

WORD REGISTER FOR TYPE WRITERS.

APPLICATION FILED JULY 31, 1907. RENEWED MAR. 11, 1911.

Patented Apr. 18, 1911.

Fig. 1.

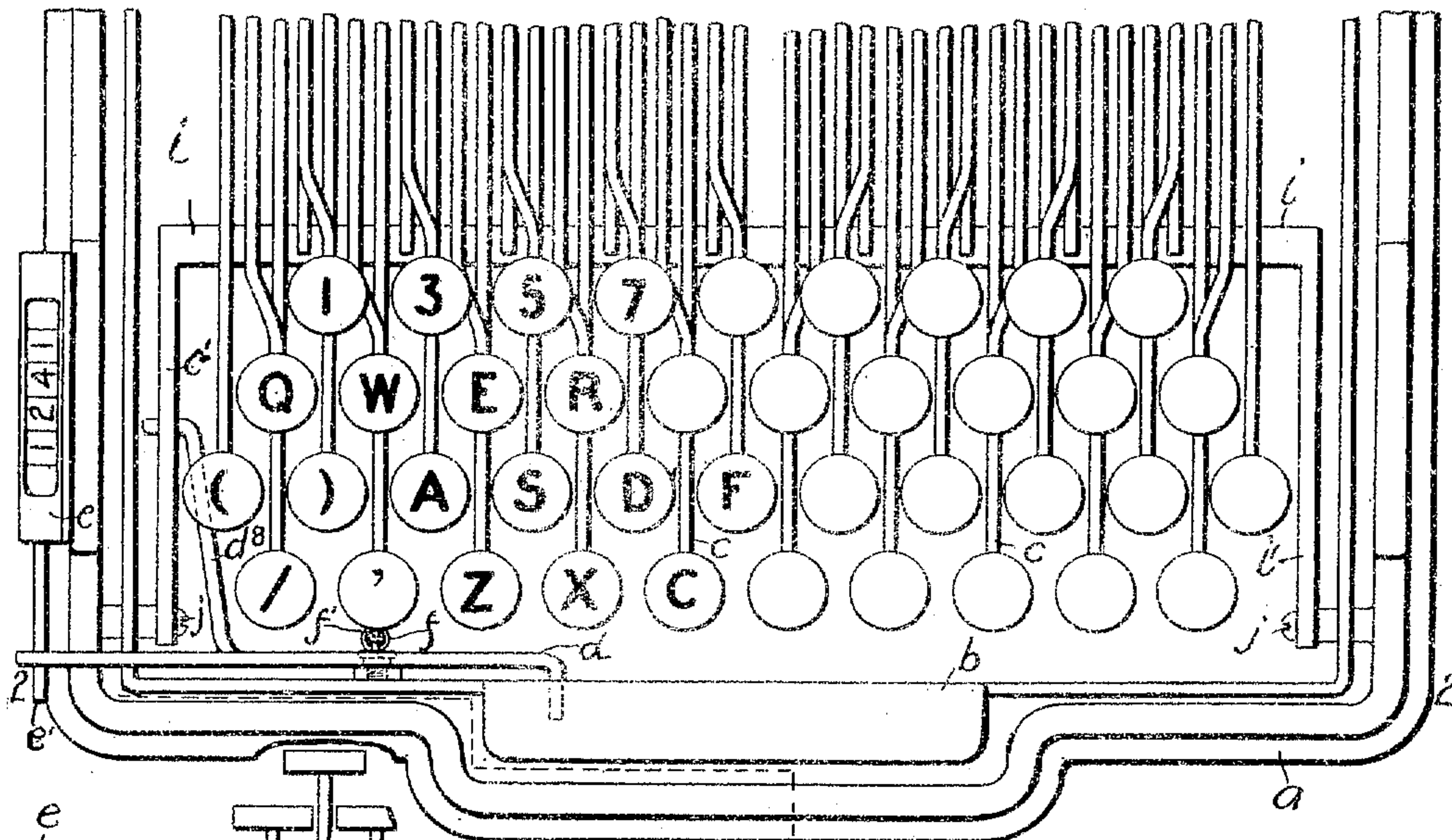


FIG. 2. 2

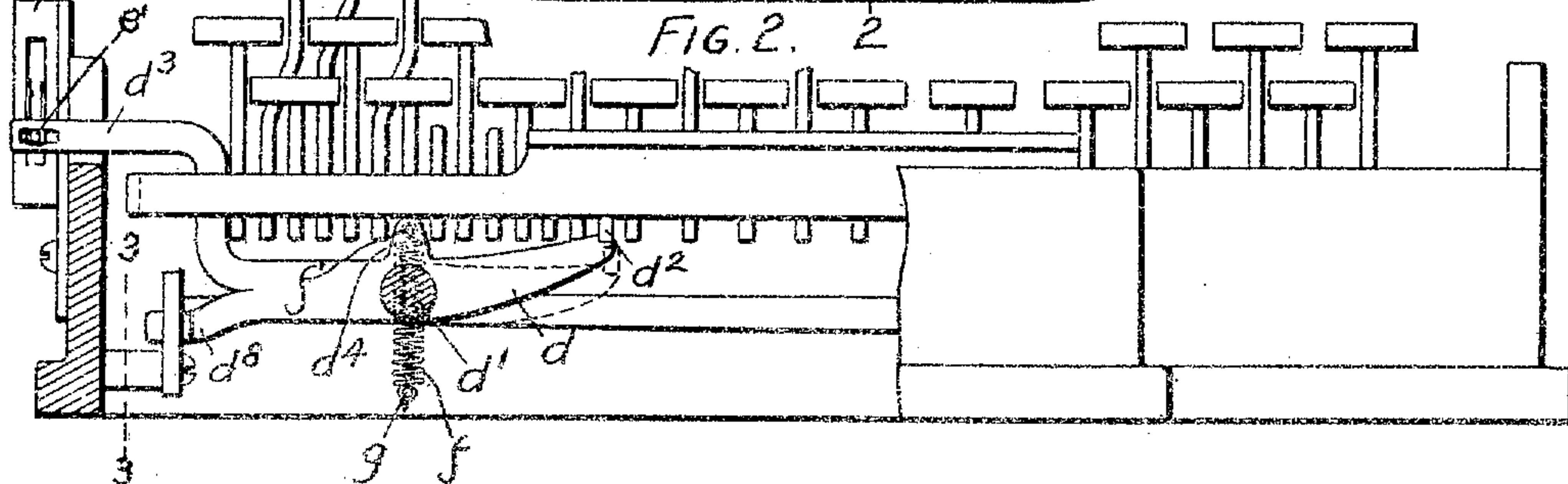
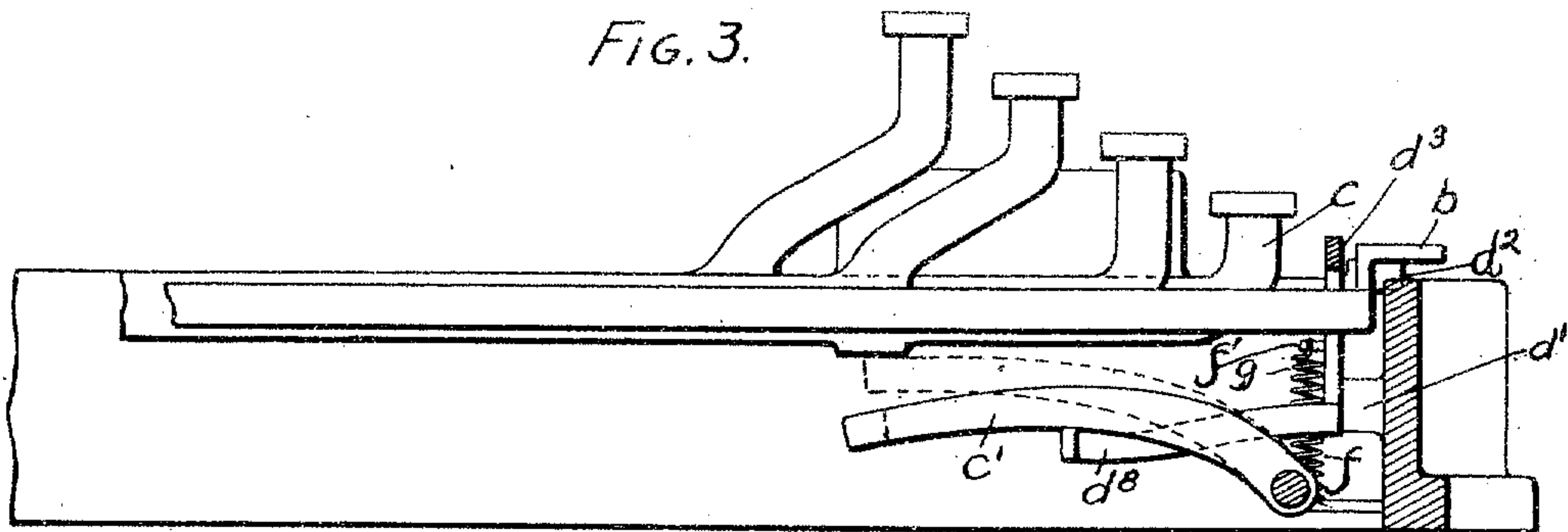


Fig. 3.



David A. Howard  
Cynthia Doyle

Samuel P. Patterson  
Esq. of the Bar  
Attys



# UNITED STATES PATENT OFFICE.

SAMUEL P. PATTERSON, OF BROOKLINE, MASSACHUSETTS, ASSIGNOR OF THREE-FOURTHS TO RAYMOND A. BLAKEMORE, OF BOSTON, MASSACHUSETTS.

## WORD-REGISTER FOR TYPE-WRITERS.

990,162.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed July 31, 1907, Serial No. 386,341. Renewed March 11, 1911. Serial No. 613,912.

