REF ID:A70726-

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29 FEB 1952

Armed Forces Security Agency, Washington 25, D. C.

TO: Judge Advocate General, Department of the Army

- \_ l. An investigation of the background of the subject bills has been completed.
- 2. Reference is first made to the letter of 5 July 1951, from the Judge Advocate General, Department of the Army, to the Director, Armed Forces Security Agency, and particularly paragraph 10 thereof, and the information and comments below relate thereto.
- a. Thether Mr. Friedman has accomplished anything which "warrants" compensation beyond what he has already received in the form of salary and commendations is impossible to say. It is this question that the Congress must determine. It can, however, be said

Declassified and approved for release by NSA on 03-18-2014 pursuant to E.O. 13526

(Basic Itr: JAG, D/A, of 20 December 1°51, subject: H. R. 5728, 82d Congress, 1st Session, a bill "For the Relief of William F. Friedman" and S 2283, 82d Congress, 1st Session, a bill, "For the Relief of Filliam F Friedman") 1st Ind (cont) Serial: 369

29 FEB 1952

that his inventions over a period of years have been of very substantial value to this Government and its allies. It can also be said that this situation differs from the <u>Gerand</u> case in its secreey aspects; classification was not involved in the <u>Garand</u> matter

- b. The problem of ownership of the inventions has been in question on several occasions not only in the Army Security Agency, but in the Signal Corps and, it is believed, in your office as well, but no final determination has ever been made. During a large part of the employment of Mr. Friedman, he has been a party to various agreements deployment that he was "employed to invent" but seldom, if ever, has there been direction to invent any specific thing. His duties have, by and large, been those of a chief cryptologist
- e Estimation of the commercial possibilities of the Friedman inventions is difficult—as far as is known here, relatively little commercial use is made of privacy systems in this country except in banks and other financial organizations, and their use of business codes is commonly dictated as much by economy considerations as security, nevertheless, it cannot be said that a market for high-grade ciphering machines could not have been developed. Moreover, in the absence of security considerations, it is likely that a substantial market for the inventions could have been developed among foreign governments. Future commercialization is subject to the same difficulties of evaluation
- of Mr. Friedman's inventions, none at least by or in behalf of the United States Government. Foreign use, in other words, has been confined to the military services of the United States and its allies, and, thus, within the scope of the usual Government licenses.
- 3. Referring generally to compensation for Mr. Friedman on account of his inventions, I feel very strongly that it should not be in the nature of a reward, notwithstanding the virtues of his inventions and their unquestioned value to the United States and its allies over a period of many years. It does appear to me, on the other hand, that, if the inventor has been denied an opportunity to realise commercial benefit only because his inventions were in a sensitive field and, more significently, only because they were important in that field, then his treatment, relative to the treatment of other Government inventors, has not been equitable.

(Basic ltr: JAG, D/A, of 20 December 1951, subject: H R 5722, 82d Congress, 1st Session, a bill "For the Relief of William F. Friedman" and S. 2233, 82d Congress, 1st Session, a bill, "For the Relief of William F. Friedman") 1st Ind (cont.) Serial: 369

29 FEB 1952

- 4. Considering especially the matters raised in paragraph 5 of the basic correspondence, I fail to see that the special agreement between Mr. Friedman and the Government has substantial bearing on the principle underlying the subject bills. Since certain of the inventions were made before the date of the agreement, it would, at most, influence the amount of the recovery.
- 5 Furthermore, if there is merit at all in the theory on which the bills are based, then it appears that exercise by the Chief Signal Officer of his rights under the 1936 contract would not be compensation with respect to inventions made even after that date, but only with respect to loss of commercial rights after assignment might be requested (or accomplished). Except for security considerations, the inventor could have been attempting commercialization of his inventions for the past fifteen years. To say that no damages accrued during that period merely because the Chief Signal Officer may take title at some date in the future does not seem realistic.
- 6 A complete statement of Mr. Friedman's military and civilian Government service is inclosed. The record shows that he is not now receiving, and has never received, any pension for disability. As will be seen, his salary over a period of years has been above the average for Government employees, but to beae an adverse decision on this circumstance would be equivalent to penalizing an outstanding employee since salaries in the field are no higher than elsewhere in the Government.
- 7. I feel that Public Law 700 provides little basis for any claim by Mr. Friedman. Such a claim, as I understand it, must represent compensation for use by the Government, and the Government has had, by license or assignment, the free right to use all of the inventions. It is furthermore true in any case that a claim under Public Law 700 must be based upon a patent, and no patents covering significant inventions have as yet issued. There has been, in other words, no use or, at most, inconsequential use of patented inventions but substantial use of inventions of pending applications. It may be noted that Mr. Friedman has consistently disclaimed any intention to bring suit under Public Law 700 or any other statute.

