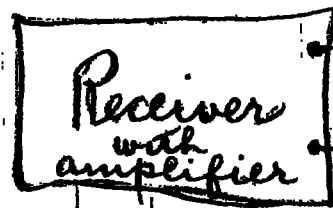
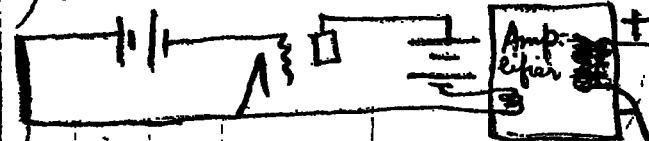


Approved for Release by NSA on 07-22-2014 pursuant to E.O. 13526



lens
lamp
responding to
incoming signals

lens
light sensitive
cell



Amplifier
with
output
pulsating
D.C. of
constant
polarity

Lamp A'

Receiver circuit part of bridge.

Camouflage circuit part of bridge.

B' C'

lens

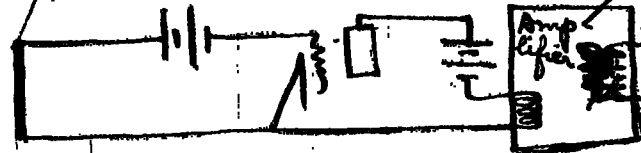
photo plate or paper (light sensitive)

Camouflage

see 5:

An exact duplicate, positive image, of the original transmitting station will produce a negative image of original message transmitted.
An exact duplicate, negative image, of the original transmitting station will produce a positive image of original message transmitted.

light sensitive cell



Operation of Lamp A' according to four cases:

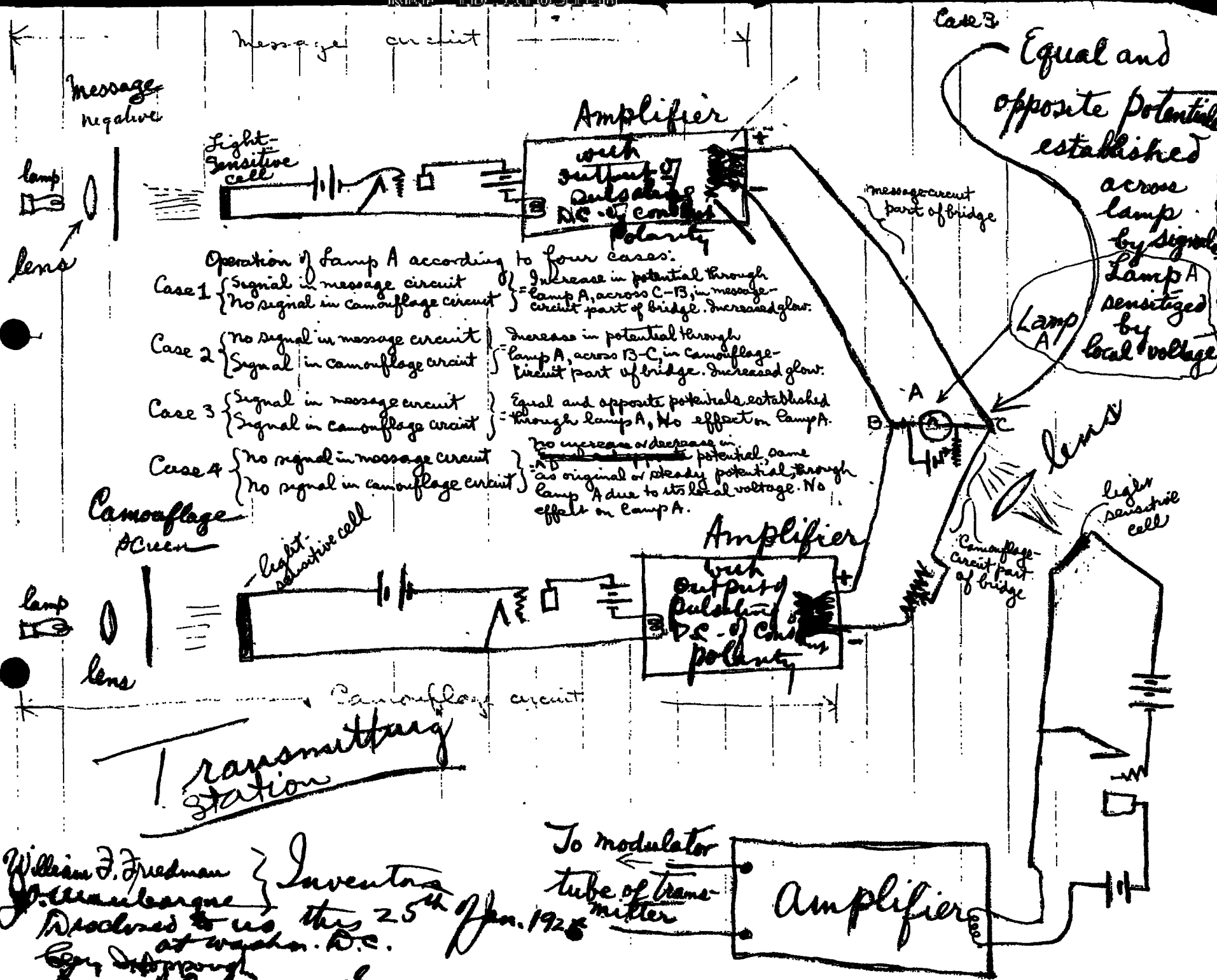
- Case 1 { Signal in receiving circuit } Increase in potential through A' across C'-B' in receiving-circuit part of bridge. Increased glow.
 { No signal in camouflage circuit }
- Case 2 { No signal in receiving circuit } Increase in potential through A' across B'-C' in camouflage-circuit part of bridge. Increased glow.
 { Signal in camouflage circuit }
- Case 3 { Signal in receiving circuit } Equal and opposite potentials established through Lamp A'.
 { Signal in camouflage circuit } no effect on glow.
- Case 4 { No signal in receiving circuit } no effect on Lamp A'.
 { No signal in camouflage circuit }

