	(See Note A) Nomenclature	Total	·	B7280 Note D) (So Note E) (See Note F) Prod. Agency
$\frac{\mathtt{No.}}{}$	Designation.	Quantity Procured	Unit (Cost	or Technical Patent Manufacturer Literature Status
1	Converter M-134-T-1	1	Unknown	Signal Gorps Exhibit No.   U.S.Patent (5)   H2,028,772   Henmouth, N.J.   issued 28Jan 36
2	Converter M-134-T-2	2	Unknown	ر کے بر اس
3	Converter M-134 (SIGHIC)	12	\$2,135.	Section 1975
4	Converter M- 34-A (SIGMYC)	56	\$2,400	Exhibits N See Item #2
5 .	Keying Unit M-229	1	\$2,955	Signal Corps  None
6	Keying Unit M-229 (SIGGOO)	<b>7</b> 5	<b>\$</b> 500	Wallace & Tiernan See Item (10) Products, Inc. Exhibit: No. #5
7	Converter M-134-C (SIGABA)	3,330	\$1,567	Chicago, Ill.  Chicago, Ill.  Army: U.S.  Pat. Applica- tion No. 70,412 (3) in secrecy status Navy: (Some have been filed; details not known)
8	Converter M-161-C	2	\$12,132	Exhibit Covered (12)
A	Sonverter MX 218/W	130	Unkcowa	None Governd (13)
10	Pluggable rotor (\$26HEK)	7,000	\$26 <del>\</del>	Gorone Tyepwriter Co, Syracuse, N.Y.

Declassified and approved for release by NSA on 09-12-2013 pursuant to E.O. 13526

REF ID:A273728

Item No.	Nomenclature or Designation (1)	Total Quantity Procured(2)	Unit Cost(3)	Prod. Agency or Manufacturer	Technical (4) Literature	Patent Status Notes
9	Special Cipher Unit (SIGAMUG)	1,375	\$210	feletype Corp.		1/scn: two (15)
10	Converter M-228	2	\$6,417.5	50 Signal Corps	None with the	See under (16) Item 10 (16)
13	Converter M-228	3,220	<b>\$</b> 526-40	Teletype Corp.	Exhibit	U.S.Pat Appli (17) cation No. 443,320(in secrecy status
14	Converter M-294	1	\$20,000	· + 3 +	None	Cryptographic (18) features covered by application under Item 15.
13	Converter M-294 (SIGNIN)	500	\$2300	<b>3</b> *	Exhibit	Cryptographic (19) features covered by application under Item No. 16
14	Converter M-325	2	\$3,500	L.C.Smith- Corona Type.	None	U.S. Pat. Appli- (20) cation No. 549,086 in secrecy status
15	Converter M-325 (SIGFOY)	12,000	<b>\$</b> 150	<b>54 5</b>	Exhibit	See under Item 14 (21)
16	Converter M-409	1	\$37,300		hone	See under Hem#7 (30)
17	Rotors	8 4	in hereuse	6	Exhibit	
	Rotors  a. AEA 1 (); b. NIN II  e. Foy II	· ?	,	3 -2	<del>Schulo</del> t	

## General notes on Data

- (A) Long title is given first, followed by short title (when one was assigned).
- (3) The total quantity may have been procured under one or more contracts.
- (E) Where two or more contracts were involved, the unit cost is the average of unit costs of the separate contracts.
- (1) Item I was purely an experimental model and was never put into service; available in ASA museum. Cost of development unknown but might be obtained from och records of Signal Corps Fabradories.

(2) The two machines constituting Item 2 were pilot models for Item 3; available in misseum. Cost a cover of corporations but make the corporations of Several Corporations (3) These machines were delivered in August 1938 and were

(3) These machines were delivered in August 1938 and were in service until superseded by Item 6; then destroyed except for one in Museum.

- (4) These machines incorporated some minor modifications in Item 3. Eight machines were purchased from the Var Department by the State Department. All 56 machines were in service for several years.
- (5) This served as pilot model for Item 6; available in ASA museum.
- (6) Keying Unit M-229 replaced the key-tape transmitter of Items 3 and 4 and served as controlling element for stepping the rotors.
- 7 (11) This machine was constituted the principal one used by Army and Navy for intra and inter-service high and medium-echelon classified communications. Preliminary models and pre-production models developed by Teletype Corp; available in Navy museum, This believes that certain patent applications have been a
- 4 (12) These were experimental models constructed in an attempt to produce a smaller and lighter version of Converter M-134-C; available in museum.
- These were experimental models embodying modifications in Converter M 134-C so as to make the latter eryptographically equivalent to Intem No. ; available in maseum.

filed by U.S. Navy personnel to cover special features of this equipment:

Head Notes on the stans letel

(D) Following key numbers signify following
(D) Following key numbers signify following producing or manufacturing againsies:
1. Signal Corps Laboratories, Fort Monmouth, M.
2. Wallace and Tierman Products, Inc., Belle-
ville, neur Jersey.
3. Teletype Corporation, Chicago, Delivois
ville, Neur Jersey.  3. Jeletype Corporation, Chicago, Deinois  4. A.C. Smith-Corona Typomiter Co., Syrocuse,
5. Juny Security Agency (formerly Signal Security
5. Army Security Agamen (formarly Signal Socurity Agency Signal Intelligence Sorvice, etc.) 6. Fourmer Institute, Chicago, Illinois: with many
6. Fournier Institute, Chicago, Delivois und
of about the
0
(F) Under "Patent Status" are given data ralative to
any pakents or pakent applications filed by
U.S. employees evering the or applicable to specific
the specific isom or appleable to specific
features thereof.
U D

- (社本) This item was designed for emergency use with Item 7 in ease of physical compromise of Converter M-134-C, current, retors and key-lists, until new rotors and key-lists could / be issued. Although produced in quantity and issued, it was never used since the emergency never occurred. Nam . They were purchased from the Nam . They
- (25) These Special Cipher Units made Converter M-134-C (Item No. 7) utilizable for Combined Communications (with British only) as one version of a cryptographic machine designated as the CCM (Combined Cipher Machine).
- 170 (26) These were development models for Item No. 11.
- (27) These machines were employed for on-line and off-line teletype and radioteletype communications; machines available in ASA huseum
- (48) Development model, followed by an additional development model before standardizing; available in ASA museum
- 13 (19) These were delivered too late to be employed during actual hostilities; now in storage. A few were used in service tests.
- 14(20) Development model, followed by an additional development model before standardizing, avoilable in ASA museum.
- The State Department purchased 1000 of these machines, put a number of them into service for a short period. Army used them briefly in service tests but the machine was never used extensively because of poor performance.
  - (16) Developmental model, available in ASA museum.
  - (19) This item was the one forming the Subject matter of Scientific Project C-52, Contract OEMan-542, of Office of Scientific Research and Development, National Datama Research Council, Durisim 13. See Vol. 3 of Summan, Technical Council, Durisim 13. See Vol. 3 of Summan, Technical Report of Durisim 13, NDRC, Washinston, 1946, pt. 120-22.

    Report of Durisim 13, NDRC, Washinston, 1946, pt. 120-22.

    Davelopmental works some by Fournier Institute at no cost to the Soverment.
  - (18) Rotors of several types were made. The type used with italine 2, 3, and 4 were Engine Hyle, not reversible or investible; other notors were as of meetible type.