JAG, D/A, of 20 December 1951, subject: H. R. 5728, 82d Congress, 1st Session, a bill "For the Relief of William F. Friedman" and S 2283, 82d Congress, 1st Session, a bill, "For the Relief of William F. Friedman") Serials lst Ind (cont.)

29 FEB 195%

Based on the facts before me, and in the absence of a well-defined Government policy, I feel that I should not oppose kr. Friedman's efforts to obtain legislative relief. This is especially true since I am convinced that in the long run am organization such as the Armed Forces Security Agency will suffer if. relative to other organizations, it must offer less not only of public recognition but also of material gain to men of outstending intelligence, ingenuity, and skill.

'sgd) Roloh I Con na

RALPH J. CANDNE Major Ceneral, V. S. Army Director, Armed Forces Security Agency

Inclosures - 3 1, 2 - n/a**bebb**A Record of Service, William P. Friedman

CC:w/incl 3 11 (3)12 301 (2)Chief, Plans &

> HBSTAUFFER ILPASSA 293 302L 17233L6 Feb 52

Note: Incls 1 & 2 were the House and Senate bills, respectively

Patent Atty

Chief, R & D

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Serial:

Armed Forces Security Agency, Washington 25, D C

Judge Advocate General, Department of the Army, ATTENTION Lieutenant Colonel Willard J. Hodges, Jr., Chief, Patents Davision

- l An investigation of the background of the subject bills has been completed
- 2 Reference is first made to the letter of 5 July 1951, from the Judge Advocate General, Department of the Army, to the Director, Armed Forces Security Agency, and particularly paragraph 10 thereof, and the information and comments below relate thereto
- a Whether Mr Friedman has accomplished anything which "warrants" compensation beyond what he has already received in the form of salary and commendations is impossible to say. It is this question that the Congress must determine It can, however, be said that his inventions over a period of years have been of very substantial value to this Government and its allies. It can also be said that this situation differs from the Garand case in its secrecy aspects, classification was not involved in the Garand matter.
- b The problem of ownership of the inventions has been in question on several occasions not only in the Army Security Agency, but in the Signal Corps and, it is believed, in your office as well, but no final determination has ever been made During a large part of Mr Friedman's employment, he has been party to various agreements declaring that he was "employed to invent" but seldom, if ever, has there been direction to invent any specific thing His duties have, by and large, been those of a chief cryptologist
- c Estimation of the commercial possibilities of the Friedman inventions is difficult. As far as as known here, relatively little commercial use is made of privacy systems in this country of the in banks and other financial organizations, and their use of business

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codes is commonly dictated as much by economy considerations as security, nevertheless, it cannot be said that a market for high-grade ciphering machines could not have been developed. Moreover, in the absence of security considerations, it is likely that a substantial market for the inventions could have been developed among foreign governments. Future commercialization is subject to the same difficulties of evaluation

