

WAR DEPARTMENT  
Office of the Chief of Air Service  
Patents Section  
Munitions Building, Washington, D. C.

(Use separate sheet for each invention)

FOLLOW INSTRUCTIONS ON BACK

- (a) Inventors:
  - (1) Name (1) William F. Friedman (2) Frank B. Rowlett (1) Chief of Signal Int. Service, OCSigO (2) Jr. Cryptanalyst, OCSigO
  - (2) Rank, position or employment: (1) 3932 Military Road, Washington, D.C. (2) East Falls Church, Virginia.
  - (3) Permanent address: (1) 3932 Military Road, Washington, D.C. (2) East Falls Church, Virginia.
- (b) Title of Invention. **Improvements in Cryptographs**
- (c) Description of Invention. **Means and methods for aperiodically controlling the displacements of rotatable commutators of cryptographs employing connection changers of this type.**
- (d) Dates and places of Invention:
  - (1) Conception by inventor June 15, 1935 at Washington
  - (2) Disclosure to others: June 15, 1935 at Washington
  - (3) First sketch or drawing: June 15, 1935 at Washington
  - (4) First written description: June 29, 1935 at Washington
  - (5) Completion of model or full sized device: \_\_\_\_\_ at \_\_\_\_\_
  - (6) First test or operation of invention. \_\_\_\_\_ at \_\_\_\_\_
- (e) Results of tests, and extent of use of invention: **Not known**
- (f) Names of persons having knowledge of facts stated under (d) ~~and (e)~~: **Chas. A. Rowe Lt. W. P. Corderman, Signal Corps**
- (g) Prior Reports: **None**
- (h) Patents and Patent applications: **To be applied for.**
- (i) Rights of U.S. Government: **Shop rights**
- (j) Licenses or Assignment: **None**
- (k) Contracts involved: **None**

Contractors	Address
Contract No. and date	Type of Contract
Subject matter	
Location of Plant	
Official title or status of employment of inventor:	

(1) Signature of witness and date: <u>Louise H. Nelson</u> October 7, 1935	Signature of inventors and date: <u>William F. Friedman</u> <u>Frank B. Rowlett</u> August 31, 1935
(m) Remarks of Forwarding Officer:	Signature of Forwarding Officer and date:

The following information will be given under the headings indicated:

- (a) The inventor should give his permanent address. He should also give his rank, corps, position or status of employment at the time invention was made.
- (b) The title of the invention should start with words indicating the class to which the invention belongs, such as "Method of" or "Process of" in case the invention relates to a method or process; or the name of the article, device or type of machine in case the invention relates to an article, device or machine, or the name of the material or composition in case the invention is an improvement in material or composition.
- (c) The description of the invention may be brief, provided reference is made to detailed specifications and drawings, which should be identified by date and file number if official, or should be attached to the report if not part of the official records of the War Department. In either case, all drawings and descriptive pamphlets relating to the invention should be listed.
- (d) Care should be taken to give the earliest date on which the invention suggested itself to you, even though it was not completely in mind. If the invention comprises different inventive ideas, give the dates with reference to each part of the invention separately, taking care to identify each part clearly in the description of the invention.
- (e) State whether or not the invention was found to be operative, and the degree of success attained at each test of the model or full sized device. In stating the extent of use of the invention, separate "use by the Government" from "commercial use".
- (f) State the names of persons who had knowledge of the invention and facts concerning it on or about the dates mentioned.
- (g) Has description of invention or report of test, if any, been submitted to officers of the War Department? If so, when and to whom? Give references to all prior reports, including all information needed to locate same in files.
- (h) List all applications for patents by filing dates, serial number and title. List all patents by patent number, date of grant, and title.
- (i) Has tender to the United States been made? If so, when and to whom? If not, tender the use of the invention to the United States or explain why not.
- (j) State what, if any, rights in the invention have been granted to others, including extent of interest granted and date of recording assignment or license in Patent Office.
- (k) If contracts have been placed for the invention, or if the invention was made in connection with the performance of a contract in which the United States is interested, the facts should be given briefly, including contractor's name and address, Contract No. and Date of Contract; Subject Matter, Location of Contractor's Plant where work was done; and Official Title or Status of Employment of Inventor.
- (l) It is desirable that the witness be familiar with the facts stated concerning the invention and have a sufficient understanding of the invention to describe its construction and operation.
- (m) The forwarding officer should give his opinion of the value of the invention to the U.S. and whether or not the prospective development or the art to which the invention relates would make it advisable to protect the invention and the Government's right to use the same by an application for patent.