

No. 685,199.

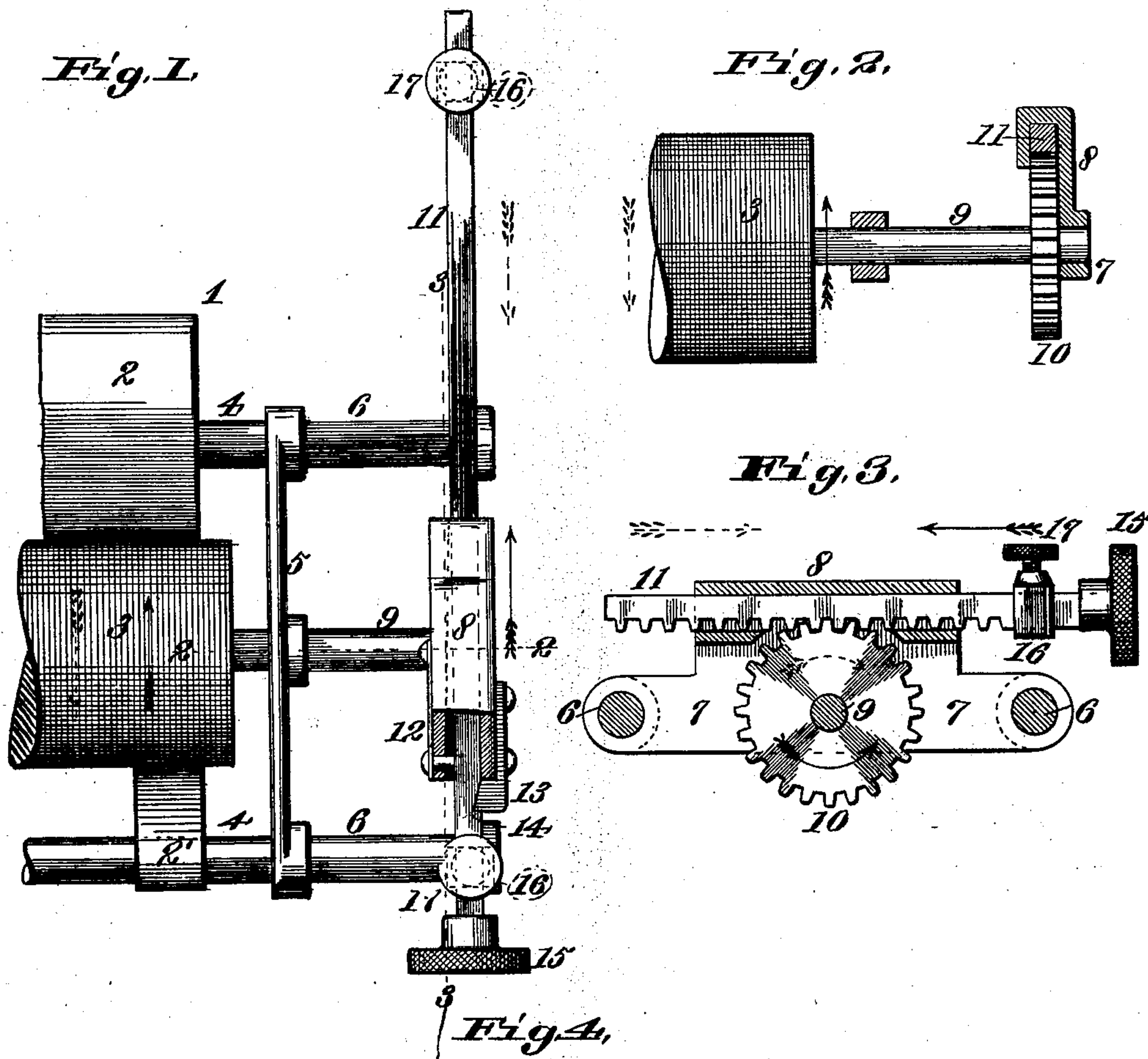
Patented Oct. 22, 1901.

F. P. BOWLSBY.

PAPER ADJUSTER FOR TYPE WRITERS.

(Application filed May 29, 1901.)

(No Model.)



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St Louis. .... 1901

John Smith Esq 19  
Chicago. 20

Dear Sir" In reply to \_\_\_\_\_

Attest:  
Ethel Osmer  
J. N. Grier

Inventor:  
Frank P. Bowlsby.  
By *Wm. H. Grier* his attorney.



# UNITED STATES PATENT OFFICE.

FRANK P. BOWLSBY, OF ST. LOUIS, MISSOURI.

## PAPER-ADJUSTER FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 685,199, dated October 22, 1901.

Application filed May 29, 1901. Serial No. 62,450. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK P. BOWLSBY, a citizen of the United States of America, and a resident of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Paper-Adjusters for Type-Writers, of which the following is a specification.

