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YFM(SCL) 070  
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FTG:B

SIGNAL CORPS LABORATORIES, FORT MONMOUTH, OCEANPORT, N. J. June 5, 1936.  
TO: Chief Signal Officer, War Department, Washington, D. C.

1. The disclosure of Captain H. G. Miller and Mr. W. F. Friedman does not include sufficient details upon which a decision as regards feasibility and military value may be based. This is particularly true in the absence of any experimental data. As a strictly theoretical consideration and assuming all elements are held in phase, it is conceivable that operation as described may result.

2. In the final analysis the practicability of the system depends upon the exactness of phase and of magnitude of frequency components, which are dependent upon the magnetic positioning and response of the impressing and canceling magnets, the characteristics of the various electrical circuits, and the respective rates of progression of the steel tapes. As shown, the progressive rate of the tapes is also dependent upon a varying drum diameter assuming uniform shaft revolution. In other words the description is confined to the germ of the idea and on that basis none of the practical considerations is discussed.

L. L. CLAYTON  
Major, Signal Corps,  
Director

Incls. withdrawn

*George means:  
in strict spatial relationships  
and of magnetic result*

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## WAR DEPARTMENT

10.

OCSigO 070

OFFICE OF THE CHIEF SIGNAL OFFICER  
WASHINGTON

May 27, 1936

SUBJECT: Invention

TO: Director, Signal Corps Laboratories,  
Fort Monmouth, N. J.

1. Your comments are desired as to the feasibility and military value of the invention of Captain H. G. Miller and Mr. W. F. Friedman, described herein.

2. Upon the return of this communication, it may be forwarded to the Patent Section for action or comment.

By Order of the Chief Signal Officer:

Walter C. Ellis,  
Major, Signal Corps.Incls.  
2 pages of description.