- d So far as is known, there has been no commercial use abroad of Mr Friedman's inventions, none at least by or in behalf of the United States Government Foreign use, in other words, has been confined to the military services of the United States and its allies, and, thus, within the scope of the usual Government licenses
- 3 Referring generally to compensation for Mr Friedman on account of his inventions, I feel very strongly that it should not partake of the nature of a reward, notwithstanding the virtues of his inventions and their unquestioned value to the United States and its allies over a period of many years
- It does appear to me, however, that, if the inventor has been denied an opportunity to realize commercial benefit only because his inventions were in a sensitive field and, more significantly, only because they were important in that field, then his treatment, relative to the treatment of other Government inventors, has not been equitable
- Mr Friedman's salary over a period of years, as will be seen from Inclosure 3, has been above the average for Government employees, but to base an adverse decision on this circumstance would be equivalent to penalizing an outstanding employee since salaries in the field are no higher than elsewhere in the Government
- I feel that Public Law 700 provides little basis for any claim by Mr Friedman Such a claim, as I understand it, must represent compensation for use by the Government, and the Government has had, by license or assignment, the right to use all of the inventions It is furthermore true in any case that a claim under Public Law 700 must be based upon a patent, and no patents covering significant inventions have as yet issued. There has been, in other words, no use or at most inconsequential use of the inventions of any patents. It may be noted that Mr Friedman has consistently disclaimed any intention to bring suit under Public Law 700 or any other statute.
- A complete statement of Mr Friedman's military and civilian Government service is inclosed The record shows that he is not now receiving, and has never received, any pension for disability

Based upon the facts before me, and in the absence of any Government policy generally covering situations such as this, it is my feeling that, while I should not vigorously support the inventor's position, I should also not take strong action to defeat his course of action

> RALPH J CANINE Major General, U S Army Director , Armed Forces Security Agency

3 Incls 1 n/e n/c 2 Added 1 Incl Record of Service

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Kd by 12-25 Jan 52 Whater 28 Jan 52

## RECORD OF SERVICE Civilian (Government)

# WILLIAM FREDERICK PRIEDMAN

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NATURE OF ACTION	Position and - Grade	Basic Salary	EFFECTIVE DATE	DEPARTMENT, BURGAU, AND LOCATION
Excepted appointment in Civil Service	Gryptanalyst	\$4500	31 Dec 21	OCSigo, Wash , D C.
Reclassification	Cryptanalyst	\$5200	1 Jul 24	Same as above
Promotion	Cryptanalyst	\$5600	1 Jul 28	Same as above
Pronotion _=	Cryptanalyst	<u>\$</u> 5800	_ I Jul 38	Same as above
Furlough to Military Service	***	#=	23 Dec 40	U S. Army
Return from Hilitary Service	Cryptanalyst P-6	\$5800	16 Apr 41	OCSigO, Wash , D C.
Administrative Promotion under Ramspeck Act	Cryptenalyst P=6	\$6000	1 Oct 41	Same as above
Promotion	Head Gryptenelyst	\$6500	9 Apr 42	Same as above
Promotion	Director of Comm Research P-8	\$8000	24 How 42	Same as above
Weritorious Within-Grade	Same as above	\$8250	16 Mar 44	Same as above
Classification authorised	_	\$9275	21 Jan 47	Army Security Agency Washington, D C
Excepted Apptmt Schedule B-4-III	Chief, Comm Research	\$10000	4 Hay 47	Same as above
Excepted Apptint	Cryptologie Consultant P-8	\$10330	29 Apr 49	Same as above
Step Increase	Cryptologic Consultant GS-15	\$10750	30 Oct 49	Same as above

# record of service (cont'd)

### WILLIAM FREDERICK FRIEDMAN

	Civi.	lian (Gover	ment)	·
NATURE OF ACTION	POSITION AND GRADE	Basic Balart	EFFECTIVE DATE	DEPARTMENT, BUREAU, AND LOCATION
Excepted Apptat	Research Consultant G\$-15	\$10750	25 Dec 49	Armed Forces Security Agency, Mash , D C.

