

C. RODERICK.  
TYPE WRITING MACHINE.  
APPLICATION FILED DEC. 13, 1907.

932,176.

Patented Aug. 24, 1909.  
2 SHEETS—SHEET 1.

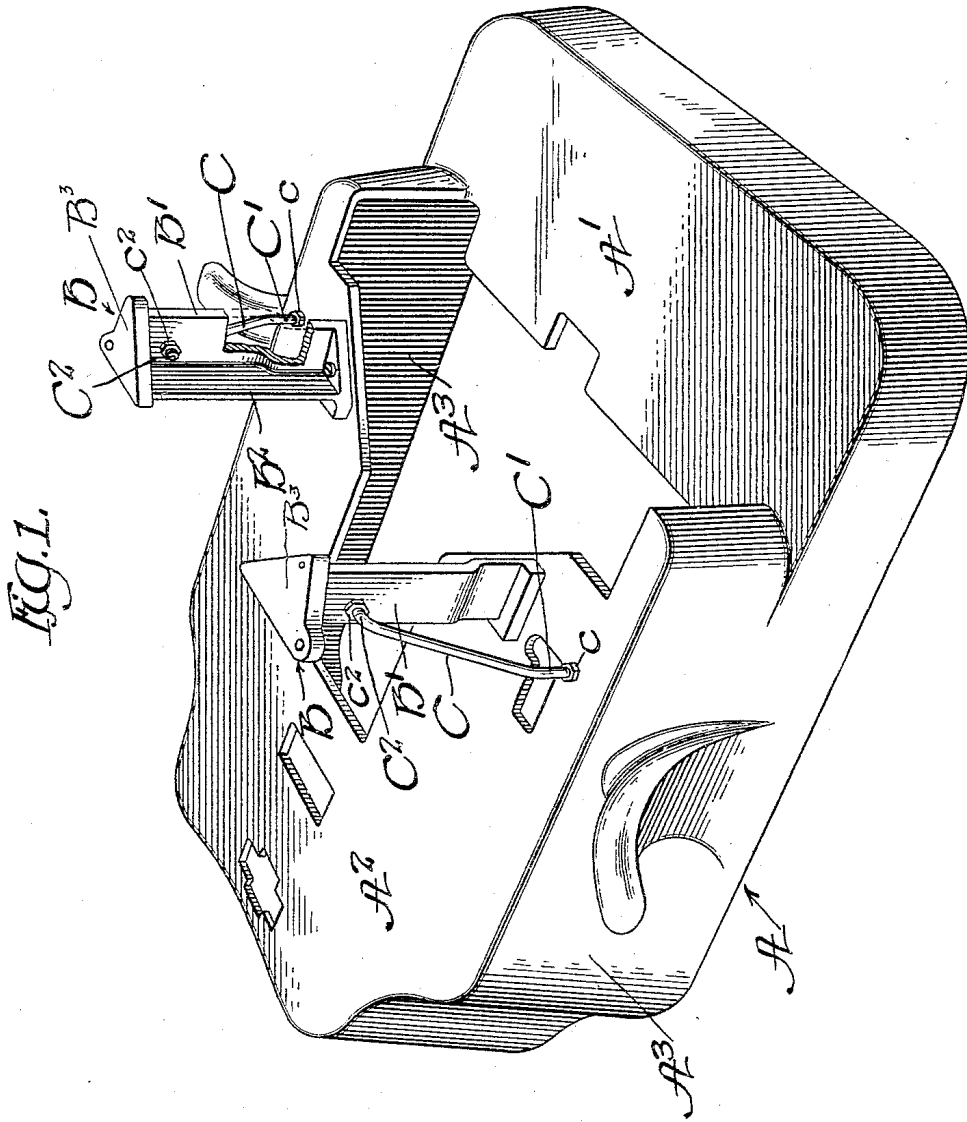


FIG. 1.

