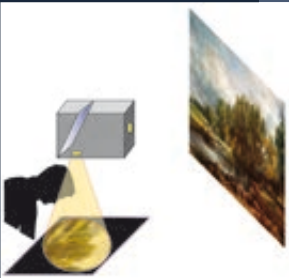


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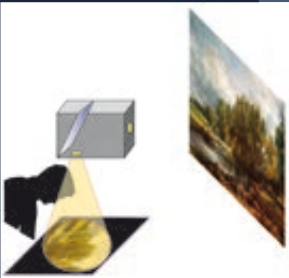


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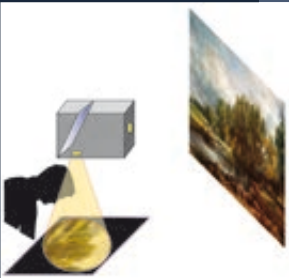


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