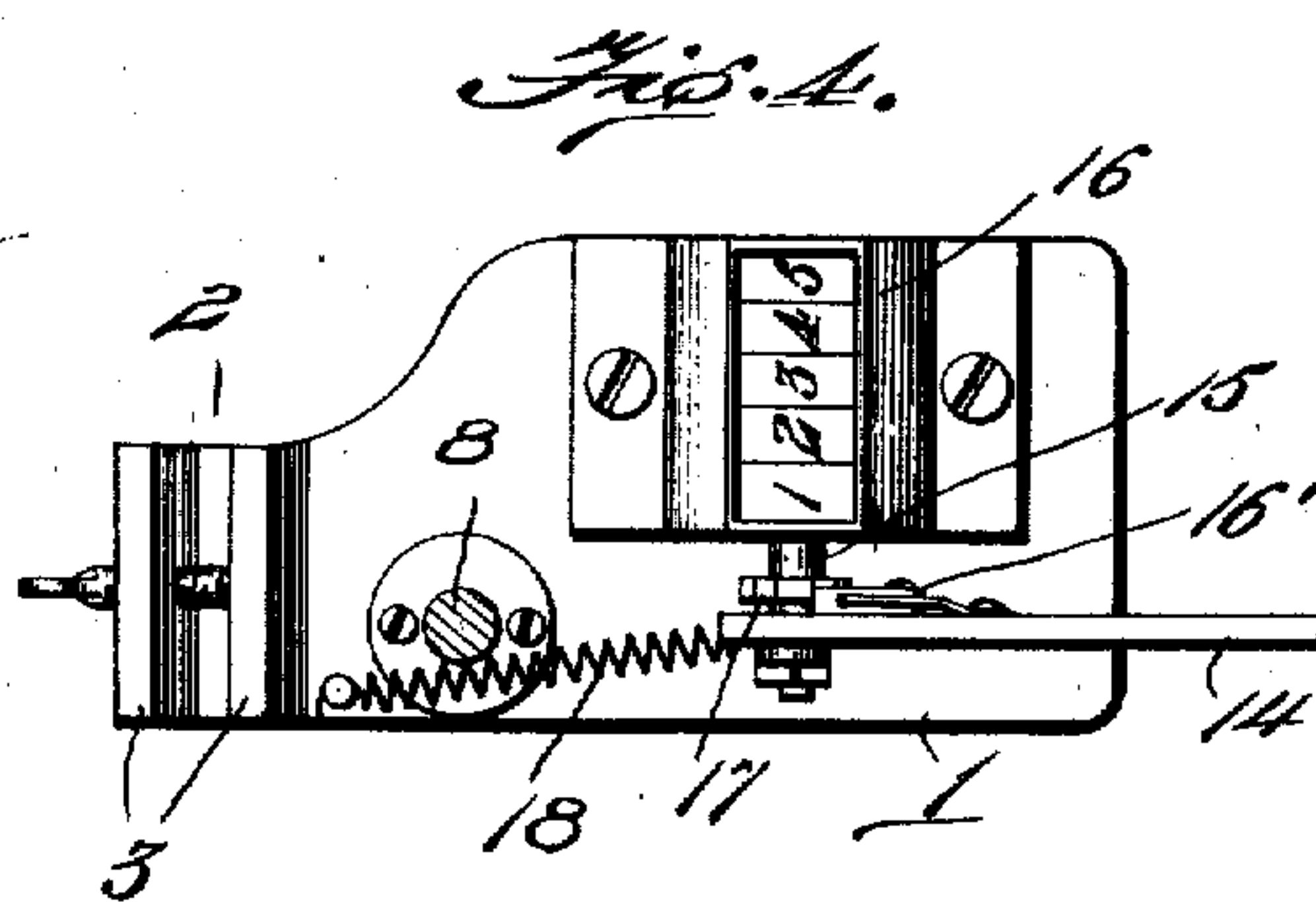
