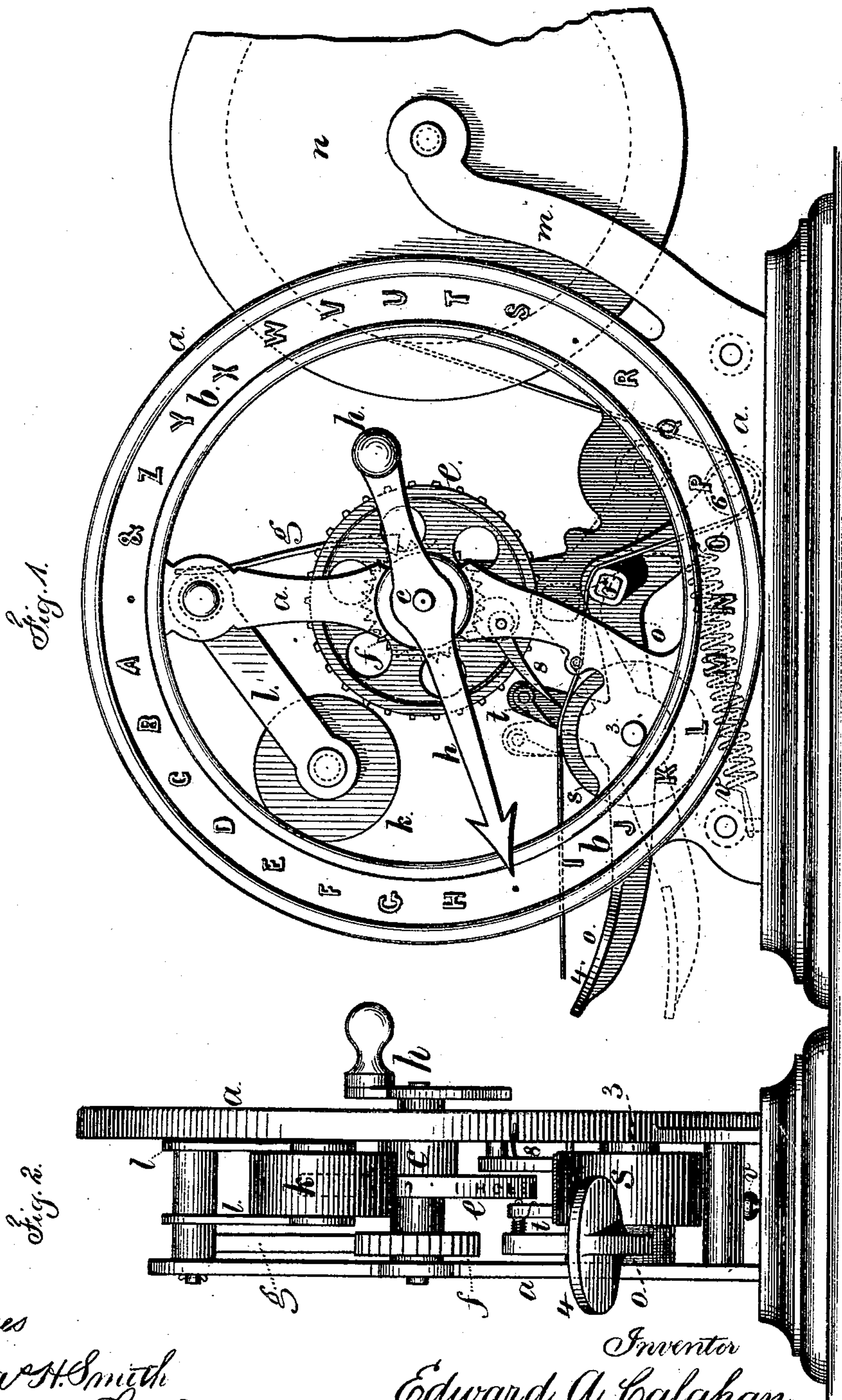


E. A. CALAHAN.

TYPE-WRITER.

No. 175,661.

Patented April 4, 1876.



Witnesses

Chas. H. Smith
Harold Torrell

Inventor

Edward A. Calahan.
per Lemuel W. Torrell

Atty.

UNITED STATES PATENT OFFICE.

EDWARD A. CALAHAN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN TYPE-WRITERS.

Specification forming part of Letters Patent No. **175,661**, dated April 4, 1876; application filed November 29, 1875.

To all whom it may concern :

Be it known that I, EDWARD A. CALAHAN, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Type-Writers, of which the following is a specification:

Toys with which a child can do something are always more acceptable, as well as amusing, than those that are simply played with. The object of this invention is to furnish a toy that resembles a printing-telegraph, but which is cheap and can actually be used in printing. This toy is also available in spelling exercises and accurately records the letters selected, and impresses by the eye, as well as the memory, the peculiar spelling on the mind.

In the drawings, Figure 1 is an elevation of the instrument or toy, showing the dial, type-wheel, and other appliances; and Fig. 2 is an elevation of the toy endwise of the printing-lever.

The frame *a* is adapted to sustain the parts of the apparatus or toy, and also the dial or dial-ring *b*, or to be formed partially by such dial-ring. The shaft *c* for the type-wheel is at the center of the dial or dial-ring, and secured upon this shaft *c* is the type-wheel *e*, and rag-wheel *f*, against which a spring, *g*, presses, having a double inclined end, so that the type-wheel and rag-wheel can be turned either way by the crank or handle *h*, or otherwise.

The rag-wheel and its spring serve to bring the particular letter upon the type-wheel accurately to position, and hold the same while being printed, there being the same number of notches in the rag-wheel that there are divisions in the type-wheel and dial.

The inking-roller *k* is hung by links *l* so that it rests in contact with the type-wheel. The arm *m* carries a reel, *n*, upon which a strip of paper is wound. Upon the pivot 3 the printing-lever *o* swings. It has a finger-rest, 4, at one end, a paper guide or roller, 6, at the other end, and an impression-pad, *r*, in the proper position to press against the type that is in position for printing.

The feed-roller *s* is also upon this shaft 3, and there is a pawl, *t*, upon the printing-lever catching against the paper as it passes over the roller *s*, and serving to move the paper along as the lever is moved to give the impression.

The pawl 8 prevents the paper moving backwardly as the printing-lever is returned to a normal position by the spring *v*. In so doing the roller or guide 6 draws the paper off the reel sufficiently for the next impression, and it will be apparent that the paper is loosened as the printing-lever is moved and the feed operates in consequence of the roller 6 rising. This prevents the paper being unwound too much by a sudden movement of the printing-lever.

It will now be apparent that the toy or instrument aforesaid can be used by a child, the type-wheel being turned around to successive letters denoted by the pointer, and the lever being depressed intermediately to print the letter upon the strip of paper and to cause the paper to move forward. Numbers might be added to the type-wheel, if desired.

I claim as my invention—

1. The printing-lever *o*, finger-rest 4, and impression-pad *r*, in combination with the type-wheel *e*, shaft *c*, crank-handle *h*, rag-wheel *f*, and spring *g*, substantially as set forth.

2. The printing-lever *o*, finger-rest 4, impression-pad *r*, in combination with the feed-roller *s*, pawl *t*, and guide 6, substantially as specified.

3. The combination, in a hand printing-instrument, of a lever, *o*, finger-rest 4, roller *s*, guide 6, type-wheel *e*, handle *h*, dial and pointer, substantially as set forth.

Signed by me this 24th day of November, A. D. 1875.

EDWD. A. CALAHAN.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.