Receiving Station

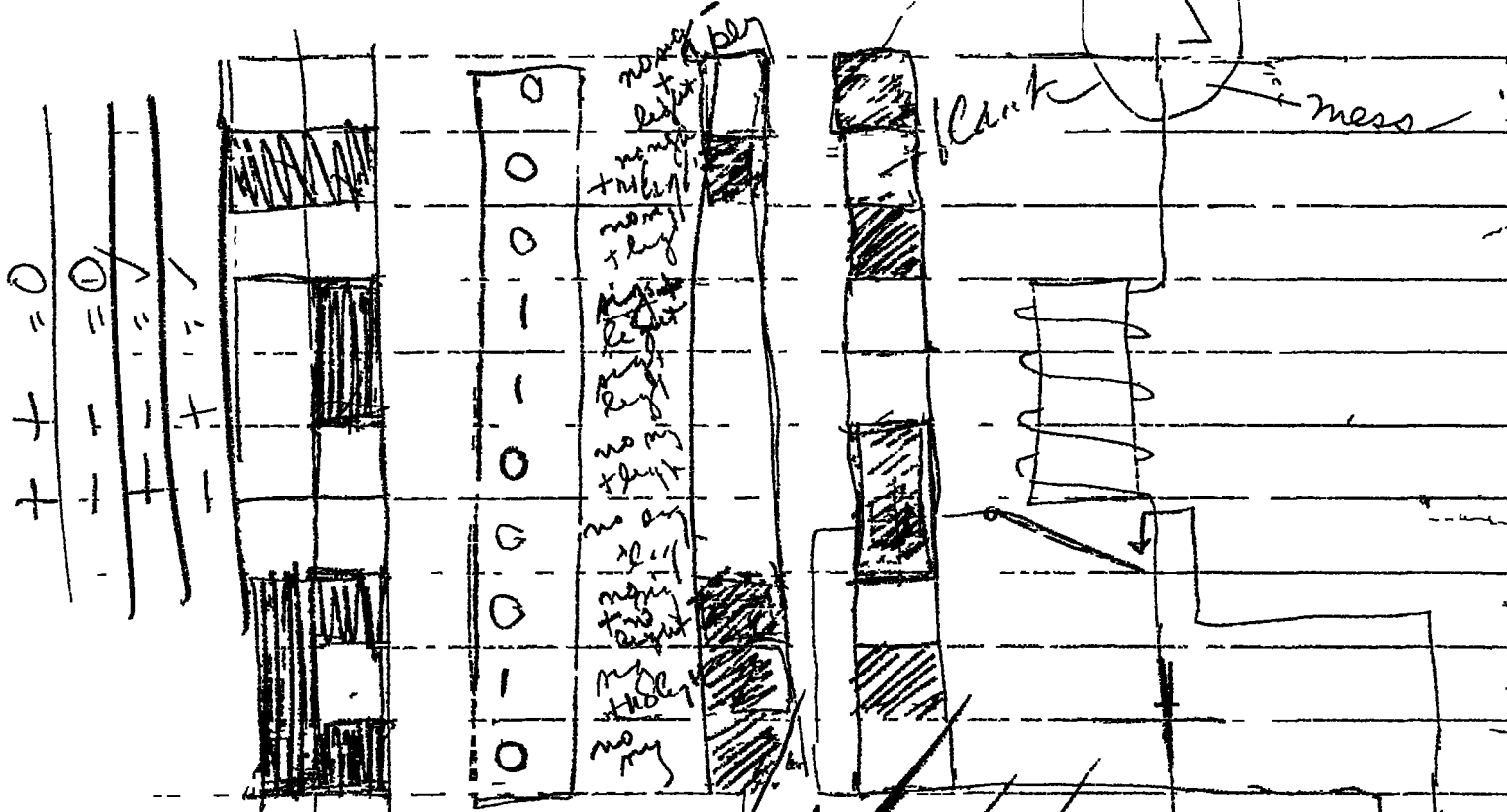
William F. Friedman } Inventors
 J. H. Laubach }

Disclosed to us this 25th of Jan 1926
 at Washn. D.C.

Guy D. Snodgrass
 Paul S. Edwards



William F. Friedman } Inventor
 J. H. Langlois }
 Disclosed to us this 25th Jan. 1925
 at Wash. D.C.
 by J. H. Langlois
 and J. H. Langlois



~~no sig + light = 0
 no sig + no light = 0
 sig + light = 0
 sig + no light = X~~

Freeman's idea
 June 23 1976
 screen
 [Signature]