

## IN THE UNITED STATES PATENT OFFICE

RE: Application of  
WILLIAM F. FRIEDMAN

Serial Number  
478,193

Division 16

Filed  
6 March 1943

AMENDMENT

For  
SYSTEM FOR ENCIPHERING  
FACSIMILE

\* \* \* \* \*

The Honorable Commissioner of Patents  
Washington 25, D. C.

Sir:

In response to Patent Office action of 10 June 1948 in the above-identified application for patent, please amend the case in the following respects:

IN THE SPECIFICATION

Page 1, line 27 - After "biased" cancel the comma.

28 - After "direct" insert a comma.

Page 3, line 18 - After "direct" cancel the comma.

19 - After "direct" insert a comma.

Page 4, line 19 - Cancel the comma.

29 - After "27" insert a comma.

30 - After "i.e." insert a comma.

Page 5, line 15 - After "1" insert a comma.

20 - After "energize" cancel ~~when~~ and insert - while - .

## IN THE CLAIMS

- Claim 1 - Cancel.
- Claim 2 - Cancel.
- Claim 3 - Cancel.
- Claim 4 - Cancel.
- Claim 5, line 21 - Cancel "elector-mechanical" and insert  
- electromechanical - .
- Claim 6, line 7 - Cancel "elector-mechanical" and insert  
- electromechanical - .
- Claim 8 - Cancel.
- Claim 9, line 3 - Cancel "written matter" and insert - message - .
- 6 - Cancel "interposing in and removing impulses  
from said series of".
- 7 - Cancel "impulses according to a predetermined  
plan and transmitting the resulting".
- 8 - Cancel "series of impulses to the receiving  
station" and insert - utilizing said series of  
impulses to determine the selection of a control  
circuit for a switch; utilizing a dissimilar  
nonsynchronous series of impulses to determine  
selection of a control circuit for another switch;  
and determining successive control circuits for a  
transmitting device according to the combined ef-  
fect of said first two mentioned control circuits  
to transmit a series of impulses - .
- 9 - After "impulses" insert - and utilizing the same  
to determine successive control circuits for a  
further switch - .

Claim 9, line 9 - Cancel "re-".

10 - Cancel "moving impulses that were interposed in a series of impulses at the".

11 - Cancel "transmitting station and adding impulses that were removed from the".

12 - Cancel "series of impulses at the transmitting station" and insert - utilizing another series of impulses similar to the second-mentioned series to determine the selection of a control circuit for an additional switch; and determining successive control circuits for a recording device according to the combined effect of said last two mentioned control circuits - .

Claim 11 - Cancel.

Claim 12 - Cancel.

Please add the following claims:

13. In an apparatus of the nature described for transmitting graphic information, means for scanning a message to be transmitted to derive therefrom an electric signal irregularly assuming a succession of values responsive to the photographic density of the message at the point of scanning, means for substantially simultaneously scanning a camouflage message to derive a second electric signal irregularly assuming a succession of values depending upon the photographic density of the camouflage message at the point of scanning the second said electric signal being nonsynchronous with the first with respect to the variations therein,

a switch having two circuit-closing positions, means for causing said switch to assume one of its circuit-closing conditions when said first-mentioned electric signal assumes one value and the other of its circuit-closing conditions when the said first-mentioned signal assumes another of its values, a second switch having two circuit-closing conditions, and means for controlling said switch responsive to said second electric signal, a third switch, a control circuit for said third switch said circuit serving to close said switch when the first-mentioned two switches are in predetermined circuit-closing positions only, and means for transmitting a signal when said third switch is in closed condition.

14. Means for secretly transmitting graphic information comprising a device for scanning and representing said graphic information as a series of electric impulses of varying intensity, a camouflage message, a second device arranged for scanning said camouflage message and reproducing the same as a second series of electric impulses of varying intensity the impulses of said second series being nonsynchronous with the impulses of said first series, an electromechanical interlock connected under the control of both of said series of impulses for energization whenever predetermined combinations of impulses occur in the two said series of impulses, and a transmitter controlled by said interlock and adapted to emit impulses whenever said interlock is energized.

15. Means for secretly transmitting graphic information comprising a device for scanning a message to be transmitted and reproducing said message as a series of electric impulses of varying intensity, a second device for scanning a camouflage message and reproducing the same as a series of electric impulses of varying intensity the impulses of said second series being non-synchronous with the impulses of the said first series, a relay connected under the control of said first device and arranged to be moved by each of said impulses to one of two positions, a second relay connected under the control of said second device and arranged to be moved by each of the impulses of said second series of said impulses to one of two positions, an electric circuit including said relays adapted to be closed only when predetermined combinations of closed positions in said relays occur simultaneously, and a transmitter connected under the control of said electric circuit so as to emit impulses only whenever said circuit is closed.

## REMARKS

The amendments to the specification merely correct obvious irregularities in the text.

Claims 1, 2, 3, 4, 8, 11, and 12 have been canceled and have been replaced by Claims 13, 14, and 15 which are directed in general to the subject matter of the canceled claims but which appear in the terms of Claims 5, 6, and 7, said to be allowable. The new claims, in other words, include structure limiting them to facsimile apparatus, with such apparatus actually entering into and cooperating in the several combinations.

The new claims, as well as amended Claim 9, include the feature of nonsynchronism as between the impulses of a message sequence and a keying sequence. This concept is altogether missing from the references. It would in fact make inoperative any apparatus or method for handling Baudot or other multiple-unit code.

It appears that a final action at this time would be premature (notwithstanding the pendency of the case since 6 March 1943) in view of the change of Patent Office position indicated in the last action wherein but three claims, 5, 6, and 7, were indicated as allowable, whereas Applicant had reason to believe on the basis of the action of 22 April 1947 that Claims 1, 2, 3, 4, 5, 6, and 7 would be allowed. Under the circumstances, adequate time should be allowed for the Applicant to attempt to perfect his claims.

Reconsideration and favorable action are requested.

Respectfully,

WILLIAM F. FRIEDMAN, Applicant

By           HMS