

17 December 1954

Mrs. M. H. MacKay
 Assistant to the Editor in
 Charge of Editorial Production
 Encyclopaedia Britannica
 425 North Michigan Avenue
 Chicago 11, Illinois

Dear Mrs. MacKay:

I return herewith the prints of the two new illustrations which will accompany my article **CODES AND CIPHERS**.

The print of Fig. 9 requires a small correction which I have indicated thereon; the letters F and E should be interchanged in position on the 1st wheel only. However, I think it would improve the picture to add the letters I show on the two tapes in the print. These letters would make clear to the reader that on one tape the machine prints the plain text; on the other tape, the cipher text. I hope this addition will not cause too much trouble; if it does, just forget it.*

As regards Fig. 12, the print is quite correct, but here again, if the letters I have added can be shown on the tapes, the picture would be improved.

Sincerely,

WILLIAM F. FRIEDMAN

Incls:

a/s

- * The letters I have shown on the print are supposed to represent the plain text words **THE QU. CK** and the equivalent cipher text **KPNZI ..RX**. The letter Z here enciphers the space between the words; the space beyond the I in the cipher indicates that the cipher text is automatically grouped in 5's; the dots in this explanation represent letters which are hidden under the cutting bar.