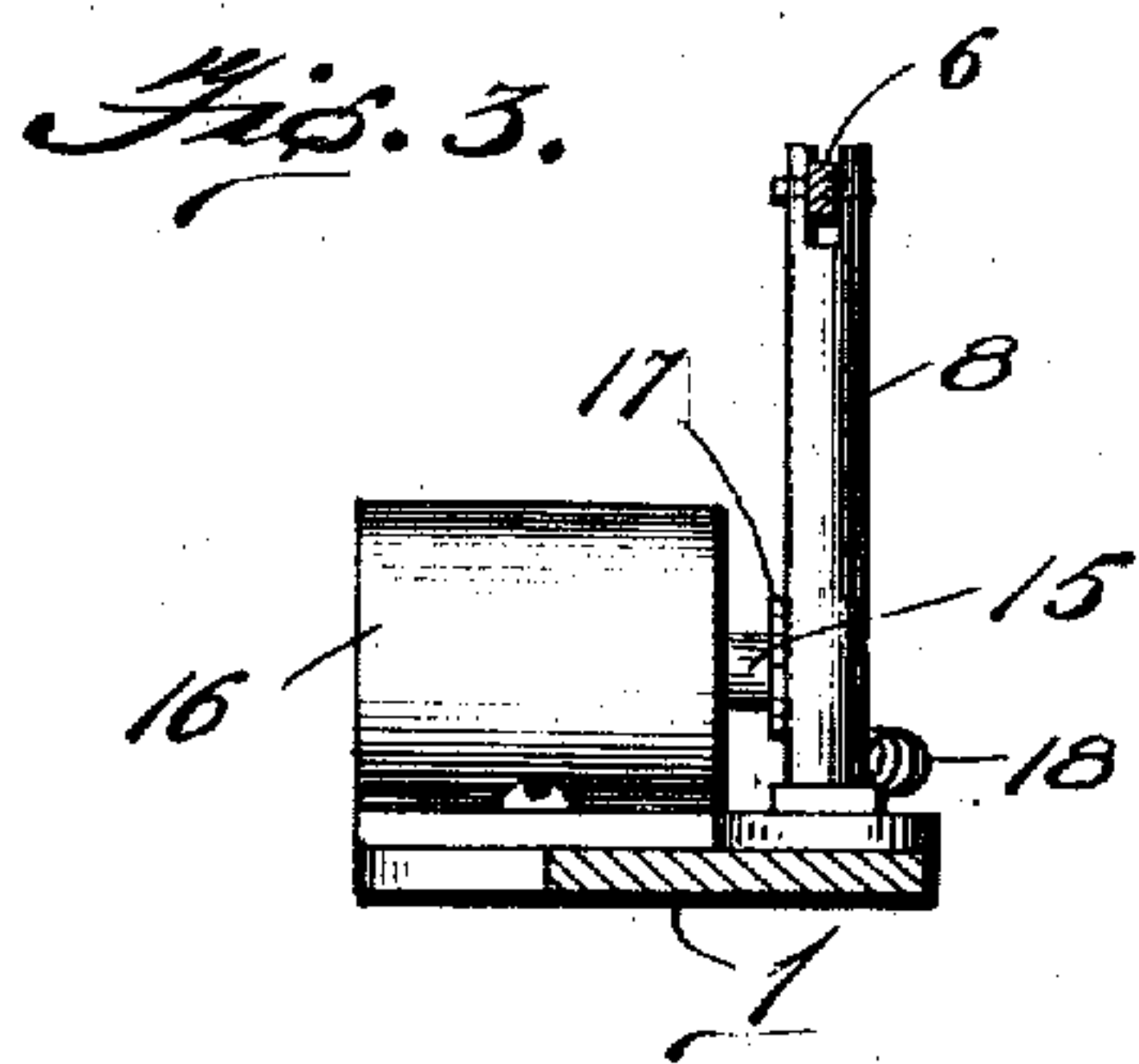
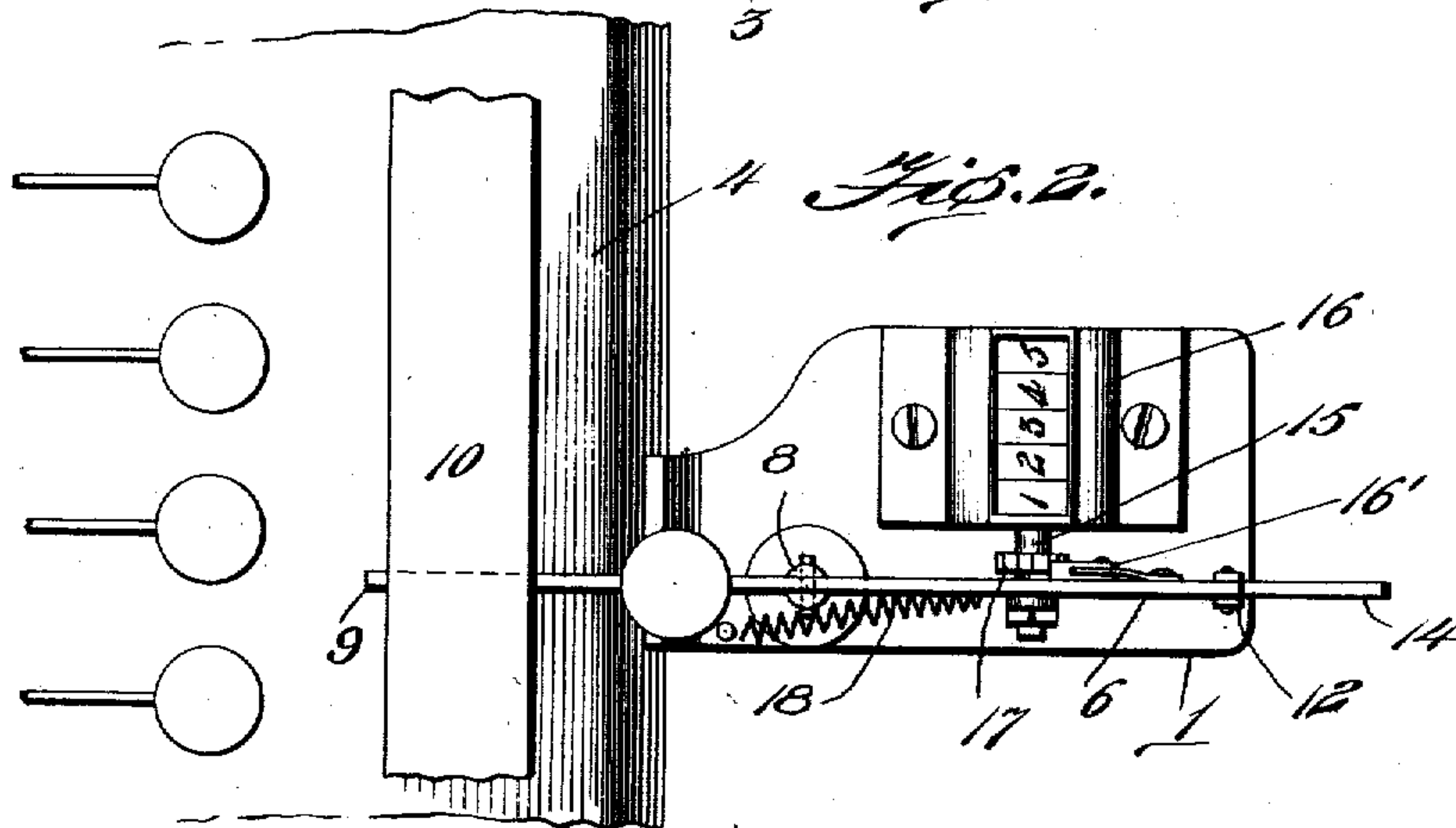