Witnesses:  
J. H. Alfred  
L. R. Wilkins

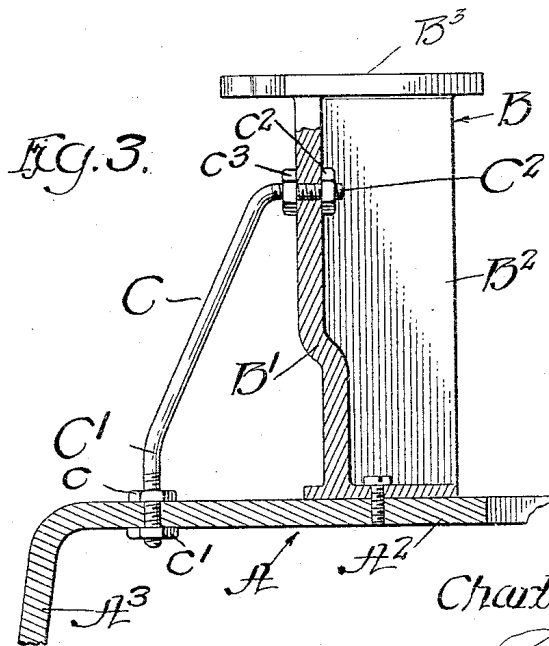
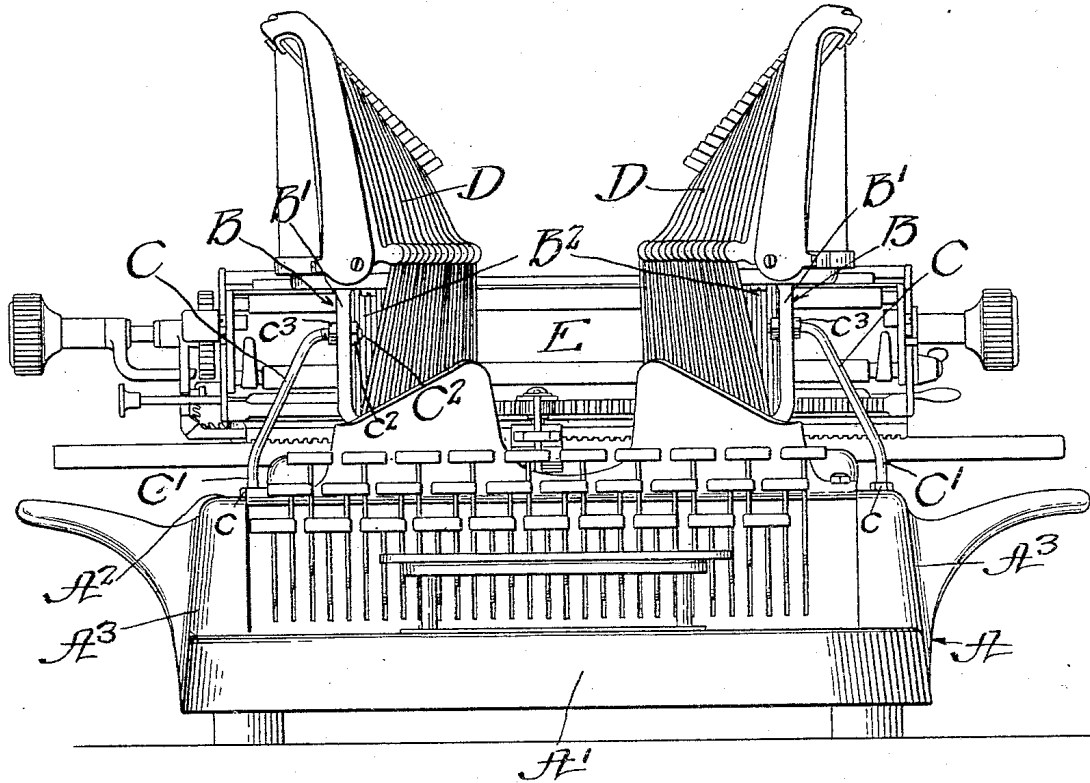
Inventor:  
Charles Roderick  
by Poole & Brown Attys

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 2 SHEETS—SHEET 2.

Fig. 2.



Witnesses:  
 J. H. Alfede  
 D. R. McKinnis

Inventor:  
 Charles Roderick  
 by Poole & Brown  
 Atty

# UNITED STATES PATENT OFFICE.

CHARLES RODERICK, OF WOODSTOCK, ILLINOIS, ASSIGNOR TO THE OLIVER TYPEWRITER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## TYPE-WRITING MACHINE.

932,176.

Specification of Letters Patent.

Patented Aug. 24, 1909.

Application filed December 13, 1907. Serial No. 406,268.

*To all whom it may concern:*

Be it known that I, CHARLES RODERICK, a citizen of the United States, and a resident of Woodstock, in the county of McHenry and State of Illinois, have invented certain new and useful Improvements in Type-Writing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in typewriting machines of the kind known as the "Oliver" machine, such as is shown in the prior patent granted to Thomas Oliver No. 599,863, dated March 1st, 1898, and to Cross and Griffiths, No. 834,565, dated October 30th, 1906, and it has reference, more especially, to the construction of the base-plate of the machine and means for attaching thereto the supporting standards for the type-bars. The improvements herein described are, however, applicable to machines which differ in details of construction from the said "Oliver" machine.

The invention consists in the matters hereinafter more particularly set forth and pointed out in the appended claims.

In the accompanying drawings illustrating my invention: Figure 1 is a view in perspective showing parts of an "Oliver" typewriting machine embodying the features of the present invention. Fig. 2 is a view of the machine in front elevation. Fig. 3 is a transverse, vertical section taken through the base-plate of said machine and through one of the type-bar supporting standards mounted thereupon.

First referring to the general features of construction shown in the machine illustrated, A indicates the base-plate, said base-plate being provided with a lower, horizontal, forward portion A<sup>1</sup> and with a rear, elevated horizontal portion A<sup>2</sup>. Said forward lower part and rear elevated parts are made integral with a depending marginal base-flange A<sup>3</sup> which extends entirely around the base-plate.