#### Military

Service	Rank	Period of	Service	Active Duty
National Army	lst_Lt	3 Jun 18	15 Apr 19	3 Jun 18 5 Apr 19
Signal Reserve, ORC	Captain	_ 4 Ney 22	6 Dec 25	9 Dec 24 23 Dec 24
	Major	7 Det 25	2 Nov 36	8 Dec 25 22 Dec 25
- Andrews - Andr	and an de-			8 Dec 26 22 Dec 26 6 Dec 27 19 Dec 27
~	and the same		_	5 Dec 28 18 Dec 28
75	<del></del>	4- 3t		- 2 Dec 29 15 Dec 29
		Marin Time		14 Sep 30 27 Sep 30
	Lt. Col.	3 Nov 36	15 Apr 41	12 Jun 38 25 Jun 38
	7			23 Dec 40 15 Apr 41
Officers Honorary	Lt. Col.	2 Jun 49	Date	
Retired List	The second second	** - *********************************		

# RECORD OF SERVICE Civilian (Government)

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	PATEL LANGE TO LEAD	

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NATURE OF ACTION	Position And Grade	Basic Salary	EFFECTIVE DATE	DEPARTMENT, BUREAU, AED LOCATION
Excepted appoint- ment in Civil Service	Cryptanolyst	<b>\$4500</b>	31 Dec 21	ocsigo, Wash , D. C.
Reclassification	Cryptanalyst	¢5200	1 Jul 24	Same as above
Promotion	Cryptanalyst	\$5600	1 341 28	Same as above
Promotion	Cryptanalyst	\$5500	1 Jul 38	Same as above
Purlough to Military Service	- Charles	*****	23 Dec 40	u s army
Return from Bilitary Service	Cryptenalyst P-6	\$5800	16 Apr 41	OCSigO, Wash , D G
dministrative Promotion under Ramspeck Act	Cryptanalyst P-0	\$6000	1 Oct 41	Same as above
romotion	Read Cryptenalyst	\$6500	9 Apr 42	Same as above
	- P-7	nga anna gan		The second secon
Prosotion	Director of Comm Research F-8	\$8000	24 Nov 42	Some an above
Seritorious Fithin-Grade	Same as above	\$8250	16 Ner 44	Same as above
Classification authorized	**************************************	\$9275	21 Jan 47	Army Security Agency Washington, D C
Excepted Apptant Schedule B-4-III	Chief, Comm Research	\$10000	4 Ney 47	Same as above
Excepted Appliet	Cryptologie Consultant P-8	\$10330	29 Apr 49	Same as above
Step Increase	Cryptologie	\$10750	30 Oct 49	Same as above
	Consultant GS-15			

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#### RECORD OF SERVICE (cont'd)

WILLIAM PREDERICK FRIEDMAN

	Civilian (Government)								
NATURE OF ACTION	Position and grade	Basic Balary	BFFECTIVE DATE	DEPARTMENT, BUREAU, AND LOCATION					
Excepted Appent	Research Consultant GS-15	\$10750 -	25 Dec 49	Armed Forces Security Agency, Wash , D C					

Kilitary Service Rank Period of Service Active Duty National Army lst Lt 15 Apr 19 3 Jun 18 3 Jpn 18 5 Apr 19\_ Signal Reserve, OSC Captain 23 Dec 24 6 Dec 25 9 Dec 24 4 New 22 Major 2 Nov 36 \$ Dec 25 22 Dec 25 8 Dec 26 22 Dec 26 19 Dec 27 18 Dec 28 6 Dec 27 5 Dec 28 2 Dec 29 15 Dec 29 14 Sep 30 27 Sep 30 Lt. Col. 25 Jun 38 15 Apr 41 12 Jun 38 23 Dec 40 15 Apr 41 Officers' Honorary 2 Jun 49 Date Retired List

