Mr. Hall,
Patents Sec.
Legal Div.,
OCSigO

In accordance with our telephone conversation a few days ago, I am sending you herewith a copy of the sketches, description and correspondence relative to certain systems for enciphering facsimile which were conceived and forwarded to the Patent Section a number of years ago. I hope that it is not too late to file on either of both of these systems and, in view of the fact that processing was not started soon after the recommended action of the Patents Board, I would like to suggest that these cases be given some priority if possible. I am particularly interested in the one dated January 24, 1936 because I believe it would be much more practicable than the other in connection with present facsimile systems.

Wm. F. Friedman
Sig.Intel.Serv.
6-6-42

Declassified and approved for release by NSA on 07-22-2014 pursuant to E.O. 13526
MEMORANDUM FOR: Mr. W. F. Friedman

1. Reference is made to memorandum from this office dated September 1, 1936, concerning the action of the Signal Corps Patent Board on two inventions of yours and Colonel Wamburgue's.

2. This office has directed that applications for patents of the inventions referred to be filed under the provisions of Par. 5, A.R. 890-50 and that each application be placed under the "Three Year Rule" as provided for in Section 4894 R.S., as amended by U.S.C. Title 35, Section 37.

By order of the Chief Signal Officer:

H. P. Browning,
Major, Signal Corps.
Operation of Camp A, according to four cases:

Case 1: Signal in receiving circuit, there is no feedback through A

Case 2: Signal in camouflaging circuit, signal is fed back through A

Case 3: Signal in receiving circuit, signal is fed back through A

Case 4: No signal in receiving circuit, no effect on Camp A.
message negative

Operation of lamp A according to four cases:

Case 1: 
- no signal in camouflage circuit
- no signal in message circuit
- lamp A across C-B in message circuit part of bridge, increased flow

Case 2: 
- no signal in camouflage circuit
- increase in potential through lamp A, across B-C in camouflage circuit part of bridge, increased flow

Case 3: 
- small in message circuit
- equal and opposite potentials established through lamp A, no effect in lamp A
- no increase or decrease in potentials across lamp A
- no signal in camouflage circuit

Case 4: 
- no signal in message circuit
- small in camouflage circuit
- lamp A due to its small voltage, no effect on lamp A

Amplifier

Equal and opposite potentials established

Lamp A

Camouflage

Transmitting station

William M. Friedman Inventor

Declaration to the 25th Jan 1926

To modulator tube of

Amplifier