*To all whom it may concern:*

Be it known that I, SAMUEL P. PATTERSON, of Brookline, county of Norfolk, State of Massachusetts, have invented an Improvement in Word-Registers for Type-Writers, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to certain improvements in means for automatically recording the number of words written upon a typewriting machine, and has for its object to provide an automatic mechanism which, in the ordinary use of the machine, will only register after a word has been written. I accomplish this object by the means shown in the accompanying drawing, in which,

Figure 1 is a plan view of the typewriting machine provided in my invention. Fig. 2 is a cross section on the line 2—2 of Fig. 1. Fig. 3 is a section on the line 3—3 of Fig. 1.

The typewriting machine in connection with which my invention is employed is similar to the machines in general use, and only such parts of the machine as coöperate with my improvements are shown in the drawing.

In the drawing *a* indicates the frame of the machine, *b* the space-bar, which is adapted to be depressed to move the carriage in the ordinary manner, and *c* the key-levers which are also adapted to be depressed to operate the type-bars in the ordinary manner.

According to my invention I provide a lever *d* which is pivoted at *d'* to the front side of the frame of the machine, said lever having a toe portion *d<sup>2</sup>*, which is adapted to extend beneath the space-bar and engage the under side thereof when the lever is in its normal position. Said lever is also provided with an arm *d<sup>3</sup>* at the opposite end thereof from the toe *d<sup>2</sup>*, which extends upwardly and horizontally over one side of the machine, said arm being adapted to engage the vertically movable operating arm *e'* of a register *e*, of suitable form, which is mounted on the side frame of the machine. An arm *d<sup>4</sup>* is also provided on lever *d* which extends transversely thereof from the point at which its pivot *d'* is located, and a spring *f* is connected at one end to a pin *f'*, located in the upper end of said arm *d<sup>4</sup>*, and at its other end to a pin *g* mounted in the frame

of the machine, said pin *g* being so located that when the lever *d* is in its normal position with the end *d<sup>2</sup>* thereof bearing against the under side of the space-bar, as in the full line position of Fig. 2, the center of the pivot *d'* will be either in, or slightly to the right of the straight line between pins *f'* and *g*, so that said spring *f* will act in a line which either intersects the center of the pivot *d'*, or lies at the opposite side of said center from the toe end *d<sup>2</sup>*. When the space-bar is depressed the pivot *f'* will be swung to one side, so that the spring will act in a line which is at the side of the center of the pivot *d'*, next the end *d<sup>2</sup>* of the lever *d*, thus acting to hold the lever in the depressed position indicated in dotted lines in Fig. 2. It follows, therefore, that when the lever is depressed by the space-bar, it will not automatically return with the latter, but will be held in said depressed position until moved therefrom.

A bar *i* is provided which extends beneath all of the key-bars *c*, said bar *i* being provided with arms *i'* which are pivoted at *j* at opposite sides of the machine. The lever *d* is provided with an arm *d<sup>8</sup>* which extends beneath one of the arms *i'*, so that the latter always rests on said arm *d<sup>8</sup>*, as shown in full lines in Fig. 3.

The operation is as follows: When the space-bar *b* is depressed to move the carriage a space, the lever will be moved down to the dotted position of Fig. 2, causing its arm *d<sup>3</sup>* to lift the register arm *e'* to operate the register. The arm *d<sup>8</sup>* of said lever will also be lifted, causing it to swing up arms *i'* and lift the bar *i* into engagement with the under edges of the key-bars *c*. As before stated, the lever *d* will remain in the depressed position when the space-bar is again lifted, so that the space-bar may then be operated indefinitely without further operating the register. However, when any one of the key-bars are depressed to operate a type-arm, said cross-bar *i* will be depressed, swinging the arm *i'* thereof downwardly, thus causing the arm *d<sup>8</sup>* to be depressed and causing the opposite end of lever *d* to be swung upwardly, so that the toe *d<sup>2</sup>* thereof again engages the under side of the space-bar. The parts are thus returned to the full line position of Fig. 2, so that the next time the space-bar is depressed the register will



again be operated. It will, therefore, be apparent that, with the above described device, a word or character will not be registered until it has been written and the carriage  
5 has been moved a space, and that nothing will be registered if the carriage is moved more than one space without again striking a key to write another word or character.

10 Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a typewriting machine, the combination with the space-bar thereof, of a register,  
15 a fulcrumed lever having one arm in normal engagement with said space-bar and an opposite arm in engagement with the operating-arm of the register, means for normally holding the arm engaging the space-bar in depressed position, a pivoted cross-bar situated  
20 beneath the key-levers and means carried by the fulcrumed lever, whereby said

lever may be returned to normal position when the cross-bar is depressed.

2. In a typewriting machine, the combination with the space-bar thereof, of a register, 25 a fulcrumed lever having an arm engaging the space-bar and an opposite arm engaging the operating-arm of the register, a spring arranged to temporarily hold the first mentioned arm in depressed position, a pivoted 30 cross-bar situated below the key-levers, and an arm carried by the fulcrumed lever, adapted to be operated upon by the cross-bar to return the said lever to normal position. 35

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

SAMUEL P. PATTERSON.

Witnesses:

L. H. HARRIMAN,  
CYNTHIA DOYLE.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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