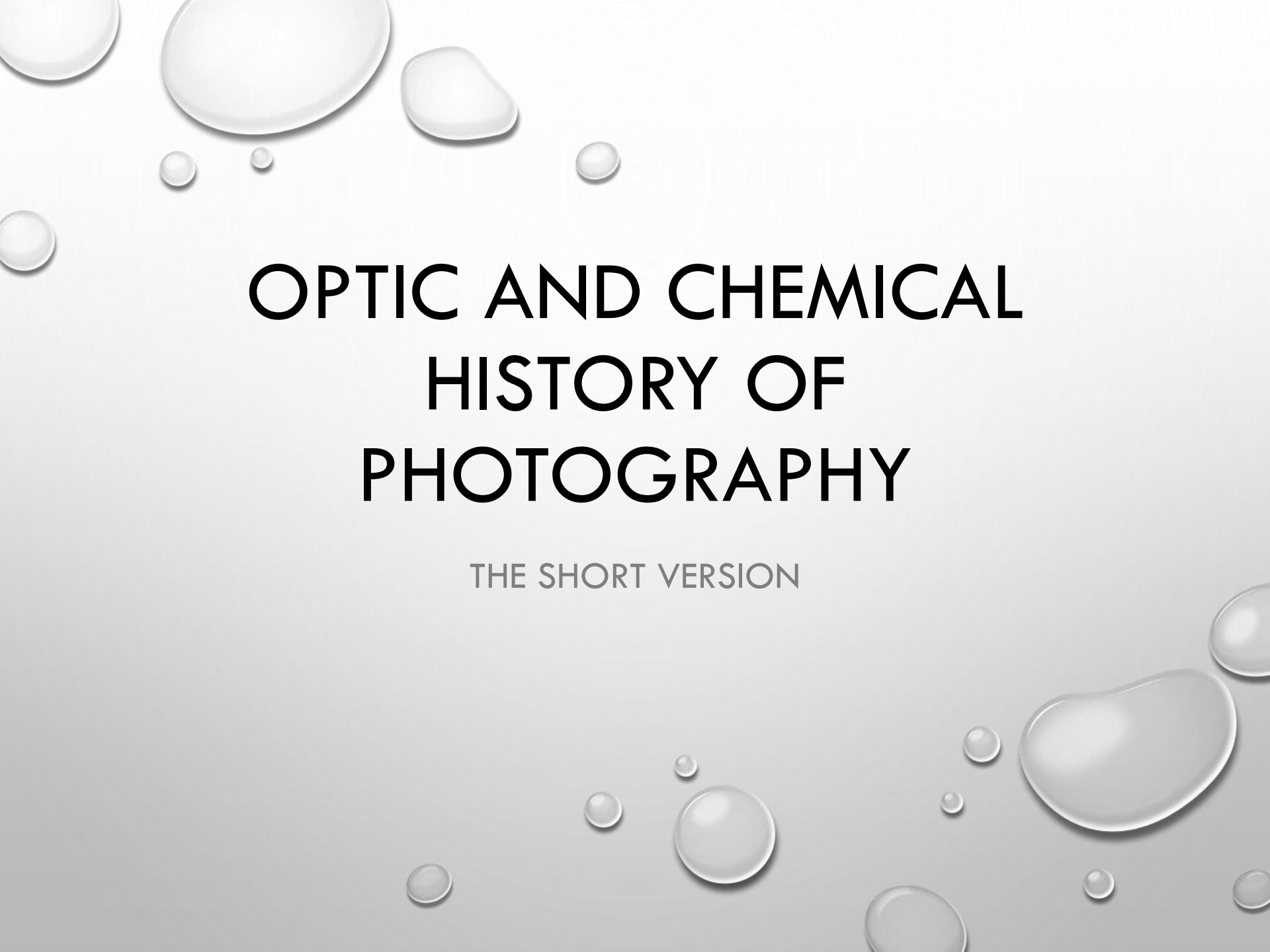


# WORLD'S FIRST PHOTO



Joseph Nicephore Niepce, 1827

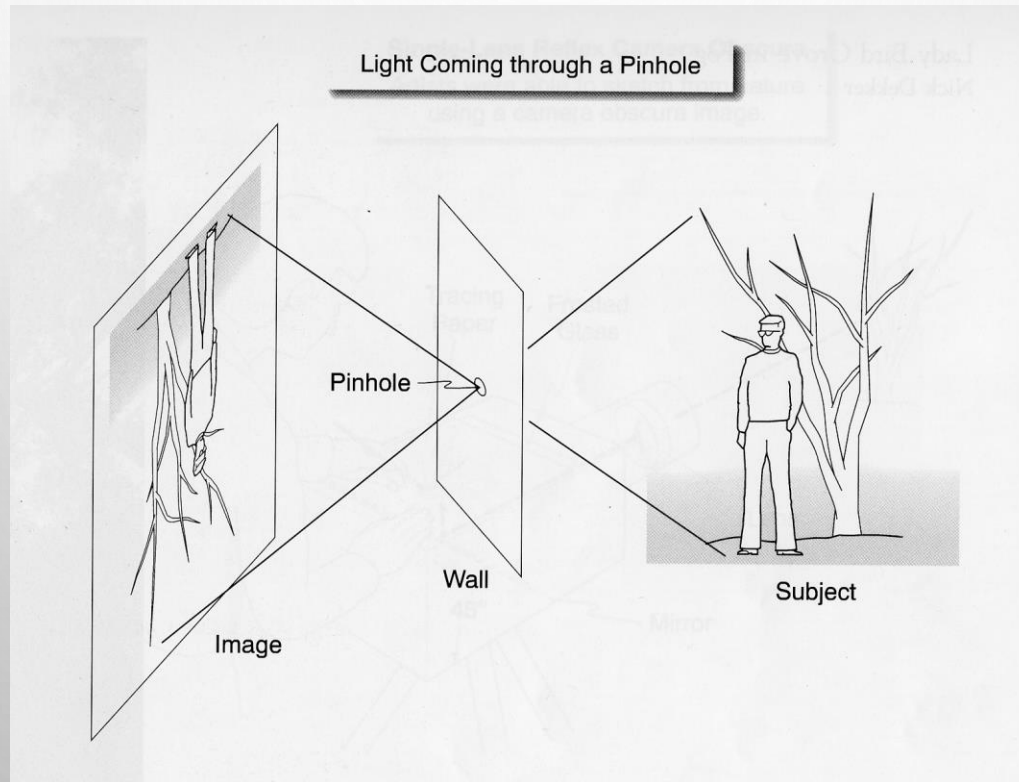
The background of the slide is a light gray gradient. It is decorated with numerous water droplets of various sizes, some of which are in sharp focus while others are blurred, creating a sense of depth. The droplets are scattered across the frame, with a higher concentration in the top-left and bottom-right corners.

