Memorandum for

Mr. Wm. F. Friedman
Office of the Chief of the Art. Corps
Washington

7/26/35

1. Copy for your file of
Amendment 7/24/35
sent to you in Patent
Office in this case.

2. Also a copy of same
in connection with
the two new cases.

Chas. A. Rowe
Pat. Sec. 87

Confidential

CHAS. A. ROWE
Patents Section, S. C.
Room 604 1715 Branch 1313

Declassified and approved for release by NSA on 09-13-2013 pursuant to E.O. 13526
IN THE UNITED STATES PATENT OFFICE

In re application of
William F. Friedman,
Serial No. 682,096,
Filed July 25, 1933,
Cryptographic System

Hon. Commissioner of Patents,

Sirs:


In the specification, page 2, line 1, cancel "cryptographs"
and substitute -- cryptographic systems --

Page 3, lines 3 and 4 cancel "take the form of a set of "
and substitute -- comprise translating devices such as the --
Line 4 after "or" insert -- the translating devices may take the form of --

Page 3, line 15 before "one" insert -- a sensing mechanism
such as --

It is desired to incorporate the following additional claims:
35. In combination a set of character elements constituting a
keyboard; a switch individual to each element and operable thereby; a cor-
responding number of translating devices operable by said elements; a wiring
system interposed between said switches and said translating devices rendering
available a multiplicity of electrical paths between said switches and said
devices; and means operable in response to each key operation for selecting
a group of said paths, said last named means comprising a variably operable
sensing mechanism.

36. In combination a set of character elements constituting a
keyboard; a switch individual to each element and operable thereby; a cor-
responding number of translating devices operable by said elements; a wiring
system interposed between said switches and said translating devices rendering
available a multiplicity of electrical paths between said switches and said
devices whereby each switch may become associated with any one of a plurality
of said translating devices, said system comprising adjustably movable con-
nectors whereby the wiring system may be given an initial setting providing
one electrical path for each switch; and means operable in response to each
key operation for changing such setting.

37. The combination set forth in claim 36, in which the last
named means comprises a sensing mechanism operable by a perforated element.

38. The combination set forth in claim 36, in which the last
named means comprises a plurality of relays corresponding in number to the
number of movable connectors; and a sensing mechanism operable by an ele-
ment perforated in accordance with a plural unit character code.

39. In combination a set of character elements constituting
a keyboard; a switch individual to each element and operable thereby; a
corresponding number of translating devices operable by said elements; a
wiring system interposed between said switches and said translating devices
rendering available a multiplicity of electrical paths between said switches and said devices whereby each switch may become associated with any one of a plurality of said translating devices, said system comprising a plurality of stationary annular commutator elements and rotatable annular commutator members interposed between each pair of fixed commutator elements, said members having a set of contacts on each face thereof, cooperating with the contacts of the adjacent stationary element, said members also having random cross connections between the contacts on the opposing faces thereof, whereby the wiring system may be given an initial setting at will; and means operable in response to each key operation for changing such setting.

REMARKS

Applicant's file record is in agreement with the Patent Office file as to the claims remaining in this case.

As to claims 11 and 13, the Examiner is correct in noting that both of said claims were cancelled, these two claims having been included in the request for reconsideration through inadvertence.

A group of additional claims Numbers 35 to 39 inclusive are submitted for action and in support of the terminology of said claims, amendments have been directed on page 3 of the specification to establish the identity of the elements recited in said claims under the terms translating devices and sensing mechanism. The bank of indicating or signalling elements shown
in Fig. 1 and generally designated by the numeral 2 answers the term
*translating devices* and corresponds in number to the character elements
of the keyboard generally designated by the numeral 1. The term
*sensing mechanism* is answered by the tape transmitter 5 and in the form
shown in Figs. 2 and 3, the *sensing mechanism* comprehends a multiple ar-
range-ment of tape transmitters. As to the other elements of the new claims
35 to 39, it is believed that there will be no difficulty in clearly read-
ing said claims on the disclosure, so that it is thought unnecessary to
apply each of the elements, since the structure will be fully understood
by the Examiner, and the operation as well as the structure as defined in
said claims, may be clearly apprehended by reference to the description
beginning on page 7, last paragraph of said page and continuing through
to the end of page 8.

The new claims are thought to be patentably clear of the art
for reasons brought out in previous arguments and particularly in that each
of said claims recites *translating devices* for which no corresponding ele-
ments will be found in the art of record.

It is noted that the Examiner adheres to his rejection of
method claims 26 to 34, inclusive. Referring in this connection to the
criticism found in the last paragraph, page 2 of the official letter, the
word, system, as found in claim 26 as well as in other method claims was
used to comprehend both the terms method and apparatus.
As previously pointed out, it was considered necessary in drafting these claims to set forth in the preambles thereof an antecedent recital of structure in the interest of clearness and intelligibility, but without denying the proposition that the instrumentalities would be susceptible of considerable variation, since it cannot be conceded that in the present instance the method steps recited in said claims are merely the obvious and intended function of the apparatus covered in said claims.

In requesting reconsideration of the method claims in this case Numbers 26 to 34, applicant can only confirm his position and reiterate the arguments previously submitted in his behalf. It is desired to add to the record another decision of the Supreme Court of the United States dated January 7, 1935 which is cited as follows: Smith vs. Snow et al 451 O.G. No. 5, 487 (1935).

It is noted that claims 1 - 10, 12, and 14 - 25 are considered allowable.

Favorable consideration is requested of the new claims Numbers 35 to 39 inclusive in the light of the foregoing.

Respectfully submitted,

William F. Friedman,

By:

Attorneys