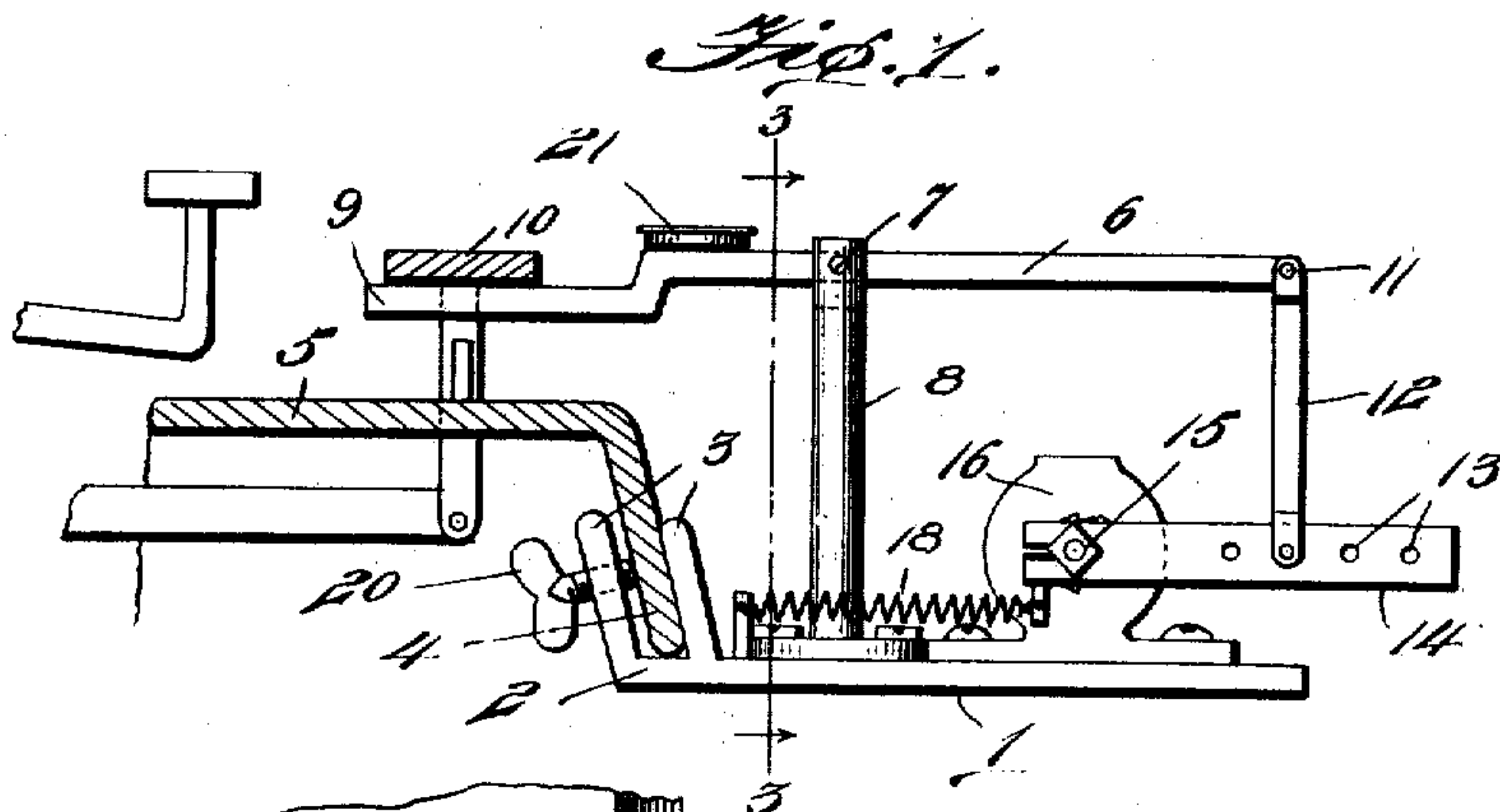