# OPTIC AND CHEMICAL HISTORY OF PHOTOGRAPHY

THE SHORT VERSION

# CAMERA OBSCURA

- CAMERA – “ROOM”
- OBSCURA – “DARK”
- INVERSE SQUARE LAW

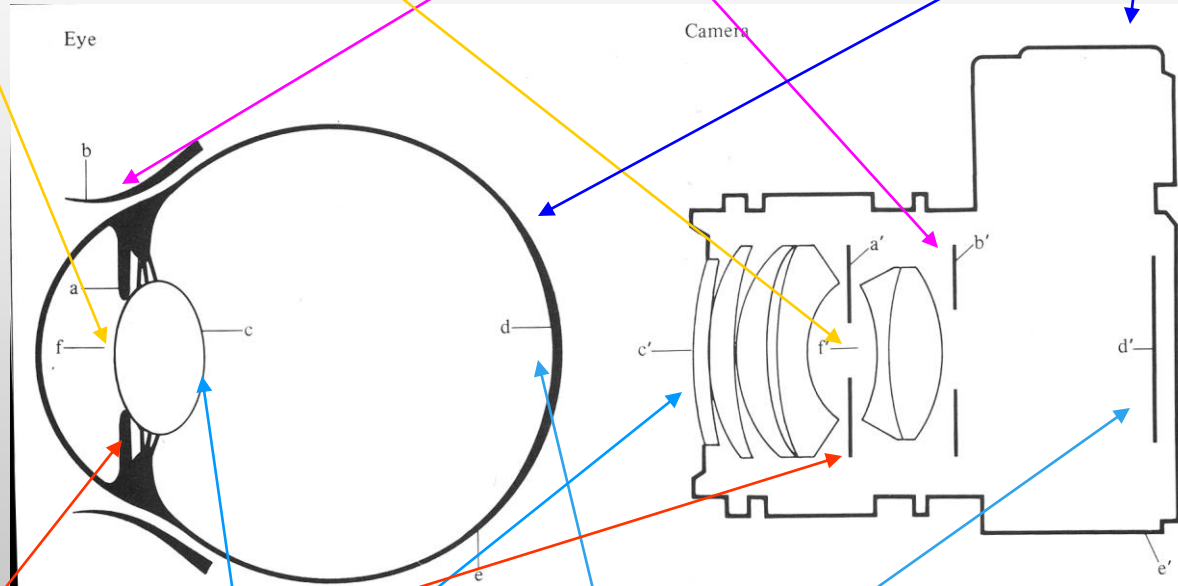


## The Camera/Eye Comparison

Aperture =  
Pupil

Shutter =  
Eyelashes

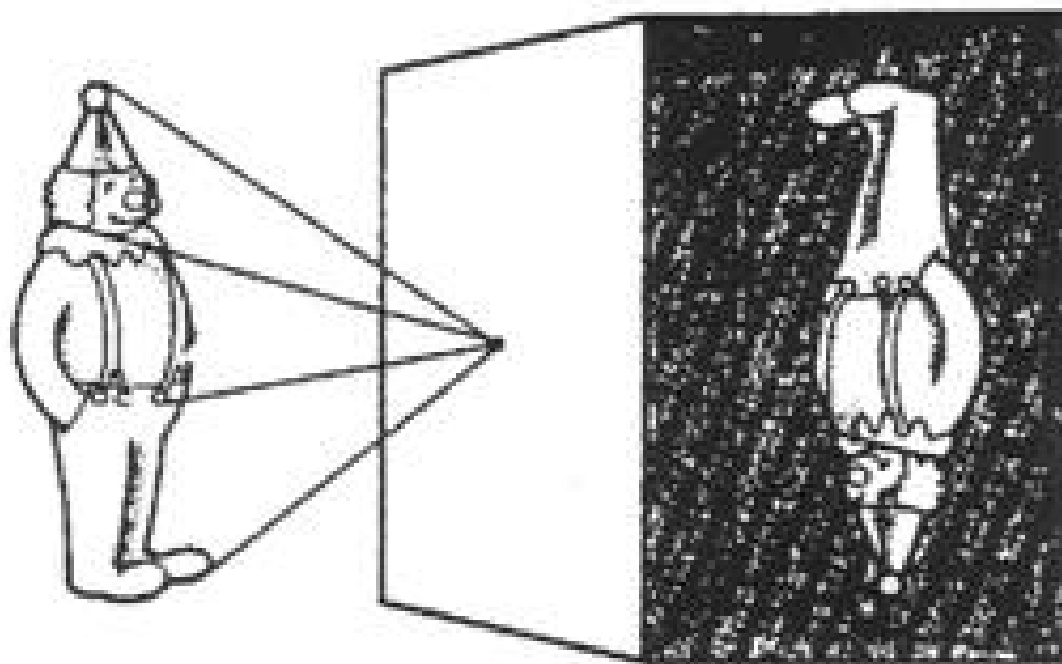
Camera body =  
Eyeball



Iris diaphragm =  
Iris

Lens

Film =  
Light sensitive  
retina



ภาพที่ 1 หลักการเกิดภาพในกล้องรูเข็ม

# FIRST DISCOVERIES

- MOZI, CHINESE PHILOSOPHER 5<sup>TH</sup> CENTURY BC
- ARISTOTLE 4<sup>TH</sup> CENTURY BC
- ALHAZEN AND CHINESE SCIENTIST SHEN KUO 11<sup>TH</sup> CENTURY AD – FIRST TO PROJECT IMAGE ONTO A SURFACE
- GERMAN ASTRONOMER JOHANNES KEPLER CAME UP WITH THE TERM “CAMERA OBSCURA” 1604 AD



