• •							
		CONTROL OF					•
101	OUCIUS.	התושטט		717 71	II. OITIM	TION	
				بخاص المستحد		فحاليبونيه	
li a k		: ONLY	- ' '				

7 January 1952

	•			Ţ.	CONFERENCE		EO 3.3(h)(2) PL 86-36/50 USC 3605		
		ı				•	DI 86-36/50 USC 3605		
	Part I.	The	Chronology of	Events			1 2 00-30/30 030 3003		
							:		
							\		
							\ \		
							\ \ \		
							\		
							\		
							\		
							\		
•									
							\ \		
							\		
							\		
							\		
							\		
							\setminus		
							\		
•									
,							l		
							l		
							l		
							l		
							l		
							l		

TOP SECRET SUEDE

OP DE TITTE CHIEF	EO 3:3(n)(2)
Part II. The Devices Discussed.	PL 86-36/50 USC 3605
1. The	
random binary digits. An irregular alternate threshold activates the firing of a two stagits stage every two microseconds. The periodical about 50 microseconds and 35 periods are this being determined by the final stage of consecutive digits are used to form one of the machine this is accomplished by the setta "Christmas tree") of relays and these send is plugged to an electric typewriter. A settype in the machine uses the digits to control that the machine contains two independent kethe other to operate an electric typewriter. taneously. Counters are attached to both our by setting switches on the machine, various of the 32 characters can be used to control digits two of the 32 characters are suppressin ten sets of 3 to print digits. For producing are suppressed. In addition the printing can groups of 4 or 5 characters, and spacing between lines, and between pages can be varient further ways. In order to produce three letters Q and Z can be suppressed in the fir suppressed. Random alphabets may be produce after its first occurrence. It takes on an a random alphabet in this way. By spacing prepare reciprocal alphabets or stecker pair	ge thyratron tube, which changes and of this alternating current used to produce one binary digit, the thyratron tube. Five the 32 Baudot characters. In ting of a "pyramid" (what we call impulses through a wire which cond key generator of the same rol the punching of a 5-level tape by generators, one to produce tape these can both be run simulatouts and record the results. combinations and suppressions the printer. For producing sed and the rest are combined ucing letters 6 of the 32 to be controlled to produce tween characters between groups, and. Suppressions can be made letter call sign groups the est position and the group SOS also do by suppressing each letter average 22 seconds to produce troperly this may be used to sings.
	EO 3.3(h)(2)
2. The Automatic Device.	PL 86-36/50 USC 3605
This is simply a device for combining two It appears to be the same as the SIGTOT device. They seem to feel that invention from a commercial standpoint.	
3. The Wired Wheel Ciphering Device.	
This device is to use 10 wired wheels. direction through 5 of the wheels, the other There are to be no pluggable features. The noticed by us, but no comment was made to the	5 controlling the stepping. similarity to the ECM was

that this is an independent discovery of the ECM principle

TOP SECRET SUBDE

4. The Low Echelon Enciphering Device.

This is to be a device which slides two random alphabets against each other.

5. The Ciphony Device.

EO 3.3(h)(2) PL 86-36/50 USC 3605

The discussion of this was on very general terms, mentioning time delay, noise addition, inversion, and other known principles of enciphering sound. He was endeavoring to produce a device which would give the most fathful possible reproduction of the sound. The only real novelty mentioned was a method of recording sound magnetically on a disc using some new coating. This was alleged to be vastly superior to magnetic tape.

GTO TTT.	THE TOPHICAL THE	orrrRenge.			
art IV-	Recommendation.		•		

EO 3.3(h)(2) PL 86-36/50 USC 3605 TOP SECRET SUEDE

TOF SECTION SOUDIE

3

U. S. EYES ONLY	 ٠.	 .·	

Marshall Hall, Jr.

MARSHALL HALL, JR.

LCDR, U. S. Navy

EO 3.3(h)(2) PL 86-36/50 USC 3605