REF ID:A105124

CCMP TORNUT.A.

14 Feb 47 AS-71 AS-23 Patent Application

For information upon which to base a reply.

1 Incl Disp Form dtd 11 Feb 47 fr Patents & Invs. Br, Legal Branch

GEORGE A BICHER Colonel, Signal Corps

THRU

AS-80 TO

AS-23 AS-71 19 Feb 47

- 1. Applications for patent, serial numbers 478,193, 478,868, and 551,172, are forwarded for your comments and recommendations.
- The Research and Development Division has no objection to the release of the applications.

4 Incls

Added 3 incls

- 2. Appn SN 478,193
- Appn SN 478,868
- Appn SN 551,172

S. KULLBACK

Chief, Research and Development Division

CONFIDENTIAL

- AS-20 AS-71 19 May 47 1. In response to the oral request by Captain

 Woehlke for recommendations and comments regarding patent
 applications of Villiam F. Friedman, serial numbers
 478,193, 470,868, and 551,172, numbers 478,193 and
 478,868 were circulated through AS-80 and AS-90.
 - 2. Certain background information with respect to the two cases and brief descriptions of the inventions thereof appear in Comment 1.
 - 3. AS-70 concurs with the conclusions of AS-80 and AS-90.
 - 4. Serial Number 551,172 was not circulated since the application had never been classified. A draft of the case was considered before filing; the views of the interested branches and individuals may be found in an R & W, 24 July 1944, subject: Authenticating Device, through Chief, C Branch, to Commanding Officer, Signal Security Agency, and six subsequent actions, the final action being an approval by the Assistant Chief, Signal Security Agency, for the filing of an unclassified patent application.
 - 5. Return of the copies of the applications is requested.
 - 3 Incls
 - 1. n/c
 - 2. n/c
 - 3. Pat Appin SN 551,172

S. KULLBACK, Chief Research Laboratories Division Ext. 284

CC HPIDENTIAL

REF ID:A105124

3. AS-70 AS-90 15 May 1947 Applications for Patent -SN 478, 193 and SN 478,868 (cont'd)

Operations Division has no objections to the declassifying and release of these patent applications.

2 Incls n/c FRANK B. ROWLETT Chief, Operations Division Ext. 315 COMPTDEMET AL.

THRU: AS-80

Applications for patent SN 478,193 and

AS-90 AS-71 6 May 47 SN 478, 868

- 1. Inclusives 1 and 2 are forwarded for evaluation and return.
- The applications are currently classified confidential. The question is whether the inventions may be declassified so that patents can issue and be exploited commercially.
 - 3. Both disclosures relate to facsimile privacy apparatus.
- a. Serial Number 472,193 involves the derivation of an on-off signal from a black and white message (picture) and another on-off signal from a dummy picture. The dummy message may or may not be intelligible in itself. The two signals are added by a system of relays so that, when message and dummy signals are alike (both "ons" or both "offs"), an off signal is transmitted while two unlike currents result in the transmission of an on signal. This is, in other words, according to the so-called Vernam rule. At a receiving station, the dummy messa e or key is subtracted.
- b. Scrial Number 478, 368 describes a system essentially like the above except that addition is accomplished by tubes instead of relays.
- 4. Further information about the subject applications may be obtained if necessary, from Chief, AS-72.

2 Incls

1. Pat Appn SN 478,193

2. Pat Appn SN 478,868

S. KUILBACK, Chief Research Laboratories Division Ext. 284

THRU: 2. AS-80 9 May 47 AS-90

The Security Division has no objection to the declassification and release of these patent applications.

TO

AS-71

2 Incls n/c

A. SINKOV Chief. Security Division

Extension 241

TATIFICATION AT

和中央 A105124

HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25 D C

IDGAS-71

11 October 1946

SUBJECT Patent Application of Friedman and Mauborgne, SN 478,868

TO Chief Signal Officer
Director, Legal Division
Patents and Inventiors Sranch
4C 274, The Pentagon
Pashington 25, D. C.
ATTENTION Mr. Harry M. Saragovitz

- 1. Inclosed herewith, in duplicate, is a proposed amendment to the subject application.
 - 2. The amendment is due in the Patent Office 16 October 1946.

 FOR THE CLIEF, ARMY SECURITY ACENCY

l Incl Amendment in dup /s/S Kullback
S KULLBACK
Chief, Research and Development
Division

SIGLG-3-HS (11 Oct '46)

1st Ind.

"D, OCSigO, 'Ashington 25, D C, 15 October 1946

To Chief, army Security agency, The Pentagon Building, "ashington 25, D C Attn lir Stauffer

This is to advise that amendment covering subject case was filed in the Patent Office on 14 October 1946.

FOR THE CHIEF SIGNAL OFFICER

l Incl w/d /s/ Harry M. Saragovitz
HARRY M. SARAGOVITZ
Asst. Chief, Patents & Inventions Branch
Legal Division.