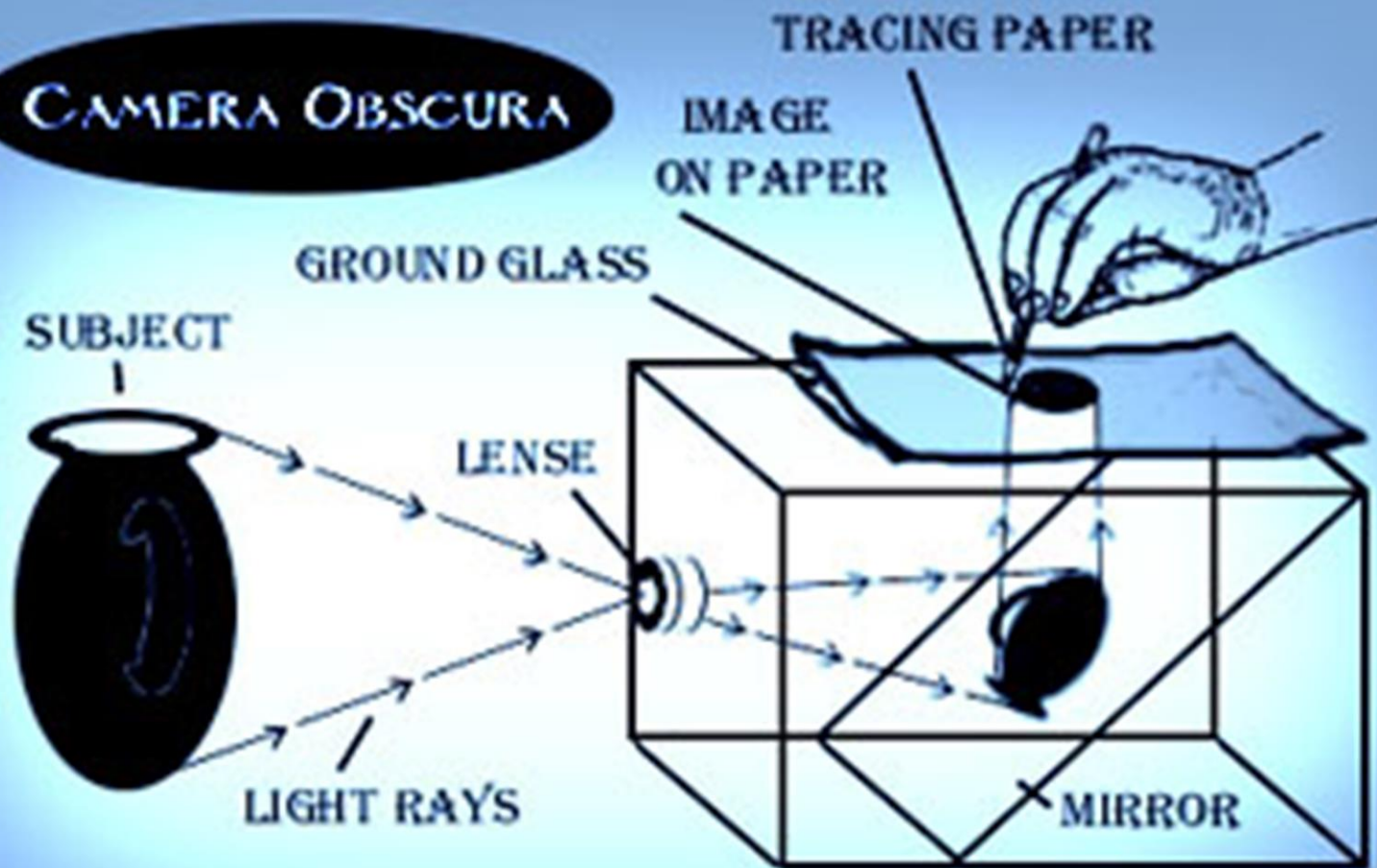


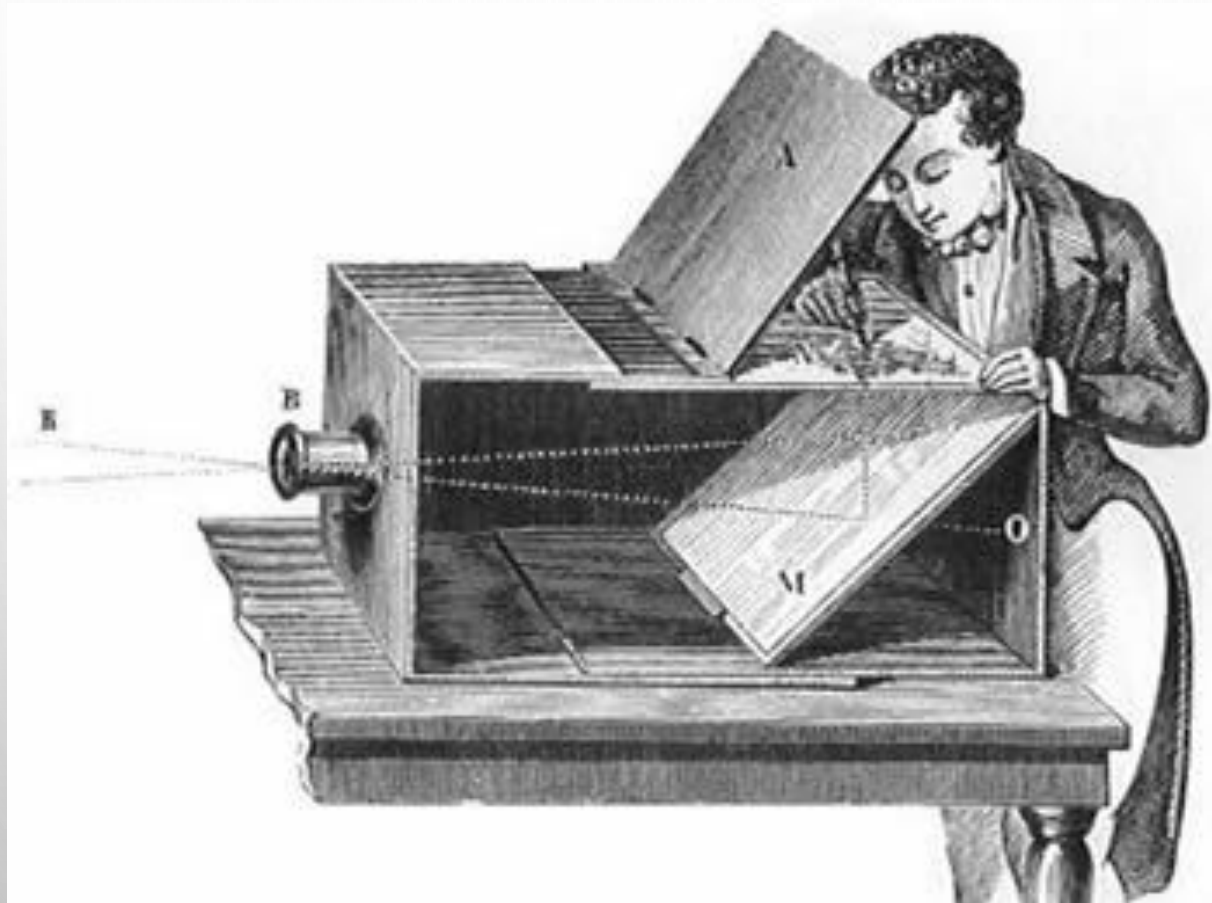


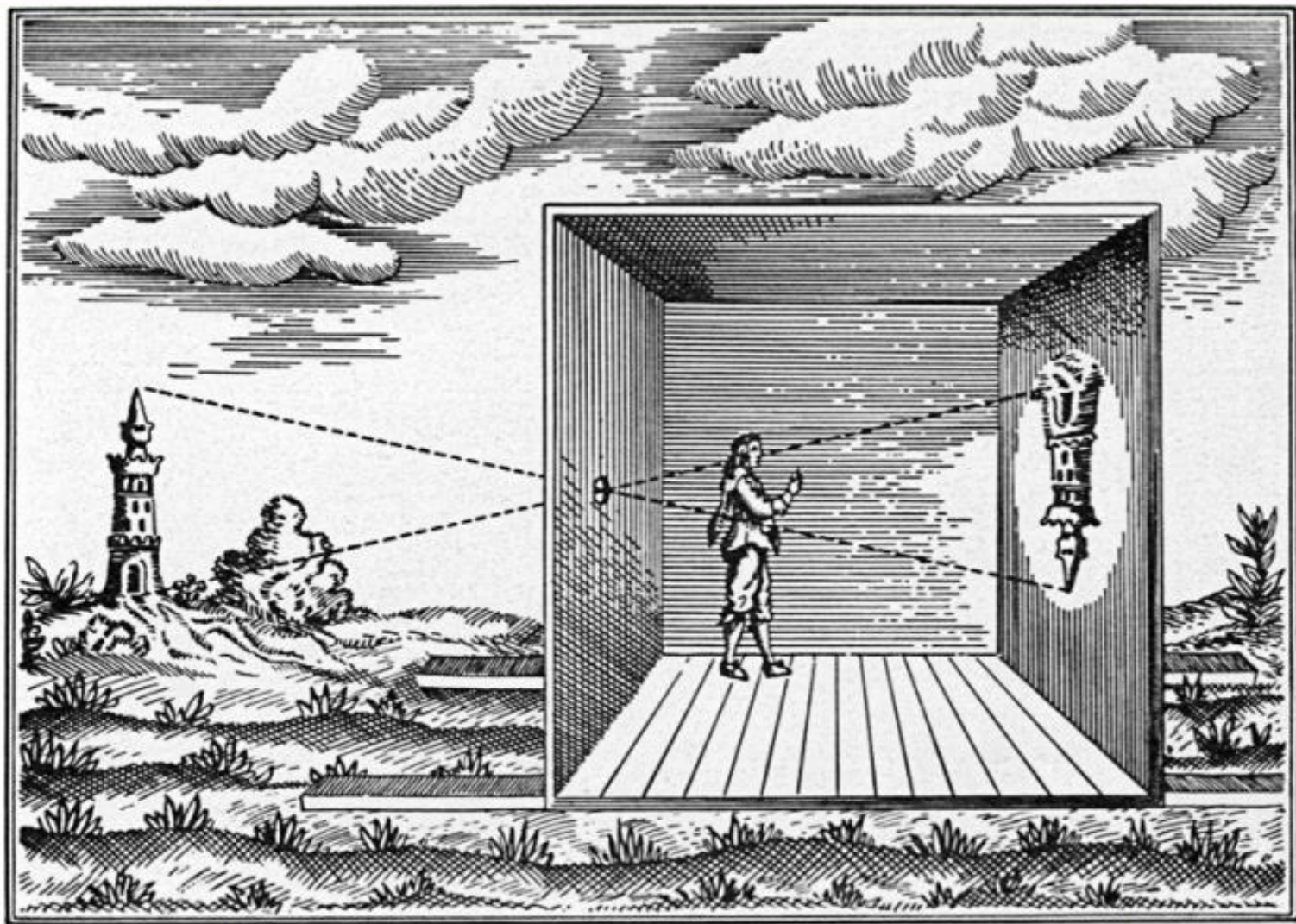




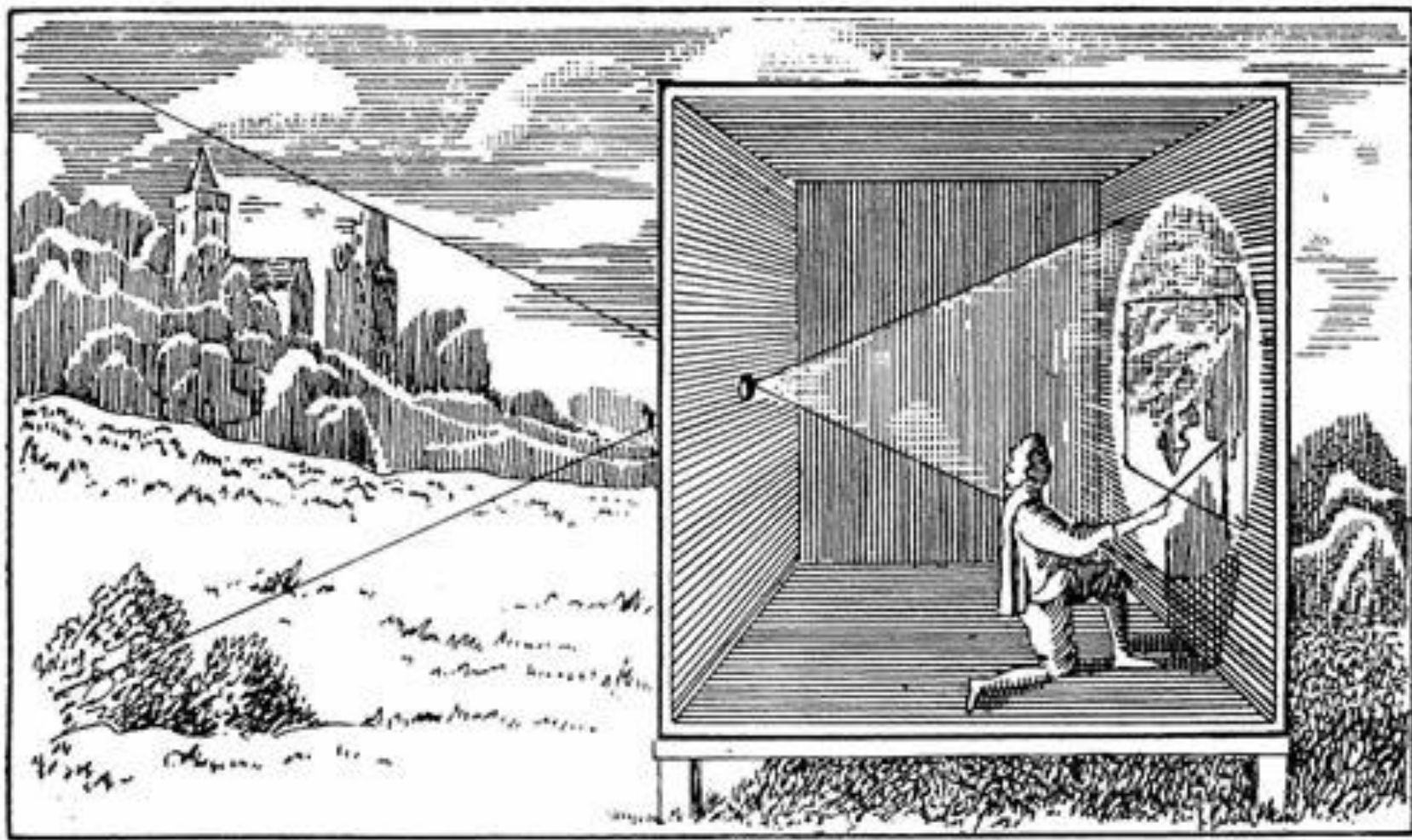
# CAMERA OBSCURA





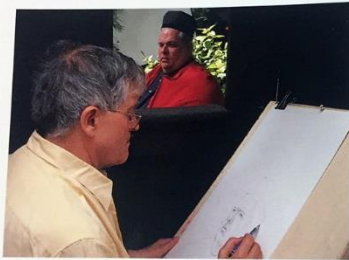
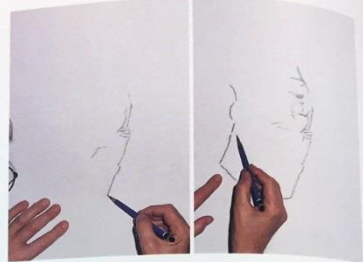












These photographs show the process in more detail. At the top left you can see the projection on the paper as I make my initial marks, two stages of which you can see top right. After making the measurements, I take down the paper and complete the drawing from life (the finished portrait is opposite). The subject, who sits outside throughout, can see very little of what is going on in the room. He is not even aware that the mirror is there (*above and left*).

I have been told by some art historians that there are written accounts of similar set-ups in the fifteenth and sixteenth centuries, but as yet I have not located them.



