

(No Model.)

I. G. TODD.
TYPE WRITING MACHINE.

No. 466,025.

Patented Dec. 29, 1891.

Fig. 1

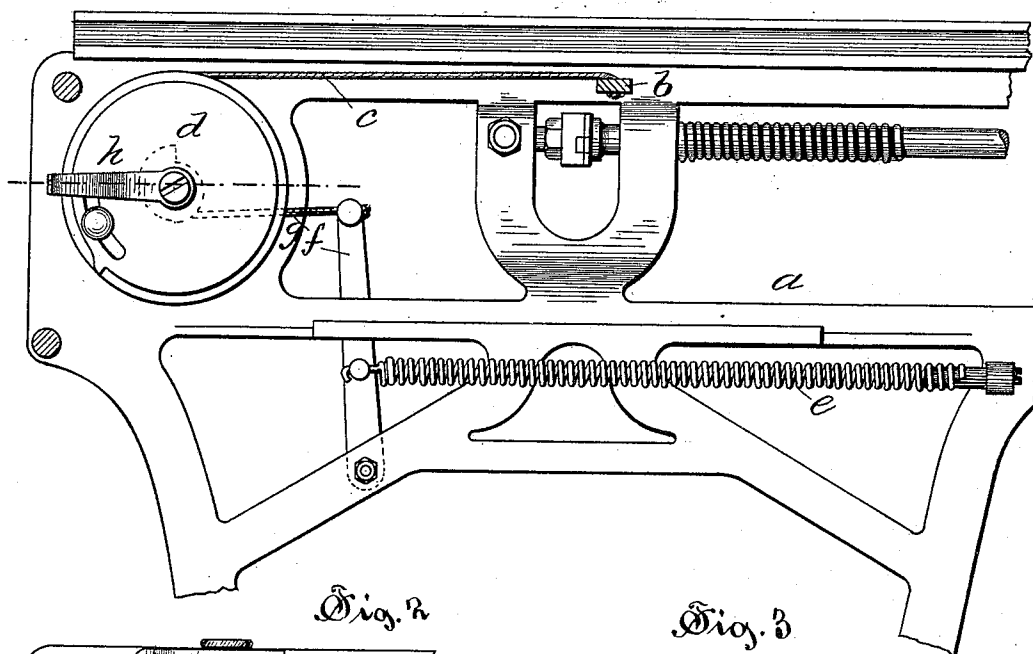


Fig. 2

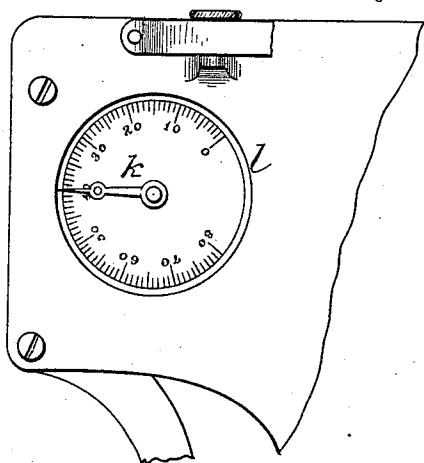
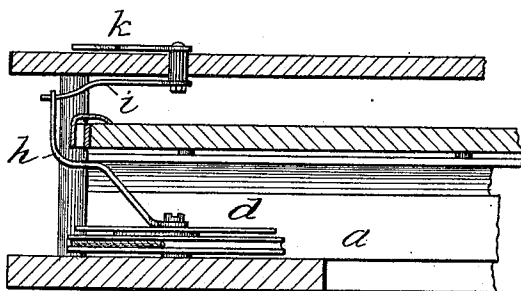


Fig. 3



Witnesses:

A. R. Williams.

C. B. Jenkins.

Inventor,

Ira Gardiner Todd.

By Simonds & Burdett.

Atty.

UNITED STATES PATENT OFFICE.

IRA GARDINER TODD, OF BRIDGEPORT, CONNECTICUT.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 466,025, dated December 29, 1891.

Application filed November 28, 1888. Serial No. 292,154. (No model.)

To all whom it may concern:

Be it known that I, IRA GARDINER TODD, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

The object of my invention is to provide a type-writing machine with an index conveniently placed to indicate at a glance the position of a platen-carriage that moves transversely across the machine; and my invention consists in the details of the several parts making up the device as a whole and in their combination, as more particularly hereinafter described, and pointed out in the claim.

Referring to the drawings, Figure 1 is a plan view of part of the base of the frame of a type-writer embodying my improvement. Fig. 2 is a plan view showing the dial. Fig. 3 is a view in vertical section showing the connection of the rotary wheel and the index-hand.

In the accompanying drawings, the letter *a* denotes the base of the frame of a type-writing machine, the upper parts being removed. The arm *b* of the platen is connected by a cord *c* to the wheel *d*, that is rotated in one direction by means of the spring *e*, connected by lever *f* to a cord *g*, that is wound about a

cam or pulley that is also fast to the shaft of the wheel *d*. Fast to the shaft of this wheel *d* is an arm *h*, that projects upward and engages an arm *i*, that is connected to the shaft on which an index-hand *k* is secured, the latter overlying the dial-plate *l* on the top or face of the machine and pointing with its outer end to one of the numbers that are arranged about the edge of the circular dial-plate. The numbers on this dial-plate are arranged to indicate the position of the platen-carriage, and as the carriage moves back and forth in the ordinary manner in operating the machine the wheel *d* is turned and with it the index-hand.

I claim as my invention—

In combination with the frame of a type-writing machine, the transversely-moving carriage, the wheel *d* of the carriage-moving mechanism, the bent arm *h*, fast to the shaft of the wheel *d* and engaging the arm *i*, fast to the index-hand shaft, the index-hand shaft supported in the upper part of the frame, and the index-hand *k*, overlying a numbered dial-plate on the top of the frame of the machine, all substantially as described.

IRA GARDINER TODD.

Witnesses:

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