W. D. GIRAND.
WORD COUNTING DEVICE FOR TYPE WRITERS.
APPLICATION FILED SEPT. 2, 1909.

954,277.

Patented Apr. 5, 1910.



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UNITED STATES PATENT OFFICE.

WILBERFORCE D. GIRAND, OF ABILENE, TEXAS.

WORD-COUNTING DEVICE FOR TYPE-WRITERS.

954,277.

Specification of Letters Patent.

Patented Apr. 5, 1910.

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To all whom it may concern:

Be it known that I, WILBERFORCE D. GIRAND, a citizen of the United States, residing at Abilene, in the county of Taylor and State of Texas, have invented certain new and useful Improvements in Word-Counting Devices for Type-Writers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a word counting device for typewriters and has for its object to provide a simple and economical attachment which may be applied to a typewriter of any style or make and which will record the number of words written during a specified time. By this means, the number of words in a typewritten letter or other document may be ascertained at a moment's notice and without the necessity of counting the words.

This attachment would be a very valuable asset for persons who make a specialty of typewriting and charge according to the number of words.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a side elevation illustrating the application of the device to a typewriter which is only partly shown; Fig. 2 is a plan view of Fig. 1; Fig. 3 is a transverse section taken on line 3—3 of Fig. 1; and Fig. 4 is a plan view of the counting device detached.

