

STANDA FD NO 64

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TO Colonel Marcy, Chief of Staff

DATE 21 February 1952

FROM Mr Stauffer, 302L

SUBJECT Pending Friedman Bills

1 The principal machines and devices covered by applications are:

a SIGABA (serial number 70,412 - Inventors: Friedman and Rowlett) - Approximately 3330 of these machines were built at a cost of \$5,925,000 and were widely used.

b. SIGCUM (serial number 443,320 - Inventors: Friedman and Rowlett) - Approximately 3220 machines were built at a cost of \$1,719,325 05 and were widely used.

c SIGFOY (serial number 549,086 - Inventor: Friedman) - Approximately 12,000 machines were built at a cost of \$1,617,884 25 and were never put into field use.

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2. Application serial numbers 682,096 and 107,244 covered the early approaches to the SIGABA. The machines represented by these applications were not made in large quantities nor widely used; total quantity, probably, less than 100.

3. Patent number 2,395,863 covers a strip cipher device (M-138) which was used to some extent but was not operationally important.

4. Application serial number 478,193 (now patent number 2,552,548) discloses a relay-operated circuit for providing facsimile privacy by combining an intelligence signal with a dummy signal by so-called Vernam addition. This device was never used although Mr. Friedman feels that it provided the basis for much of the later work in facsimile privacy.

HENRY B. STAUFFER
Head, 302L

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