



## IN THE

### UNITED STATES PATENT OFFICE

IN RE: Application of

WILLIAM P. PRIEDUAN

Serial No. - Division 53

551,172

- Rocat 253

Filed -

25 August 1944 - 28 July 1945

FOR AUTHENTICATING DEVICE

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## ALEMENT

TO: The Honorable Commissioner of Patents Washington, D. C.

Sire

This is in response to Patent Office action dated 3 February 1945 in the above identified application.

# IN THE CLAIB!

Claim 1 - Canoel

Claim 3, Line 5 - Canoel "another switch" and insert - a selector -.

Line 6 - Change "sources" to - source - .

Claim & - Cancel

Claim 5, Line 2 - Cancel "or the like".

Line 5 - Cancel "a contact" and insert - one of a limited number of contacts - .

Please add the following claim:

6. In a device of the nature described, a source of current, a series of cryptographic rotors having a plurality of inputs and a plurality of outputs, a selector adapted to make successive circuits between said source of current and a limited number of preselected inputs to said

card or the like slidsbly held thereby eadd card bearing indicis which series, an indicator for each of said outputs adapted to be energized by may be variously juxtaposed with the said indicators. said means comprising a bolding member adjacent said indicators and a said source, and means for assigning variable values to said indicators

# REMARKS:

2,090,416, which is erroneous, No. 2,090,416 being a patent to Hull for Refrigerating Apparatus. The reference may be Fatent No. 2,080,416 to citation is desired. Reference is no do to day of the cital palanta One of the references cited by the Examiner is identified as Friedman, If the reference in question is to be relied upon, its proper

familiar to the art, and since no specific mounting means or rotor con-Applicant's description and claims and means for mounting the same are requested. additional drawings. Reconsideration of the requirement therefor is struction is claimed, it is not apparent what purpose will be served by Since the "multiple contect switches" and "cryptographic rotors" of

page 3, first and last paragraphs. ence to the structure lll-ll2, the former being slidable within the latter vention in the "means" of lines 7 and 8 thereof, the expression has referand replaceable, thus to provide a means for changing the values of the several lamps 101 through 110. The function of the strip is explained on Referring to the objection to Claim 2 as falling to define the in-

ferred to is selector 90-97. It should be noted that this selector does not close all of the inputs to the rotor bank but to a predstormined numdistinguished from a cryptograph). ber of selected inpute. This arrangement is not found in any of the referance patents end probably would not be used except in an authenticator (as Claim 3 has been amended to point out that the "other switche reREF ID: A67652

It may be noted, in response to the Examiner's query as to the difference between an authenticator and a cryptograph, that the former is a special case of the litter. While most cryptographs can be used to authenticate, the contrary is not true except that one or a small number of characters usually are enciphered in an authenticating operation. A further distinction is that no purpose is served in an authenticator by any means for a ciphering as both correspondents normally perform exactly the same steps in authenticating a communication.

In Claim 5, in addition to the cancellation of the expression "or the like", the claim as amended brings out the selection by the last-mentioned switch of a contact of a group of a limited number.

Claim 6 specifically includes the structure 111-112 of Figure 2.

It differentiates from the references as explained below.

with regard to the references cited, none of them shows the selector-type switch called for by most of the claims nor the device of presidecting a limited number of inputs to the rotor maze, nor the me ans, either broadly or specifically, for varying the values of the output indicators, the latter two of which features are of particular importance.

Reconsideration and favorable action are requested.

Continued prosecution under the three-year rule is desired.

Respectfully,
WILLIAM F. FRIEDMAN, Applicant

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