

IN REPLY
REFER TOWAR DEPARTMENT
OFFICE OF THE CHIEF SIGNAL OFFICER
WCE/gab
WASHINGTON

November 22, 1933.

MEMORANDUM FOR: Mr. Rowe, Patent Section, Room 1713.

1. There is attached memorandum w/specifications, claims, and drawing, from Mr. William F. Friedman, an employee of the Signal Corps.
2. It is requested that the necessary steps be taken to secure a patent on this invention as it is believed to come under AR-850-50.

Attached:
Memo. 11-15-33 w/incls.

Walter C. Ellis
WALTER C. ELLIS,
Capt., Signal Corps.

WAR DEPARTMENT
^{Lnn}
OFFICE OF THE CHIEF SIGNAL OFFICER
WASHINGTON

November 15, 1933

MEMORANDUM TO: Research and Development Division
(THROUGH War Plans & Training Division)

1. Attached hereto are draft specifications, claims, and a drawing covering a new type of cipher machine upon which letters patent are desired. It is requested that they be forwarded to the Patents Section with the request that they be prepared for submission to the Patent Office.

2. This cryptograph represents a modification of the principles underlying cipher machine type M-134-T2, which is now being constructed at the Signal Corps Laboratories. It is not intended, however, that the development referred to be in any way affected by the present invention, which represents an alternative scheme that may be desirable to develop at some future time.

William F. Friedman
William F. Friedman,
Signal Intelligence Section.

Attached:
Specifications, claims,
and drawing.

LICENSE

WHEREAS, I,

WHEREAS, in pursuance of said employment I have invented certain improvements in

for which I am about to make application for Letters Patent of the United States; and

WHEREAS, the nature of my employment, and the conditions and circumstances under which said invention was made, are such as to justly and lawfully entitle the Government of the United States of America to have a non-exclusive license and right to make and use said invention throughout the United States, its territories and dependencies, together with any and all improvements thereon and inventions relating thereto that I have made, or may hereafter make, while employed and engaged by the United States Government;

NOW, THEREFORE, in consideration of the premises I do hereby give and grant unto the Government of the United States of America a non-exclusive license to make, to have made, to use and/or to sell, said invention as described in the specification executed by me on the.....day of....., 192....., together with any and all improvements thereon and inventions relating thereto made by me while employed or engaged by the United States Government, or for which I may hereafter make application for Letters Patent while employed or engaged by the United States Government, reserving to the applicant in each case the unrestricted possession of all other patent rights not hereby or otherwise licensed to the Government of the United States of America. Said license hereby granted or agreed to be granted shall extend throughout The United States, its territories and dependencies and shall continue in force for the full term for which said Letters Patent may be granted.

Signed at, State of.....this.....day of, 192.....

Witnesses:

Signed:

.....
.....

.....
.....

Ser. No. 28,500
filed June 26, 1935

P E T I T I O N

TO THE COMMISSIONER OF PATENTS:

Your petitioner, WILLIAM F. FRIEDMAN, a
citizen... of the United States residing at the City of Washington
in the ~~County of~~ District of Columbia
and whose post-office address 3832 Military Road, Washington, D. C.

..... pray^s that Letters Patent may be granted to
him without payment of fees, pursuant to the provisions of the Act of March 3,
1883, c. 143; U. S. Statutes, XXII, p. 625, as amended by the Act of April 30, 1928,
for the improvement in MESSAGE AUTHENTICATING SYSTEM

.....
set forth in the annexed Specification.

And he hereby give^s irrevocable control of his application for Letters
Patent to the Secretary of War, and appoints Robert V. Laughlin and Charles A. Rowe
or either of them, whose post-office address is care of the Chief of the Air Corps,
Munitions Building, Washington, D. C., attorneys with full power of substitution and
revocation to prosecute this application, to make alterations and amendments therein,
to sign his name to the drawings, to receive the Letters Patent, and to transact
all business in the United States Patent Office connected therewith.

Signed at Washington, D. C. ~~in the County of~~
~~.....~~
and State of this day of 19.....