David Hockney



# JOHANN H. SCHULZE AND CARL WILHELM SCHEELE



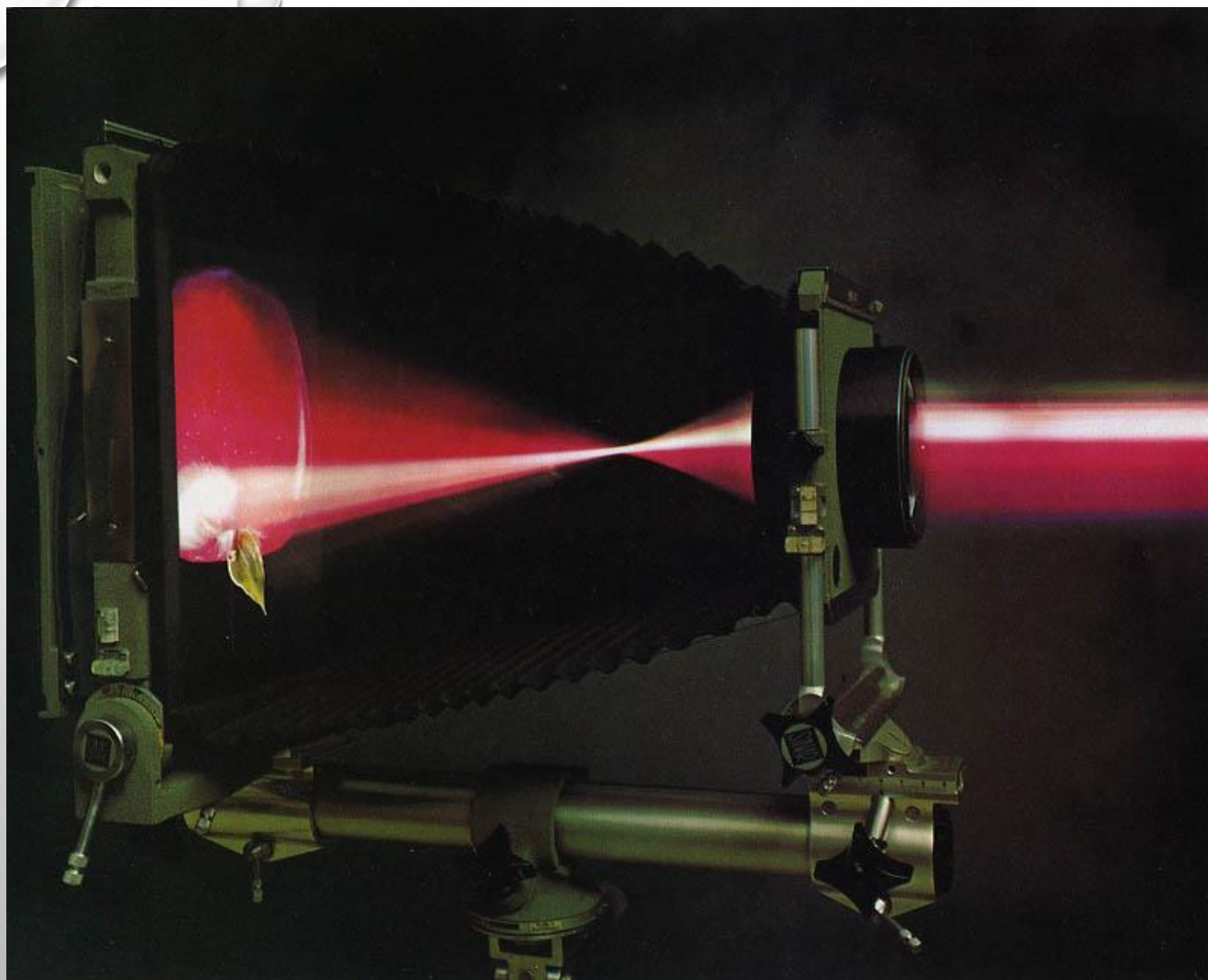
Library of Congress

FOUND OUT THAT  
SILVER TURNED BLACK  
WITH LIGHT EXPOSURE

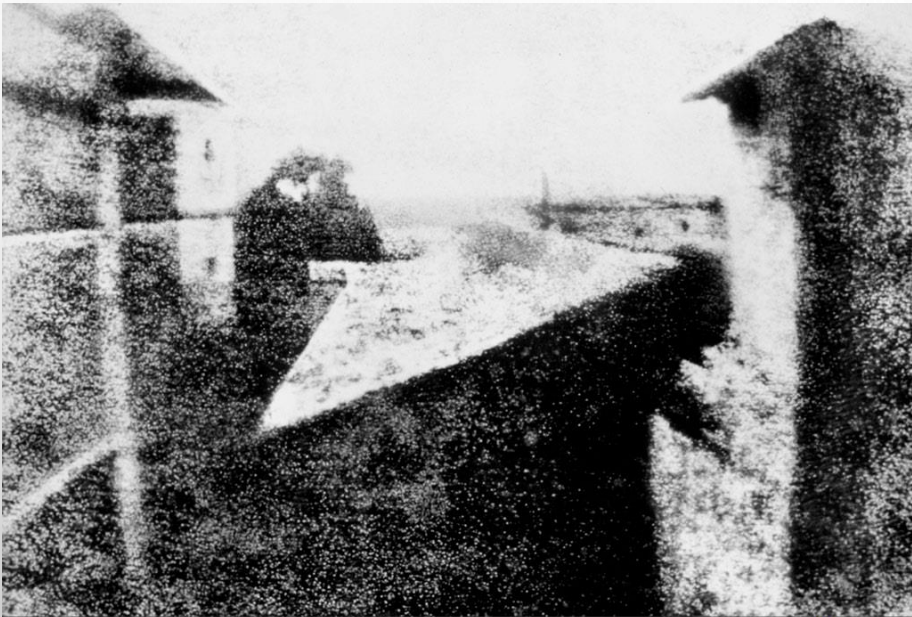
# WORLD'S FIRST PHOTO



Joseph Nicephore Niepce, 1827



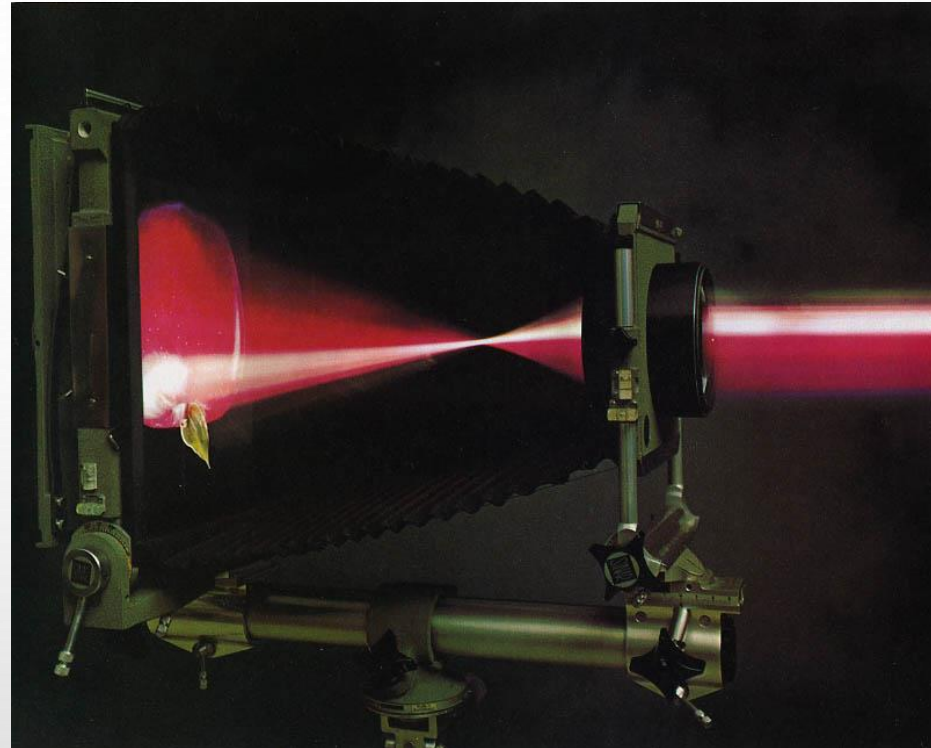




Photograph by Nicéphore Niépce

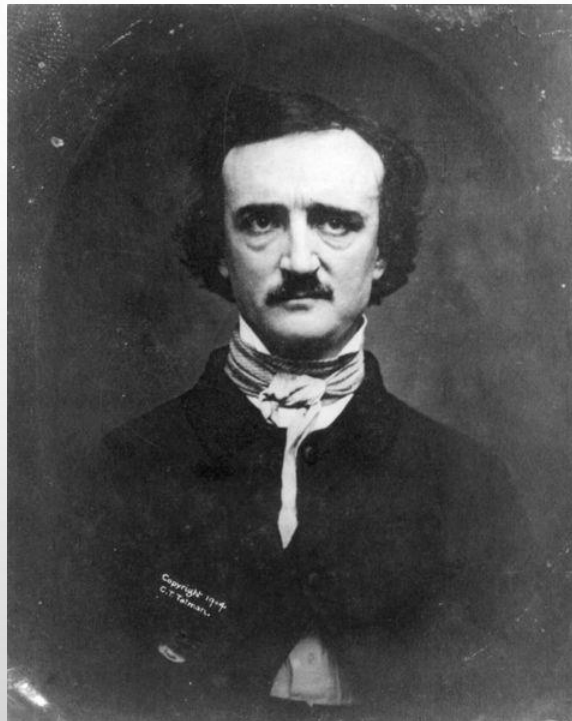
 NATIONAL  
GEOGRAPHIC

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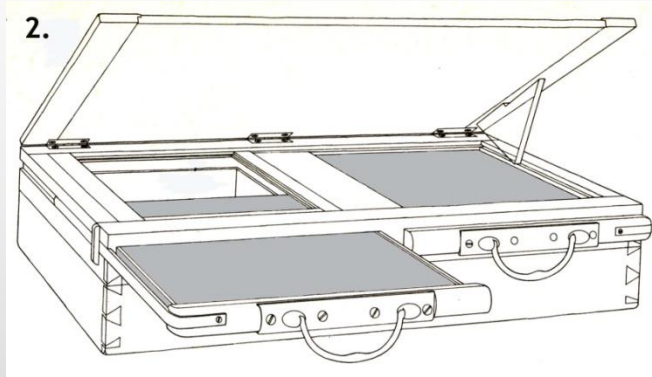
# LOUIS DAGUERRE (FRENCH) DAGUERREOTYPE CAMERA

