REF ID:A105101

WAR DEPARTMENT Office of the Chief Signal Officer Washington 25, D. C.

In reply refer to: SIGLG-3HMS

8 September 1947

Subject: Applications of William F. Friedman, S.N. 478,868 and 473,193

To: Chief, Army Security Agency The Pentagon Building Mashington 25, D. C.

Attention: Mr. Stauffer

Inclosed herewith is a copy of Patent Office actions dated 22 April 1947 for each of the above-mentioned applications. The delay in forwarding these actions is regretted.

FOR THE CHIEF SIGNAL OFFICER:

/s/ Harry M. Saragovitz (ep) HARRY M. SARAGOVITZ Patent Counsel Legal Division

2 Incls Pat Off actionsre S. N. 478,868 and S. N. 478,193

<u>Approved for Release by NSA on 09-11-2013 pursuant to E.O. 13526</u>

## REF ID:A105101

1. There is no apparent objection to the downgrading of this material or its commercial exploitation

2 The most important problem involved in downgrading cryptographic information is the protection of systems in use or considered for use by the United States. After this, release of any cryptograph, should, it seems, be conditioned by the answers to the questions

a. Is there involved a novel cryptographic principle, solution of which is unknown?

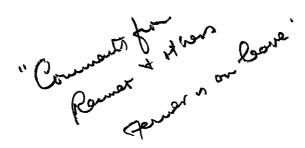
b. Would problems of intercept be enhanced by the use of the cryptograph?

3 To the immediate problem, the answers are as follows

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a The Vernam rule is a well-known cryptographic principle. Alt hough it is generally thought of as directly related to teletype, its application to facsimile is a logical extension

b. Intercept of material enciphered by this device presents no greater problems than those involved in the intercept of clear facsimile  $E_n$  ciphered transmissions could, as a matter of fact, be recorded by standard facsimile equipment.



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	Sep <sup>1</sup> 45 Room 662	EML g		PATENT OFFICE 22 1947 I HD Paper No 7
Commissioner of Patents				
RICHIOND 20, VIRGINIA				
Please find below a communication from the EXAMINER in - charge of this application. /s/ Casper W. Ooms, Commissioner of Patents.				
		Applica	ant	Wn F Friedman et al
Wm D. Hall c/o The Chief Munitions Bldg Washington, D		Ser. No Filed For	2	478,868 March 12,1943 SYSTEM FOR ENCIPHERING FACSINILE 22
The Secrecy Order of record in this a plication has been rescinded by				
the General Rescinding Order dated August 30, 1945 effective November 30,				
1945 <b>, 5</b> 78 0 G	281			
	Responsive to amendment filed Oct. 14, 1946.			
Additional reference made of record.				
Finch	2,066,261 Dec.29,1	L936		178–5
	The original of this e	applicat:	lon (	consisted of
claims 1 to 5.				
Claims 11 to 13 added in the amendment of				
Oct. 18, 1946 have been renumbered to read claims 6 to 8				
Claim 8 is rejected on the grounds of reading				
directly on the Finch reference above citcd.				
	Claims 1 to 7 appear a	at presea	nt to	o be allowable

## Examiner

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