



- A. The Electro Magnet. —
 B. The galvanic battery.
 C. The lever with a pen b or pencil, moving on the point a. —
 a The keeper attached to the lever and kept from the face of the magnet by the spring, e.
 D A ribbon of paper moved regularly by the wheelwork and weight H, H, H, H. —
 k, k. part of the circuit of the helices around A which when closed permits electricity to pass.

Action of the Instrument. —

When k, k, are united the electricity circulates through the helices and A becomes a magnet

Magnet, it attracts the keeper a and brings down the lever C and the pen b or pencil and strikes upon the paper D which is moving at a regular rate by the wheelwork H, H, H, H.

If k, k, is ^{closed and} quickly broken a dot is made on the paper, if suffered to remain closed a line is drawn on the paper, so that a dot, a line, and a space are capable of being made at pleasure. From this capability of making a dot, a line, and a space, I have constructed my Alphabet. —

The rest of the instrument simply regulates the movements as to time and regularity. You have in this hasty sketch the principle of the whole invention.

To the Hon. Archibald A. Linn,
Dear Sir,

Above you have the sketch which you requested and which I think Mr. Foster will find no difficulty in comprehending. —

With great respect Y^r Mo^tob^t Serv^t

House of Rep.

Jan^y. 23. 1843. —

Sam^l. F. B. Morse.

P.S. 3 I enclose my Alphabet as the one in the Report is not printed wholly correct, and also a specimen of the writing made by the instrument, in which ~~it~~^{it} ~~will~~^{also} be observed that the pen writes four copies.

A B C D E F G H I J K L M N O P Q R S
T U V W X Y Z
1 2 3 4 5 6 7 8 9 0

Erva Cornell
Feb 18. 1873