B, B indicate the two upright type-bar supporting standards which are mounted upon the elevated rear part A<sup>1</sup> of the base-plate near the forward edge thereof.

D, D indicate two sets of type-bars which are pivotally mounted on the upper ends of

said standards; the type-bars of both sets being adapted to act at a common impression or printing point on the platen E of the machine.

The standards B, B, as illustrated, have the form of angle-bars having each a flat part B<sup>1</sup> which extends in a direction from front to rear of the machine, and a transverse stiffening flange B<sup>2</sup> arranged at right angles thereto, and extending inwardly or toward the center of the machine. Each supporting standard is also provided with an integral, horizontal plate B<sup>3</sup> at its upper end, on which plate the bearing member for the type-bars is attached. Each supporting standard is also provided with an integral, horizontal flange at its lower end, which flange rests on the horizontal part A<sup>2</sup> of the base-plate and is secured thereto by means of screws extending through said flange into the base-plate.

So far as described, the parts illustrated are like those shown in said prior patent No. 834,565.

Referring now to the features more directly connected with the present invention, C indicates a diagonally arranged brace-rod which is secured at its lower end to the part A<sup>2</sup> of said base-plate, at a point outside of and laterally distant from the lower end of the standard B, and at its upper end to said standard near the upper end thereof. As shown, said rod is of cylindrical section and is bent at points near its ends to form a vertically extending portion C<sup>1</sup> at the lower end thereof and a horizontally extending portion C<sup>2</sup> at the upper end thereof. The said vertically and horizontally extending portions at the ends of said brace-rod are screw-threaded and extend through openings in the base-plate A<sup>2</sup> and in the type-bar supporting standard, respectively. Upon the lower, vertical portion of said brace-rod are placed two nuts c c<sup>1</sup>, one located above and the other below the said base-plate. The lower nut c<sup>1</sup> is tightened against the base-plate so as to firmly clamp the lower end of the brace-rod to said plate. Similarly, the horizontal portion C<sup>2</sup> at the upper end of said brace-rod has applied to it two nuts c<sup>2</sup> c<sup>3</sup>, the nut c<sup>2</sup> being in contact with the inner, vertical face of the part B<sup>1</sup> of the standard and the nut c<sup>3</sup> bearing against the outer vertical face of said part B<sup>1</sup>. These nuts are tightened against the standard so as to clamp the up-

per end of the brace-rod firmly to the said standard.

The vertically adjustable connection between the lower end of each brace-rod and the base-plate of the machine enables the horizontal upper end of the brace-rod to be brought accurately into position for engagement with the hole in the standard and the horizontal adjustment of the upper end of the brace-rod relatively to the standard enables the standard to be adjusted in a horizontal direction to bring the type-bars carried by the standard accurately in position with respect to the striking point of the type. Manifestly, by horizontal adjustment of the upper end of both standards toward or from each other the type-bars of both groups may be brought into position to strike the same point on the platen. In the Oliver typewriting machine as heretofore constructed a horizontal brace-rod extended between the upper ends of the standards and was adjustably connected at its ends with the upper ends of said standards, for the purpose of effecting a like adjustment of the two sets of type-bars with respect to each other. The employment of two separate oblique brace-rods, one for each of the standards, arranged as described, has the advantage over the prior construction referred to of avoiding the presence of the transversely extending brace-rod which is, to some extent, in the way of the operator, and of affording positive independent adjustment of the upper end of each standard relatively to the base-plate of the machine and relatively to the striking point of the type, while at the same time holding the upper ends of both standards rigidly from lateral movement.

I claim as my invention:—

1. In a typewriting machine, the combination with a horizontal base-plate and two type-bar supporting standards attached at

their lower ends to said base-plate, of two obliquely arranged brace-rods extending from the upper ends of the standards to the base-plate at points outside of and laterally distant from the lower ends of said standards, and means connecting said brace-rods with said parts affording horizontal adjustment of the upper ends of said standards toward and from each other.

2. In a typewriting machine, the combination with a horizontal base-plate and an upright type-bar supporting standard attached at its lower end to said base-plate, of an obliquely arranged brace-rod, the lower end of which is vertical and the upper end of which is horizontal, and means for adjustably securing the ends of said rod to said base-plate and standard adapted to afford endwise adjustment of the vertical lower, and horizontal upper, ends of said rod relatively to said base-plate and standard.

3. In a typewriting machine, the combination with a horizontal base-plate, and an upright type-bar supporting standard attached at its lower end to said base-plate, of an obliquely arranged brace-rod having vertical and horizontal screw-threaded lower and upper end portions which extend through holes in the said base-plate and standard respectively, and nuts applied to said screw-threaded end portions of the brace-rod and bearing against opposite faces of said base-plate and standard to afford endwise adjustment of the lower and upper ends of said brace-rod relatively to said base-plate and standard.

In testimony, that I claim the foregoing as my invention I affix my signature in the presence of two witnesses, this 10th day of December A. D. 1907.

CHARLES RODERICK.

Witnesses:

L. L. SCHROEDER,  
E. R. HAY.