- ON METAL PLATES
- GREAT CLARITY
- ONLY ONE COPY  
SINCE THERE IS NO NEGATIVE
- TOXIC
- INVENTOR: LOUIS DAGUERRE

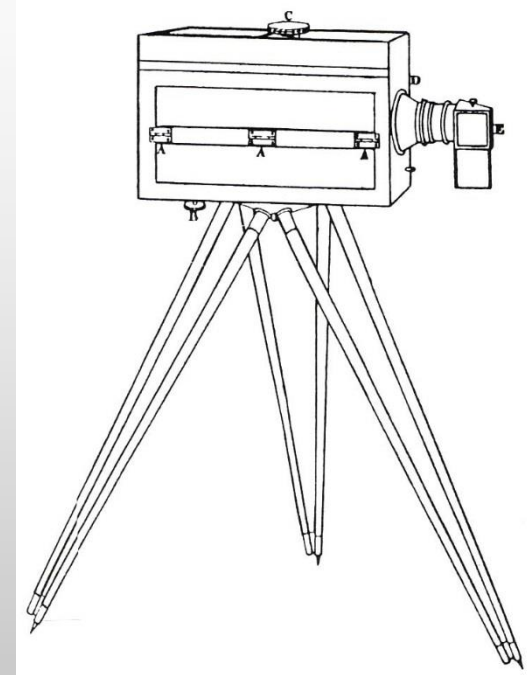




Polishing & Buffing  
the Photographic  
Plate

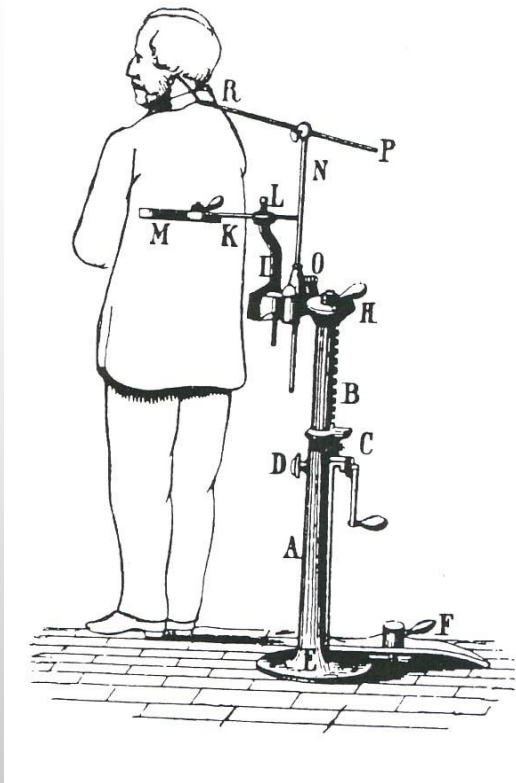


Sensitizing the Photographic Plate  
The polished plate is sensitized by  
exposing it to iodine and bromine  
fumes

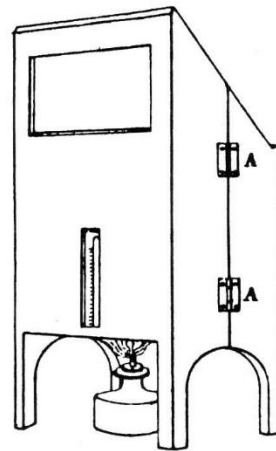


The sensitized plate is inserted  
into a light-proof holder with a  
protective slide placed inside  
the camera



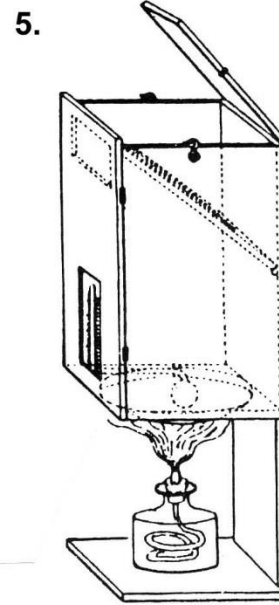


4. Taking the likeness  
The subject is place in front  
of the camera

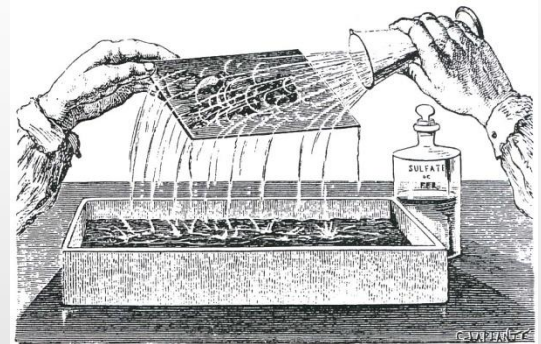


5.

5. Developing the Image  
The image is "brought out" by  
suspending the photographic  
plate over a dish of mercury  
inside a fuming box.



5.



6. Fixing the Image  
The photographic image is  
made permanent by  
bathing the photographic  
plate in hyposulphate of  
soda









# HENRY FOX TALBOT (BRITISH) CALOTYPE CAMERA



- DEVELOPS THE USE OF THE NEGATIVE CAN MAKE UNLIMITED COPIES OF IMAGE BECAUSE IT USES A NEGATIVE
- TALBOT IS CONSIDER THE FATHER OF MODERN PHOTOGRAPHY DUE TO NEGATIVE INVENTION
- SIR JOHN HERSHEL DEVELOPS FIXER TO MAKE IMAGE STAY

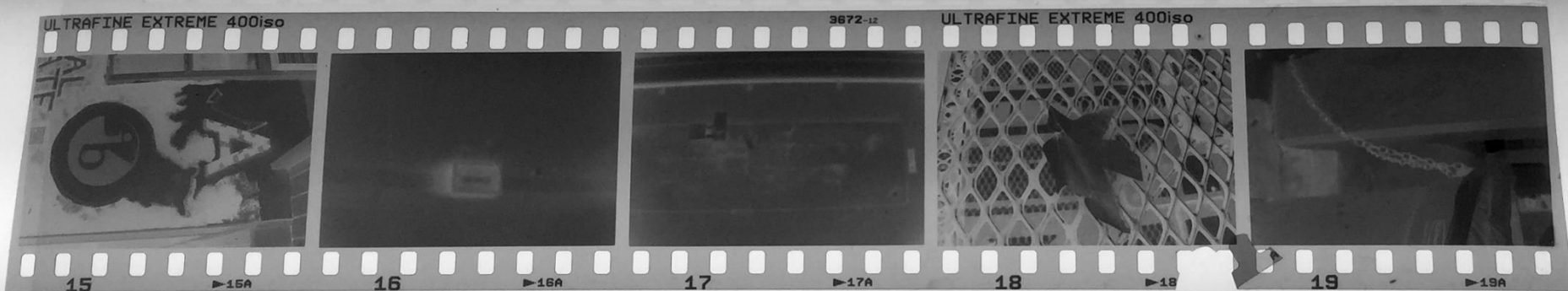
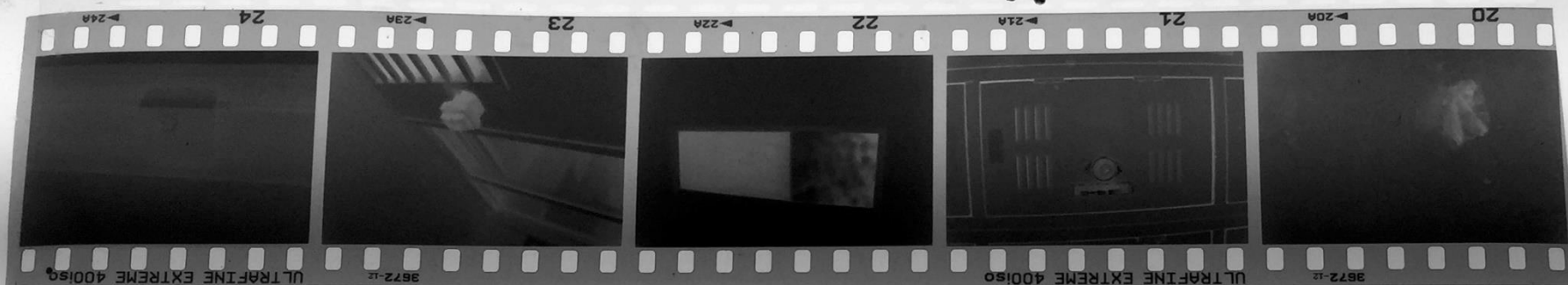
**CLEAR FILE**  
ArchivalCLASSIC

WWW.CLEARFILE.COM

Notes:

