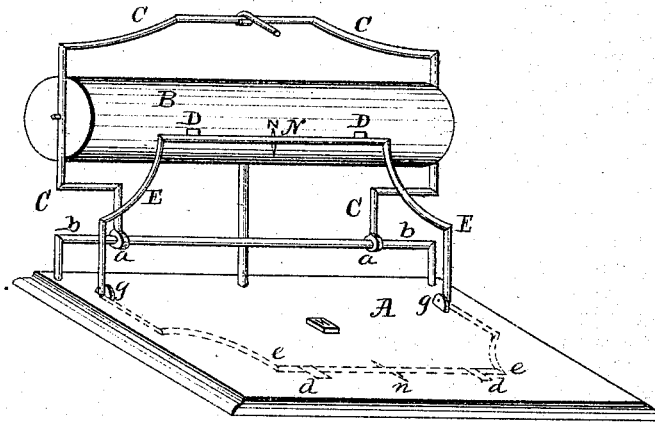


S. T. RYDER.  
TYPE-WRITER.

No. 182,289.

Patented Sept. 19, 1876.



Witnesses.

Wm. J. Danforth  
A. K. Cannon.

Inventor:

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# UNITED STATES PATENT OFFICE.

SAMUEL T. RYDER, OF PLYMOUTH, MASSACHUSETTS.

## IMPROVEMENT IN TYPE-WRITERS.

Specification forming part of Letters Patent No. **182,289**, dated September 19, 1876; application filed May 27, 1876.

*To all whom it may concern:*

Be it known that I, SAMUEL T. RYDER, of Plymouth, county of Plymouth and State of Massachusetts, have invented a new and useful improvement in that class of instruments known as "type-writers," and which is especially applicable to the so-called "Sholes & Glidden Type-Writer," which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

In the use of the Sholes & Glidden type-writer a serious inconvenience is realized in adjusting the paper to be printed to the cylindrical tympan with sufficient accuracy to enable a letter to be struck on a point precisely where it may be needed, or a line to be printed in any nicely-definite direction which may be required, the gaging or other available devices designed for those purposes on those machines being imperfect and inadequate to the direct and convenient accomplishment of these desirable ends.

To obviate these inconveniences I have invented a device which I denominate an "improved line-register and letter-locator," and which will indicate with much greater ease and accuracy a point for a letter and a direction for a line to be printed than any device now in use. This may be more fully shown by reference to the accompanying drawing.

Figure 1—A is the top plate of a Sholes & Glidden type-writer. B is the cylindrical tympan, supported by the frame C C, and is movable vertically on the hinges *a a*, and laterally on the rod *b b*. The improved line-register and letter-locator consists of the indexes D N

D, supported upon the frame E E, all of which are made of metal—as wire—or of other suitable material, and which are attached to the plate A by hinges *g g*, so that when the frame C C is turned to a certain upright position, as represented in the figure, the indexes D N D being brought into close proximity or contact with the tympan, they will indicate thereon the accurate direction of any line, D N D, to be printed, while the index N locates with nice precision a point which any type—as N on the plate—is to imprint its mark N on the tympan. The frame E E turns upon the hinges *g g*, and lies upon the plate A, as indicated by the dotted line *e e*, while operating the machine for the purpose of type-writing.

It is evident that the frame E E may be detached, and the ends now hinged be inserted into holes at *g g* in Plate A, or at other places, by which the indexes may be adjusted to the tympan in the same place, and serve the identical purpose.

I claim as my invention—

1. The indexes D N D, supported upon the frame E E, in combination, by hinges *g g*, with the plate A, as described.
2. The indexes D N D, hinged to the top-plate of a type-writing machine, and arranged to indicate the printing-point and direction of printed line, in combination with the hinged tympan B, substantially as and for the purpose set forth.

SAMUEL T. RYDER.

Witnesses:

WM. S. DANFORTH,  
A. K. HARMON.