

~~CONFIDENTIAL~~

IN THE UNITED STATES PATENT OFFICE

In re Application of

Division 44

William F. Friedman

Serial No. 549,086

Filed: August 11, 1944

For: ELECTRICAL SYSTEM

AMENDMENT

The Honorable Commissioner of Patents
Washington 25, D. C.

Sir:

This is in response to the final rejection of 13 April 1956. Please amend the case as follows:

IN THE CLAIMS:

Cancel claims 2, 5 through 7, 10 and 11.

Add the following claims:

25. In a cryptograph including a source of current, a plurality of indicating devices, a normally open switch for each said indicating device, a plurality of permutable electric paths interconnecting said indicating devices in pairs, and means for permuting said paths, two ^{permutable} circuits closable by closing each said switch, one including said source of current, the closed said switch, and the said indicating device thereof, and the other including said source of current, the closed said switch, ~~the said indicating device thereof,~~ one of said permutable paths, and the interconnected said indicating device.

*As discussed
with Spⁿ
15 Oct 56
JHJ*

*Jan - You may put this in final form. Please
save this draft. JHJ*

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26. ~~A~~ cryptograph according to claim 25, further characterized by a manually operable switch, and a further switch having two operable positions interposed in a selected one of said other circuits alternatively to connect in its first position the permutable path of said selected circuit to said normally open switch ~~of said selected circuit~~ ^{thereof} and in its second position to connect said permutable path of said selected circuit to said manually operable switch, means operable by said permuting means for causing said further switch to assume its ~~other operable~~ ^{said second} position thereby to ~~open said last mentioned other circuit at said point~~ ^{interconnect} and to close an authenticator circuit including said source of current, said manually operable switch, said further switch, ~~a~~ said permutable path, ^{of said selected circuit,} and the ~~said~~ indicating device, ~~connected thereto.~~

interconnected said

to connect

26 In a cryptograph according to claim 25, further characterized by a manually operable switch, and ^a further switch having two operable positions, ^{interposed in} and operable in one position to close a said other circuit at a point between a predetermined position connect said permutable path to said normally said indicating device and the said permutable path thereof, ^{alternatively in its first} means operable by open switch of said ^{selected} circuit, and in its second position said permitting means for causing said further switch to assume its other operable ^{to said manually operable switch, means} position thereby to open said last mentioned other circuit at said point and to close an authenticator circuit including said source of current, said manually operable switch, said further switch, a said permutable path, and the said indicating device connected thereto

*11-2
Amended
with 5/12
15 - Oct 26
JBB*

In a cryptograph, a source of current, a plurality of cryptographic rotors, stationary contacts connected in pairs through said rotors, an indicator connected to each of said stationary contacts, *one indicator serving as an* a switch for each said indicator, and a plurality of circuits each closable by a said switch each including said source of current, *a said input indicator,* a said stationary contact, a path through said rotors, the connected stationary contact, and the connected *resultant* indicator, means for stepping said rotors, and a further switch operable by said rotor stepping means and, when operated, by-passing a selected indicator and a said switch.

input indicator and the other serving as a resultant indicator,