Format #12

Sebastian Kuran Shapes



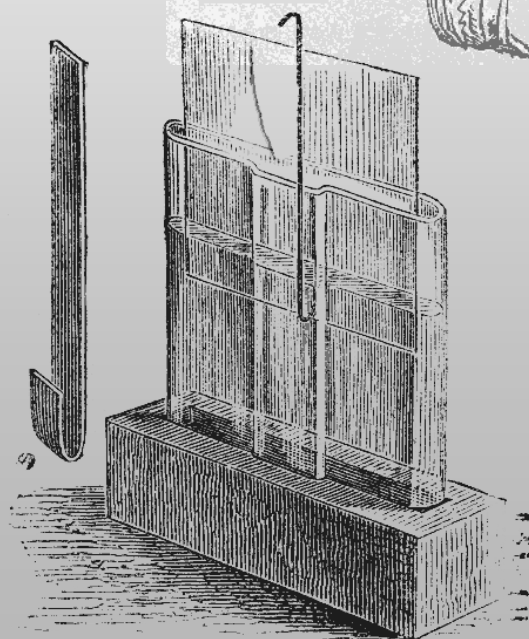
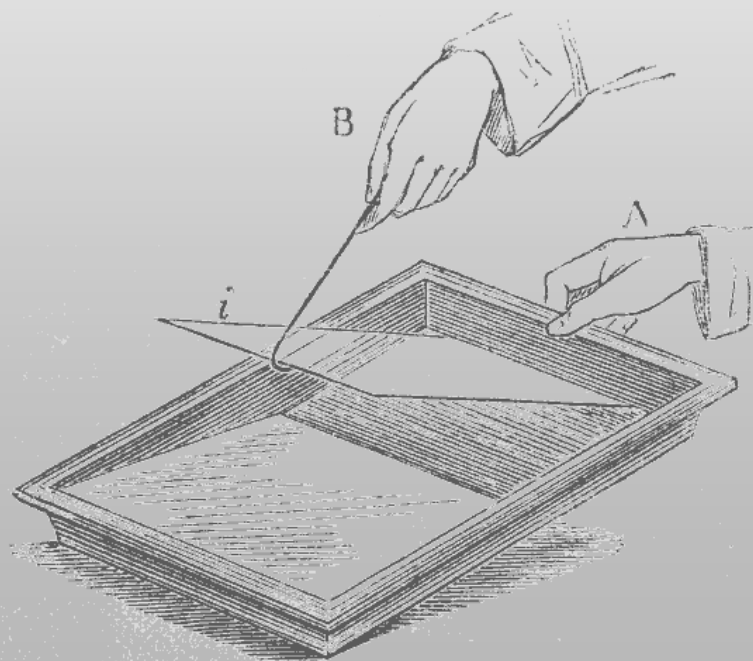
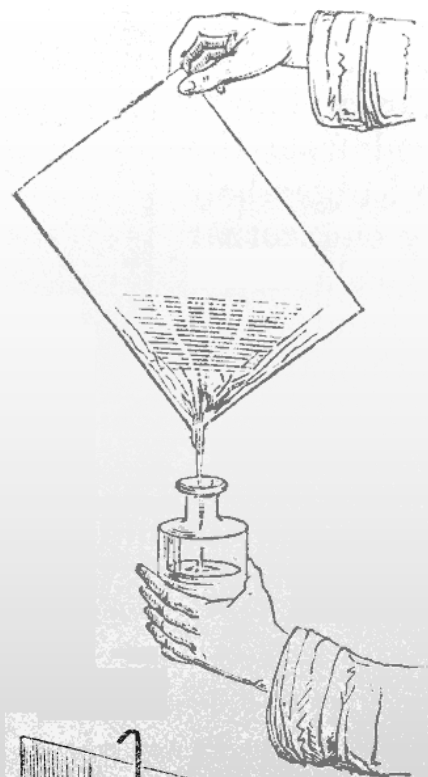
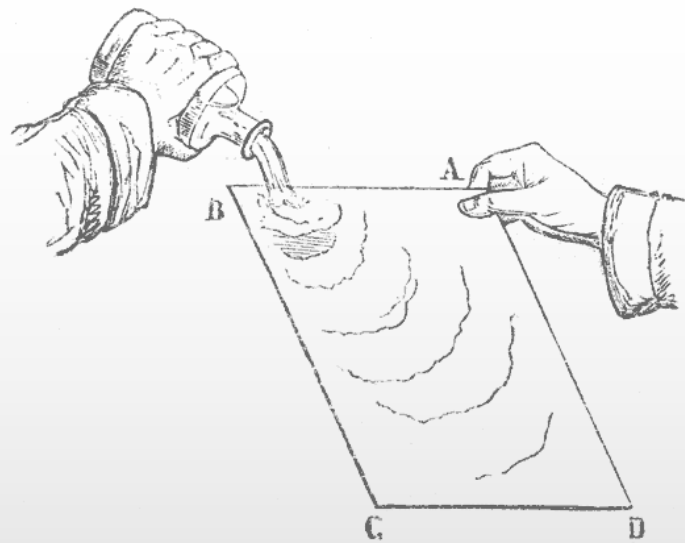
# FREDERICK SCOTT ARCHER (AMERICAN) WET PLATE CAMERA

## Glass Plate Negatives

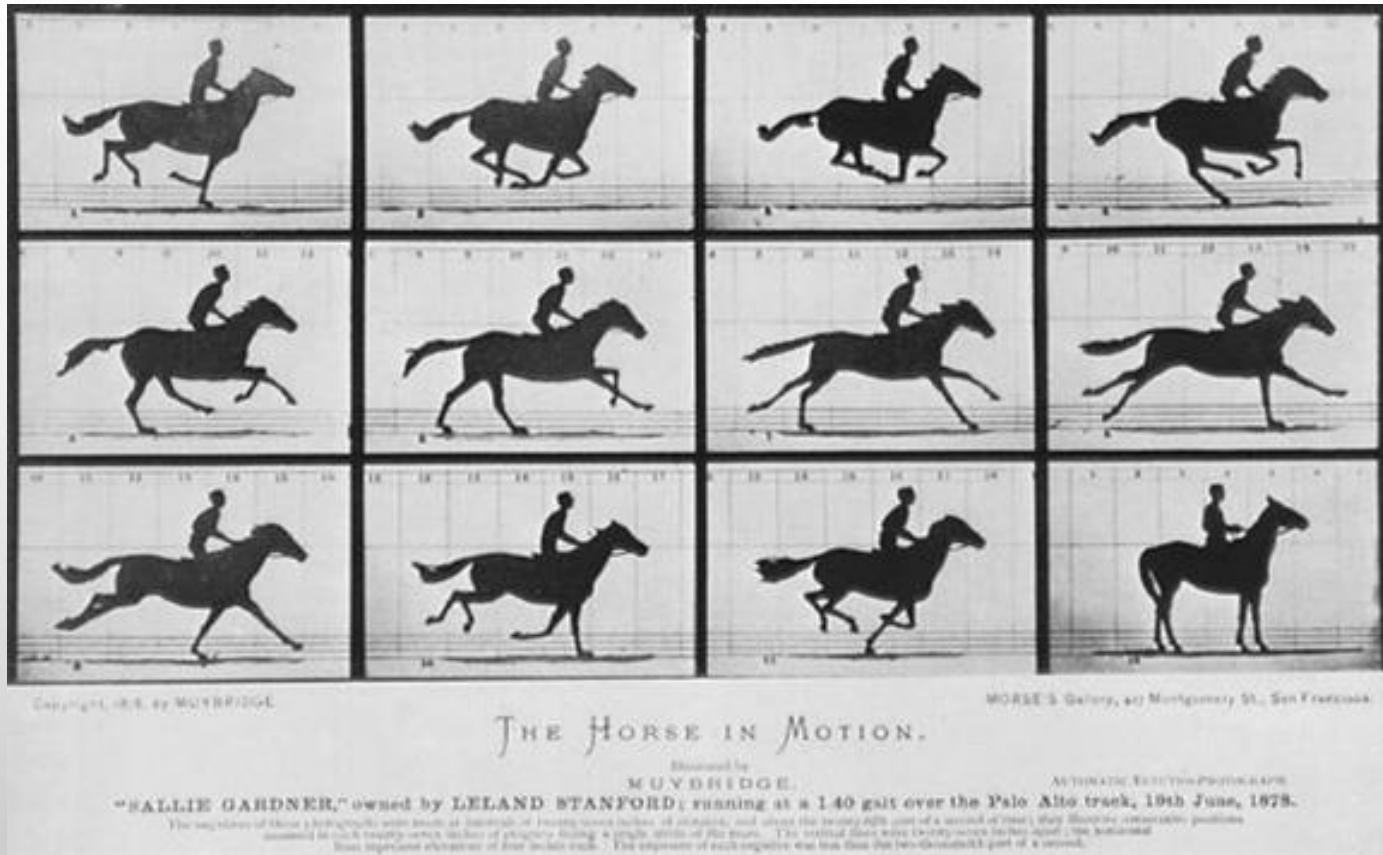
Much more refined  
images because negative  
are on glass