(Sign here
(first name in full)

S P E C I F I C A T I O N

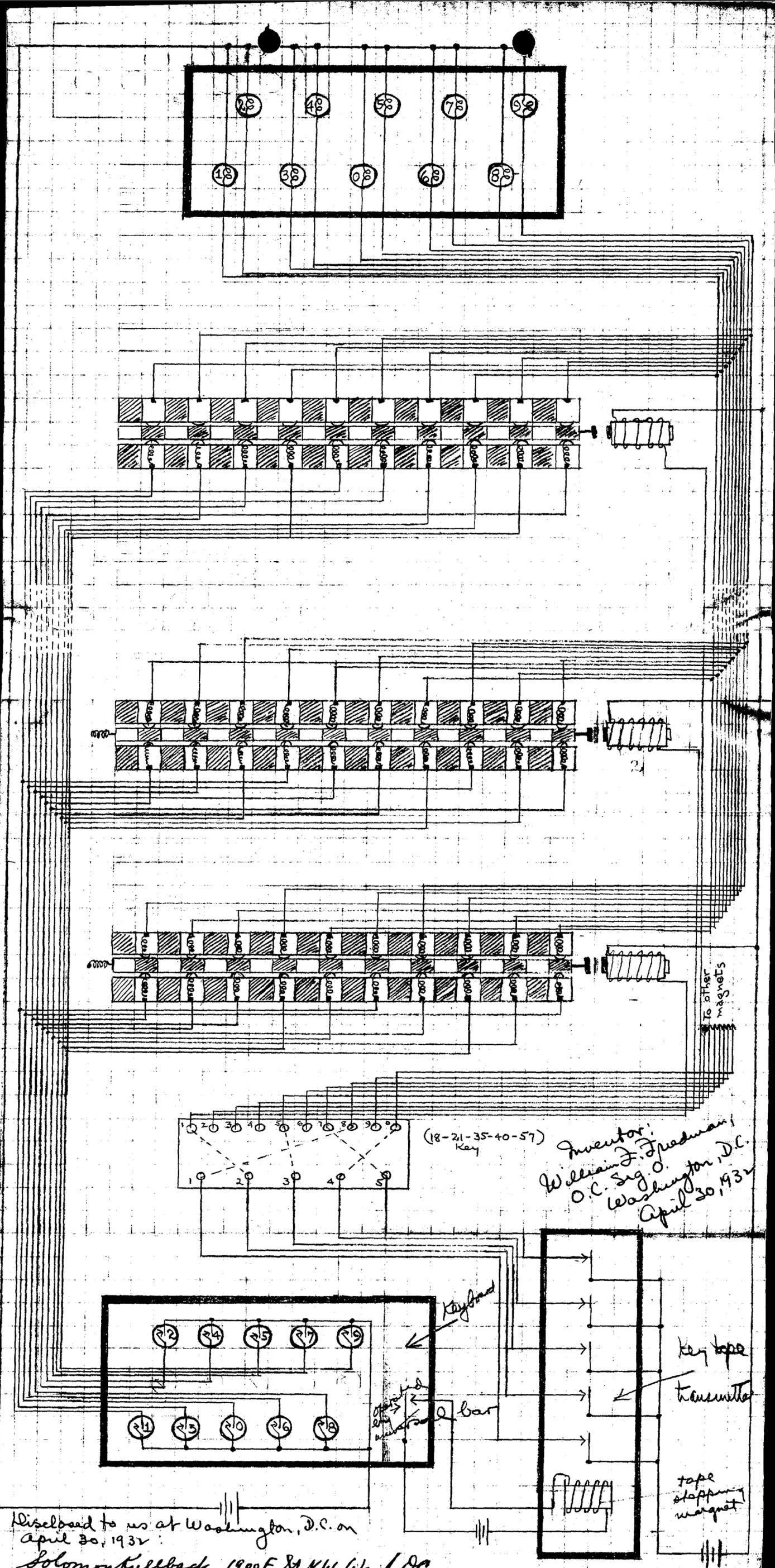
TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN, That I, WILLIAM F. FRIEDMAN, a citizen
of the United States residing at Washington in the County of District of
~~.....~~ Columbia and State of va have invented certain new and useful improvements in

MESSAGE AUTHENTICATING SYSTEM

.....
of which the following is a specification:

The invention described herein may be manufactured and used by or for the Gov-
ernment for governmental purposes, without the payment to me of any royalty thereon.



Inventor:
 William F. Friedman,
 O.C. Sig. O.
 Washington, D.C.
 April 30, 1932

Disclosed to us at Washington, D.C. on
 April 30, 1932
 Solomon Kullback 1900 F St NW Wash DC
 Mark Phillips, Jr Adjutant General
 Abraham Sinkov 1412 Chapin St. Wash DC
 Frank B. Rowlett 2121 New York Ave. NW Wash. DC.