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HEADQUARTERS  
ARMY SECURITY AGENCY  
WASHINGTON 25, D. C.

WDGAS-71

11 October 1946

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

TO: Chief Signal Officer  
Director, Legal Division  
Patents and Inventions Branch  
4C 274, The Pentagon  
Washington 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 CHIEF, ARMY SECURITY AGENCY:

*S. Kullback*

S. KULLBACK  
Chief, Research and Development Division

1 Incl  
Amendment in dup

SIGLG-3-HS(11 Oct'46) 1st Ind

WD, OCSigO, Washington 25, D.C., 15 October 1946

To: Chief, Army Security Agency, The Pentagon Building, Washington 25, D.C.  
Attn: Mr. 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:

*Harry M. Saragovitz*

HARRY M. SARAGOVITZ  
Asst. Chief, Patents & Inventions Branch  
Legal Division.

1 Incl:  
w/d

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 Amendment in dup

S. KULLBACK  
 Chief, Research and Development Division

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*Handwritten notes:*  
 HBF  
 10-10-46  
 Sig  
 [Signature]

I N T H E  
U N I T E D S T A T E S P A T E N T O F F I C E

IN RE: Application of	*	
WILLIAM F. FRIEDMAN and	*	
JOSEPH O. MAUBORGNE	*	
Serial Number	*	Division 16
478,868	*	Room 305
Filed	*	
12 March 1943	*	
For	*	
SYSTEM FOR ENCRYPTING	*	
FACSIMILE	*	
* * * * *		

AMENDMENT

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

Sir:

This is in response to Patent Office action of 16 October 1943  
in the above identified application.

The case is being prosecuted under the three-year rule.

Please amend as indicated below.

IN THE CLAIMS:

Claim 4, line 6 - Before "the" insert - means for balancing - .  
line 6 - Cancel "being balanced".  
line 16- Before "the" insert - means for balancing - .  
line 17- Cancel ", being balanced".

Please add the following claims.

6

11. In a facsimile privacy apparatus, a first device for scanning a subject, a lamp associated with said device the intensity of its illumination being varied responsive to the output of said device, a second device for scanning a subject concurrently with the first device the output of said second device acting on said lamp to vary the intensity of illumination thereof, and light sensitive means for providing a signal responsive to the illumination of said lamp.

7

12. In a facsimile privacy apparatus, a first device for scanning a subject, a lamp associated with said device the intensity of its illumination being varied responsive to the output of said device, a second device for scanning a subject concurrently with the first device the output of said second device acting on said lamp to vary the intensity of illumination thereof, light sensitive means for providing a signal responsive to the illumination of said lamp, another lamp and means for varying the intensity of its illumination in response to the output of said light sensitive means, another light sensitive means responsive to said other lamp, means for effectively subtracting from the output of said other light sensitive means a signal equivalent to the output of said other device, and means for graphically recording the result.

*Cancel 7 Dec 48*

*2nd Amendment*

~~13. The method of obtaining a private facsimile signal which includes varying a translating device in response to a signal from the subject (to be transmitted) and concurrently varying the translating device by another signal.~~

*Cancel added Claim 9*

## REMARKS

Claim 4 has been amended to specify means for balancing the outputs of the amplifying circuits. The claim as amended is believed to overcome the Examiner's rejection for indefiniteness.

New Claims 11, 12, and 13 are directed to apparatus and a method for obtaining privacy in facsimile communications through a concept believed new with the applicants. Of the references cited, only Pierce, 1,312,974, embodies the addition of signals, and the "addition" of this patent consists of blocking out one of the signals. Applicants effectively add and subtract by means of bridge circuit 11-13, and apply the true sum or difference current to translating device 14.

Reconsideration is requested.

Respectfully,

WILLIAM F. FRIEDMAN and  
JOSEPH O. MAUBORGNE, Applicants

By \_\_\_\_\_  
Their Attorney