# EADWEARD MUYBRIDGE (AMERICAN)

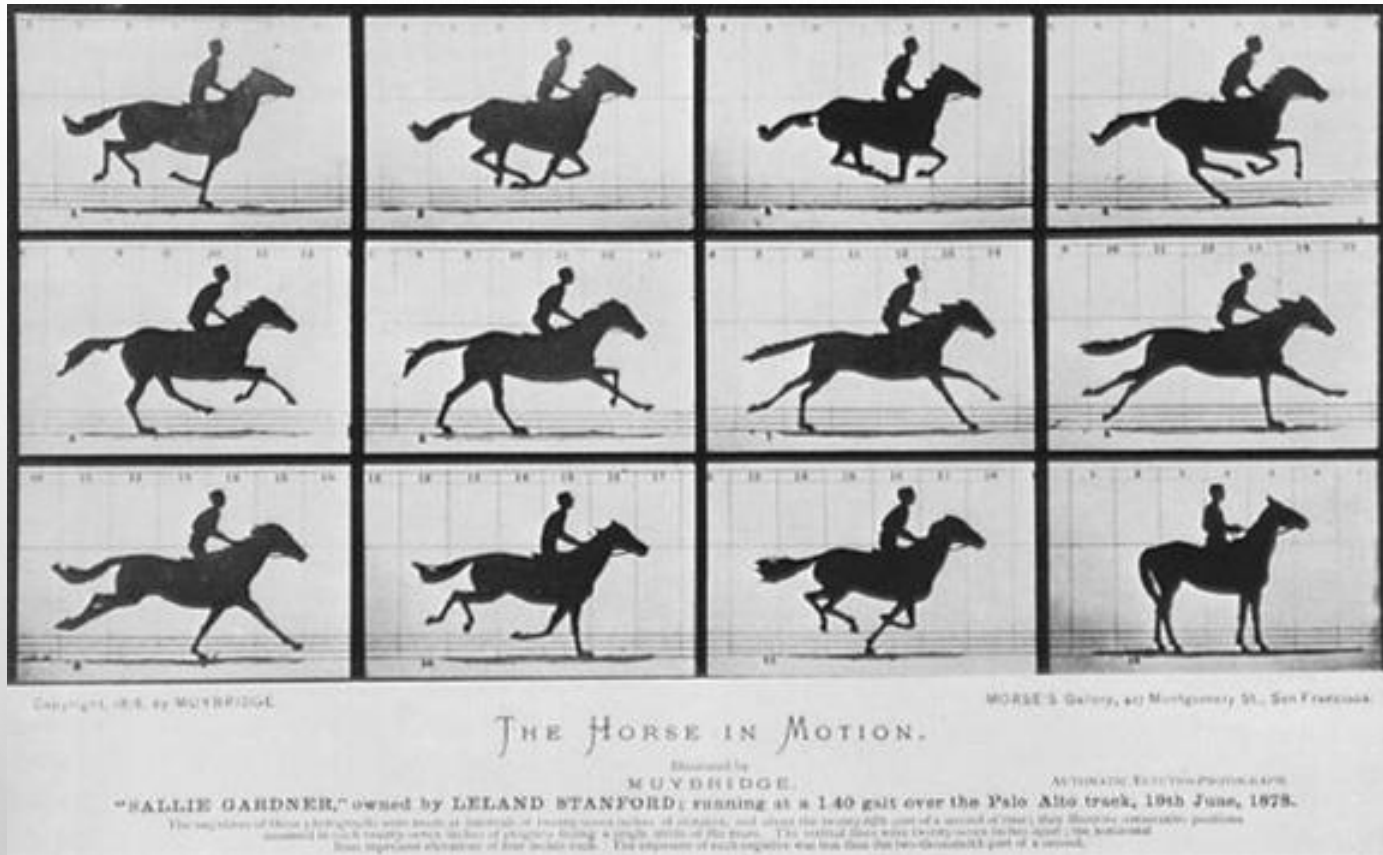


Eadweard Muybridge



Thomas Edison

# EADWEARD MUYBRIDGE (AMERICAN)



Links photography to science and the beginning of motion pictures



# ROLL FILM AND GEORGE EASTMAN



Made photography accessible to the general public – no need to be a professional to shoot photos



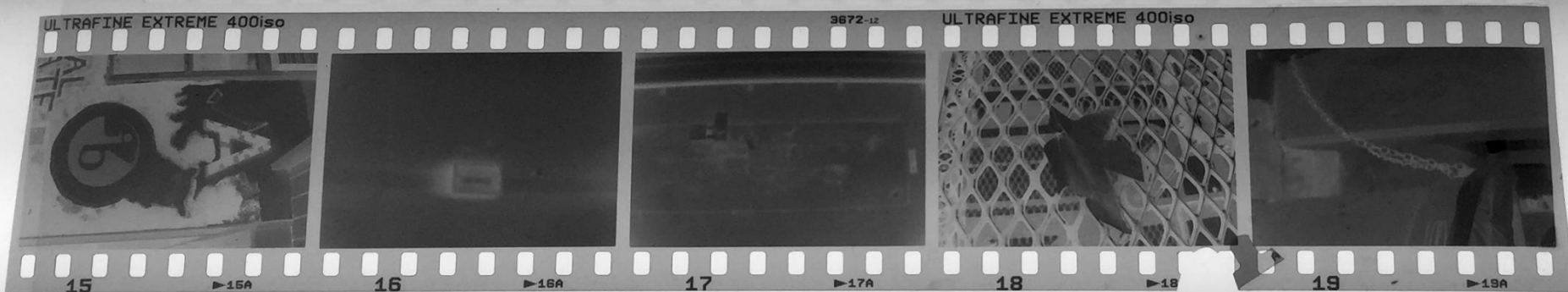
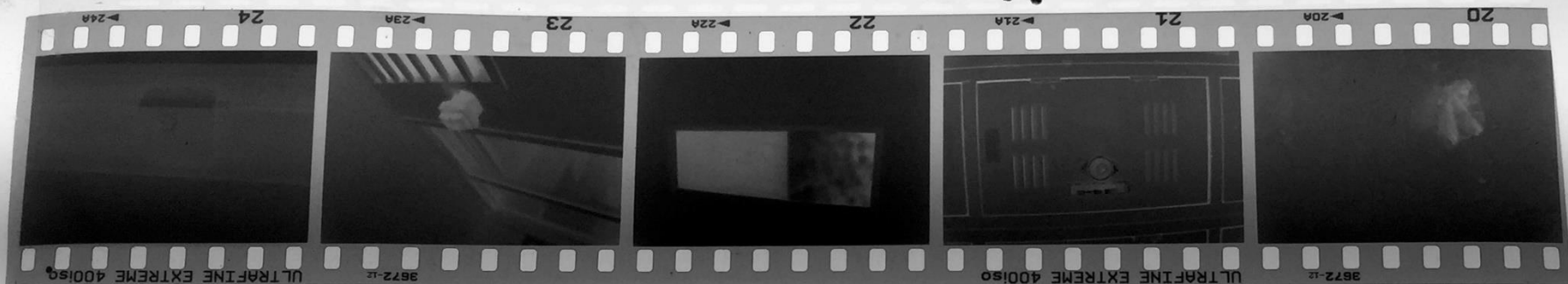
**CLEAR-FILE**  
ArchivalCLASSIC

WWW.CLEARFILE.COM

Notes:

Format #12

Sebastian Kuran Shapes



# WORLD'S FIRST DIGITAL PHOTO

- MADE BY **RUSSELL KIRSCH**
- **1957**
- IT IS A SCANNED PHOTO OF HIS SON

