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THRII:	IS-80 FROM	DATE	SUBJECT
	AS-71	1 i	Applications for Patent - SN 478,193 and SN 478,868
40-70	HO-/1		Apprications for Fatent - 5N 470,195 and 5N 470,000
1.	Inclosu	res 1 and	2 are forwarded for evaluation and return.
		ntions ma	are currently classified confidential. The question is y be declassified so that patents can issue and be
• 3.	Both di	sclosures	relate to facsimile privacy apparatus.
picture signals are alid unlike words,	black and The du are adde te (both currents according	white me mmy messa d by a sy "ons" or result in	r 478,193 involves the derivation of an on-off signal ssage (picture) and another on-off signal from a dummy ge may or may not be intelligible in itself. The two stem of relays so that, when message and dummy signals both "offs"), an off signal is transmitted while two the transmission of an on signal. This is, in other o-called Vernam rule. At a receiving station, the dummy ted.
except	that add:	tion is a	r 478,868 describes a system essentially like the above ccomplished by tubes instead of relays.
necessa	y, from	Chief, AS	-72. 7 MAY 1947
2 Incls 1. Pa 2. Pa	at Appn S at Appn S	SN 478,193 SN 478,868	S. KULLBACK, Chief Research Laboratories Division61
Thru: AS-90 To:	AS(80	9 May 47	The Security Division has no objection to the declassification and release of these patent application
AS-71			H.L. blark
2 Incls n/c			for A. SINKOV Chief, Security Division Extension 241
DGAS Form No	4079		PAGE NO. 1



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5° °	AS-71	19 May 47	Woehlke for recommendations and comments regarding paten
יד, די	AS-11	(applications of William F. Friedman, serial numbers
• •		5	478,193, - 478,868, and 551,172, numbers 478,193 and
4783868	were cir	culated t	applications of William F. Friedman, serial numbers 478,193, - 478,868, and 551,172, numbers 478,193 and hrough AS-80 and AS-90.
478;868 2.	were cir Certain	culated t	applications of William F. Friedman, serial numbers 478,193, - 478,868, and 551,172, numbers 478,193 and
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	TO	FROM	DATE	SUBJECT	REF 110-1 A363452	Ι.
			1		Applications for Patent - SN 478, 193	[`
3.	AS-70	AS-90	<u>15 May</u>	<u>1947</u>	and SN 478,868 (cont'd)	
					Operations Division has no objections to declassifying and release of these patent ications.	
	c 2 Inc n/c ~77.				FRANK B. ROWLETT Chief, Operations Division Ext. 315	
4.	AS- 20	AS-71	23 May 4	Woehlk applic 478,19	In response to the oral request by Captain the for recommendations and comments regarding patent eations of William F. Friedman, serial numbers 03, 478,868, and 551,172, numbers 478,193 and 58 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. 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.

4. It is recommended that the three applications be declassified in accordance with the policy established by a memorandum for Chief, Army Security Agency, from War Department General Staff, Military Intelligence Division, G-2, 29 April 1946, subject: Release of Cryptographic Principles, as modified by a letter from Chief, Army Security Agency, to AS-70, AS-80, and AS-90, 10 April 1947, subject: Procedure for Release of Information Concerning Secrecy Patents.

5. Return of the copies of the applications is requested.

Kullebach

S. KULLBACK, Chief Research Laboratories Division Ext. 284

PAGE NO.

3 Incls

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3. Pat Appn SN 551,17:



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THRU TO:	to AS-24 AS-20	from AS-14	DATE 3 June	SUBJECT Applications for Patent - SN 478,193, $_{47}$ SN 478,868, and SN551,172
5.	invent	n view or of t	of the hese pa	fact that I am an interested party as the tents, I prefer not to go on record as either ring the declassification of these patents.
				WILLIAM F. FRIEDMAN Chief, Communications Research Ext 215
6	A S- 24	AS-20	5 June 4	7 Maj. Whitehead Ext 216 Materiel Section, Staff has no objections to the declassification of subject patents.
	3 Incl n/c			ARTHUR V. WHITEHEAD Major, Signal Corps Chief, Materiel Section, Staff Ext. 216
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Ī	TO	FROM	DATE	SUBJECT					
	AS-10	AS-23	5 June 47	Applications	for Patent	- SN	478,193	and SI	N 478,868
								Capt.	Woehlke/462

1. Patent Applications (Systems for Enciphering Facsimile), Serial Nos. 478, 193 and 478,868 basically employ the Vernam rule for enciphering a black and white picture signal with a during black and white picture signal. The during picture signal is employed in the nature of a key. The difference between the two cases is that Serial No. 478, 193 utilizes relays and Serial No. 478,868 employs tubes to perform the combining function.

2. Patent Application, Serial No. 551,172 (Authenticating Device) employs rotors, a rotary switch with a plugging arrangement, and a strip of random numbers. A current passing through the predetermined connections of plugs and arrangement of the rotors will light a lamp which will give a number which may be used as an authenticator.

3. Patent Applications, Serial No., 478,193 and 478,868 were circulated by AS-70 to AS-80 and AS-90 in accordance with current policy.

4. Patent Application, Serial No. 551,172 was not circulated at this time since the application was never classified. The Assistant Chief, Signal Security Agency approved the application for filing as an unclassified patent application on 21 August 1944 (Inclosure 1).

5. AS-70, AS-80, and AS-90 agree that the patent applications may be declassified so that patents can issue.

6. Recommend signature of the attached Disposition Form.

3 Incls

1. Routing & Work Sheet, subj: Authenticating Device

 Patent Applications Serial Nos. 478,193; 478,868; 551,172
Disp Form to CSigO for sig

PAUL E. NEFF

Lt. Golonel, Signal Corps Acting Deputy Chief Army Security Agency Ext 498

signed this date ASIO

PAGE NO. 3