### RECORD OF SERVICE Civilian (Government)

TILLIAN PREDERICK PRILIMAN

HATURE OF ACTION	Position and Grade	BASIC BALARY	BPFECTIVE DATE	DEPARTMENT, BUREAU, AND LOCATION
Excepted appoint- ment in Civil Service	Cryptanalyst	£4500 -	31 Dec 21	OCSigO, Wash , D. C
Resissification	Cryptanalyst	\$5200	1 301 24	Same as above
Promotion	Gryptanalyst	<b>\$</b> 5600	1 Jul 28	Same as above
Pronotion.	Cryptanalyst	\$5800	1 301 38	Same an above
Perlough to Eilitary Service		<del></del>	23 Dec 40	u s army
Return from Military Service	Cryptenalyst P=6	\$5800	16 Apr 41	OUSigo, Wash , D C
Administrative Promotion under Remspeck Ast	Cryptanalyst 7-6	\$6000	1 Oct 41	Same as above
Promotion	Head Cryptanalyst P-7	<b>\$</b> 6500	9 Apr 42	Same as above
Promotion	Director of Comm Research	\$5000	24 For 42	Same as shove
Heritorious Fithin-Grade	Same an above	\$8250	16 Nar 44	Same as above
Classification authorized		<del>\$</del> 9275	21 Jan 47	Army Security Agence Washington, D. C
Excepted Apptet Schedule B-4-III	Chief, Com Recearch	\$10000	A Boy 47	Same as above
Excepted Apptat	Cryptologie Consultant P-8	\$1.0330	29 Apr 49	Same as above
Step Increase	Cryptologie	\$10750	30 Oct 49	Same as above
lafae perval	Consultant 36 95-15 2	9 FEB 195 <b>2</b>		

## RECORD OF SERVICE - (cont'd)

### WILLIAM PREDIRICK FRIEDLAN

	Civilian (Government)								
FATURE OF ACTION	POSITION AND GRADS	Basic Balany	RFFECTIVE DATE	DEFARTMENT, BURGAU, AND LOCATION					
Excepted Appliet	Research Consultant 63-15	\$10750	25 Dec 49	Aread Forces Courity Agency, East., B C					

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Service	Rank	Perio	d of Se	rvio		ويفادية والمتاركة وا	AØ	tive	Dut	7	والمراجعة المراجعة
Hational army	let Lt	3 Jun 1	l <b>s</b> 15	Appr	19	3	Jun	15	5	Apr	19
Signal Reserve, ORC	Captain	4 Noy 2	ta 6	Dec	25	9	Doe	24	23	Dec	24
	Major	7 Dec 2	25 2 	Nov	<b>36</b> -	8 6 5 2	Dec Dec Dec Dec Sep	20 20 20 20 20	22 19 18 15	Dec Dec Dec Dec Dec Sep	26 27 28 29
	IA Col.	3 Kar )	16 15 . ~	Ape	41 =- =	12	Jun	38	25	Jun Aper	35
Officers' Sonorary Retired List	Lt. Col.	2 Jun 1	(9 Da	te	<b>.</b> ,						

REF ID: A70726-

Inclosure I to LFSL Seriel

Job Descriptions:

SS-14/Director of Communications Research, P-8 Director of Communications Research, P-8, \$8,000 Technical Director of Security Activities, P-8, \$8,000 Job Sheet dated March 16, 1942 Appointment dated November 16, 1921

Note In accordance with instructions from Colonel Marck, references to classified information were deleted

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Inchosure 2 to AFSA Seriel

Signal Corps Patent Board Minutes:

Meeting No 2, April 17, 1936 Meeting No 3, May 26, 1936

REF ID: A70726

inclosure 3 to AFSA Serial

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Memorandungs

Section Heads, November 28, 1942 Mr W F Friedman, War Plans and Training Division Secrecy for Certain Patents, December 1, 1939 Administration Section, October 31, 1921

Note In accordance with instructions from Colonel Marcy, references to classified information were deleted

Sold - Cold in paragraph 50 the horac consumer unc I fail tisee that the species agreement Alleveen Mr. Fo the Soverment has pobstantial bearing on the principle The western were made before the date of the agreement, other theory two the and of the The front which theory on which the Illoan based, then it appears that shouse by the CSO of his right unde the 1936 centract would not bar recovery with respect & unouteurs made even after that date, but only want to have respect insusation for loss of commenced be requisted (ir arem should) The inventor Toda, and to a scater

REF ID:A70726 for security courterations, the Id have been attempting calculation of his for the past fiftee scare. To say that perody hecause the SO may take site at some date in the future doe not seem realistic.