Referring to the drawings for a more particular description of the invention, the attachment comprises a base 1 provided with the forked inner end 2, the arms 3 of said fork being adapted to receive the depending flange 4, of the base bar 5 of the typewriter.

The attachment further comprises a longitudinal actuating bar 6, which is pivoted intermediate its ends as at 7, to the upper end of the vertical support 8, the lower end of which is screwed or otherwise attached to the base 1. The inner end 9 of the actuating bar 6, is bent to extend under the spacing bar 10 of the machine, while its outer or free end as 11, is connected by the vertical link 12, with any one of a series of apertures 13, in the outer end of the ratchet bar 14.

The inner end of the bar 14, is loosely mounted upon the shaft 15, of the counting device 16, the base of which is secured or otherwise securely mounted upon the base 1 and is provided with the pawl 16', which engages a ratchet 17, arranged on the projecting end of the shaft 15. A coil spring 18, has one end attached to a projection 19, arising from the base 1 and its opposite end connected with the inner end of the ratchet bar 14, the tendency of the spring being to return the ratchet bar into normal or initial position.

A clamping screw 20 screws through the outer arm of the fork 2 of the base against the flange 4 of the base of the typewriter and thereby holds the attachment in position.

The attachment is shown in connection with an Oliver typewriter but may be used in connection with any make of machine by suitably bending the inner end of the actuating bar 6, so as to extend under the spacing bar. The inner end of the bar 6 is provided with a finger piece 21, so that should the operator desire to count each figure as a word he can do so by simply depressing the inner end of the actuating bar 6 as many times as he has figures to write.

In practice, when the spacing bar 10 is depressed, the outer or free end of the actuating bar 6 is raised and through the medium of the link, ratchet bar and pawl, 12, 14 and 16, respectively, turns the shaft 15 of the counting device and records the word. When the spacing bar is released, the coil spring 18, returns the ratchet bar 14, into initial position.

From the foregoing description, taken in connection with the accompanying drawing, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined in the appended claims.

Having thus described my invention, what I claim is:

1. A word counting attachment for typewriters comprising a base, means for attaching the base to the base bar of the typewriter, a word counting device mounted upon the base of the attachment, means for actuating the counting device each time the

spacing bar of the machine is depressed, said means comprising a longitudinal pivoted actuating bar having one end arranged to extend beneath the spacing bar of the machine, a ratchet bar having a pawl and ratchet connection with the shaft of the counting device, an adjustable connection between the free end of the actuating bar and the ratchet bar, and a coil spring to return the ratchet bar into normal position after the spacing bar is released.

2. A word counting attachment for typewriters comprising a base, means for attaching the base bar of the typewriter, a word counting device mounted upon the base of the attachment, means for actuating the counting device each time the spacing bar of the machine is depressed, said means comprising a longitudinal pivoted actuating bar having one end arranged to extend beneath the spacing bar of the machine, a ratchet bar having a pawl and ratchet connection with the shaft of the counting device, an adjustable connection between the free end of the actuating bar and the ratchet bar, a coil spring to return the ratchet bar into normal position after the spacing bar is released, and a finger piece on the actuating bar.

3. A word counting attachment for typewriters, comprising a base provided at one end with a pair of upstanding longitudinally-spaced ears adapted to receive the depending flange of the base bar of the ma-

chine, a retention screw screwing through the outer ear against the base bar, a word counting device operatively mounted upon the base and suitable connections for actuating the counting device one unit at a time each time the spacing bar of the typewriter is depressed.

4. A word counting attachment for typewriters, comprising a base, means for attaching the base to the typewriter, a word counting device mounted upon the base of the attachment, means for actuating the counting device each time the spacing bar of the machine is depressed, said means comprising an upright support on the base, a longitudinally-disposed actuating bar pivoted upon said support and having one end extending under the spacing bar of the machine, a ratchet bar having a pawl and ratchet connection with the shaft of the counting device, an adjustable connection between the free end of the actuating bar and the ratchet bar, a coil spring to return the ratchet bar into normal position after the spacing bar is released and a finger piece on the actuating bar.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILBERFORCE D. GIRAND.

Witnesses:

W. L. GROGAN,
E. A. HILGER.