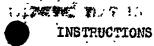
REF ID:A39527

RECORD OF MILITARY INVENTION Suspense 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) Inventor: Name: William F. Frader (1)nt. Rank, position or employment: Kun upol Cyptanolys (2) (3)Permanent address: 3932 military Road, Was かく、 (b) Title of Invention: Cryptograp (c) Description of Invention. means for en Com the eigher where controlled to le rotato ent or decipherma bla inlin As that a tion of the en the a constan 010 عطه (d) Dates and places of Invention: at Wash il 6, 1936 (1) Conception by inventor: 1936 28 (2) Disclosure to others 6 22 (3) First sketch or drawing: <u>C</u> L 6 936 at -H и (4) First written description: at (5) Completion of model 'hom or full sized device: at (6) First test or operation of invention: at (e) Results of tests, and extent of use of invention: none (f) Names of persons having knowledge a. Sunkor, S. Kulback, F.B. of facts stated under (d) and (e): Powlett, mrs. E.S. Friedman Prior Reports: April 29, 1936, in menus to R.+ D. Dir, O CSig O., Par, 5 april 15, 1937, " " to CSig O, copy attached. (g) (h) Patents and Patent applications: (i) Rights of U.S.Government: (j) Licenses or Assignment: (k) Contracts involved: Contractors Address Contract No. and date Subject matter Type of Contract Location of Plant Official title or status of employment of inventor: (1) Signature of witness and date: Signature of inventor and date: (m) Signature of Forwarding Officer Remarks of Forwarding Officer: and date: W-892, A.S. Rev. 6/2/24 (Over)

Approved for Release by NSA on 09-30-2013 pursuant to E.O.





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 mare 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 cannection 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 dene; and Official Title or Status of Employment of Inventor.
- (1) It is desirable that the witness be familiar with the facts stated conserving 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.

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ID:A39527 REF

RECORD OF MILITARY INVENT

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) Inventor:

- (1) Name illian F. Friedman (2) Rank, position of employment Frincipal Gryptanalyst, Sig. Int. Section Permanent address 3932 Military Read, Washington, D. C.
- (b) Title of Invention: Gryptographic Machine

(c) Description of Invention.

Means for enciphering and deciphering messages, comprising: a single rotatable cipher wheel controlled by a cam-wheel keying mechanism so that encipherment (or decipherment) takes place at a constantly varying point in the retation of the cipher wheel; a keyboard and a (d) bank of indicating devices Dates and places of Invention: Conception by inventor: April 6, 1996 (1) a Washington

- Disclosure to others April 6, 22, 28, 1936 (2) atwashing
- (3) First sketch or drawing april 6, 1936 attestingte
- (4) First written description meril 6, 1936 a Washington
- (5) Completion of model or full sized device: Mone at
- (6) First test or operation of invention: lone
- (e) Results of tests, and extent of use of invention: None
- **(f)** Names of persons having knowledge ames of persons having knowledge A. Sinkov, S. Kulback, F. B. Rowlett, of facts stated under (d) and (e): Wrs. R. S. Friedman
- (g) Prior Reports: April 29, 1936, in memo to R. & D. Div., OCSigO, Par. 5
- (h) Patents and Patent applications:

(i) Rights of U.S.Government:

.(j) Licenses or Assignment:

(k) Contracts involved:

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

(1)Signature of witness and date: 0137 **XXQ** .

(m) Remarks of Forwarding Officer:

Address

Type of Contract

at

Signature of inventor and William J. Jredu

Signature of Forwarding Officer and date:

(Over)

INSTRUCTIONS

The following information will be given under the headings indicated:

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