My invention relates to improvements in type-writing machines; and its object is to provide a device for rapidly feeding, discharging, and accurately adjusting the paper and spacing the lines to be written.

My improved paper-adjuster may be constructed as an integral part of the type-writer, but is preferably designed as an attachment to be applied to type-writers of the various styles now in use.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view showing my improved paper-adjuster applied to the end of a type-writer carriage. Fig. 2 is a vertical longitudinal section of the same on line 2 2 of Fig. 1. Fig. 3 is a detail transverse vertical section on line 3 3 of Fig. 1. Fig. 4 is a detail view of an ordinary printed letter-head, showing the address-lines as spaced by my improved paper-adjuster.

Similar characters of reference indicate similar parts throughout the several views.

1 represents the end of a type-writer carriage with my improved paper-adjuster applied thereto.

2 is the paper-table, and 2' the paper-guide upon which the paper is carried under the platen or roller 3.

4 represents the longitudinal carriage-bars passing into or through the cross-bar 5 and having the extension-bars 6, terminating in the cross-head 7. The extension-bars 6 may be continuations of the bars 4, or their inner ends may meet the ends of the bars 4 midway of the bearings in the cross-bar, and in this manner my improved paper-adjuster may be applied as an attachment to the various styles of type-writers.

8 is the guideway in which the rack 11 is

held and through which it operates the pinion 10, mounted upon the platen-shaft 9 or an extension thereof, which rotates and controls the platen 3.

12 is the pressure-spring, which by the aid of the stud passing through it at right angles presses and holds the rack 11 firmly against the opposite side of the guideway 8, causing the fixed stop 13 to engage with the notch 14. If desired, the spring-plate 12 may be secured upon the inside of the guideway 8, thus performing its required function and doing away with the stud.

15 is the thumb-button at the inner end of the rack 11, which is provided near each end with a stop-collar 16, operated by a thumb-screw 17.

18 represents a letter-head, bearing the two address-lines 19 and 20 in the position they are designed to occupy thereon, illustrating the use of my improved paper-adjuster.

The principal object of my present invention, it will be observed, is to print with a type-writer at the head of a letter-form the personal address of the firm or party for whom the letter is intended, and also to address envelopes, mailing-wrappers, &c., and its novelty and merit consist in the speed, accuracy, and precision that is attained in properly feeding the paper, spacing the lines, and discharging the paper.

To use my improved paper-adjuster, the stop-collars 16 are fastened in the required position on the rack 11. The rack 11 is then drawn toward the operator until the outer stop 16 touches the outer end of the guideway 8. The upper edge of the letter-head 18 is then inserted face downward between the paper-table 2 and the platen 3. The rack 11 is then pushed forward until the fixed stop 13 engages the notch 14 on the rack 11. This motion rotates the pinion 10, controlling the platen 3, sufficiently to bring the space 19 directly opposite the type-line under the platen. The first line is then written. The thumb-button 15 is then drawn slightly inward, disengaging the notch 14 from the stop 13, and the rack 11 pushed forward until the inner stop-collar 16 touches the guide 8, when the space 20 for the second line will be opposite the type-line under the platen. By drawing the rack 11 inward to the outer stop-collar 16 the



platen rotates in the opposite direction and instantly discharges the paper. Thus a single motion of the rack 11 in either direction affords a continuous rotation, or, if desired, a complete revolution, of the platen and obviates the tedious turning of the platen direct or by the ordinary pawl-and-ratchet motion now in common use.

It will be noticed that with the exception of the final stop 16 the number of adjusting-spaces utilized will be governed by a like number of notches 14 on rack 11.

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

1. A paper-adjuster for type-writers comprising a pinion fast on the platen-shaft, a rack engaging therewith operated through a stationary guideway and controlling and rotating the platen either backward or forward substantially as shown and described.

2. A paper-adjuster for type-writers comprising a pinion fast upon the platen-shaft and a rack engaging therewith passing through a guideway having a stop upon one side and pressure-spring upon the opposite side the stop being adapted to engage a notch

arranged upon the side of the rack all substantially as shown.

3. In a paper-adjuster for type-writers comprising a pinion mounted upon the platen-shaft, a rack engaging therewith passing through a fixed guideway, said rack having an adjustable stop-collar near each end, and a thumb-button at its inner end, substantially as and for the purposes set forth.

4. A paper-adjuster for type-writers, comprising a pinion mounted on the platen-shaft, a rack engaging therewith passing through a guideway mounted on the end of the platen-shaft, and secured on the end of the carriage-bars, substantially as shown and set forth.

5. In combination with a type-writing machine, the paper-adjuster secured to the end of the carriage-frame, comprising a pinion mounted on the platen-shaft and a rack engaging therewith having suitable adjustable stops, and operated through a stationary guideway, all substantially as shown and for the purpose described.

FRANK P. BOWLSBY.

Witnesses:

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WM. H. OSMER.