

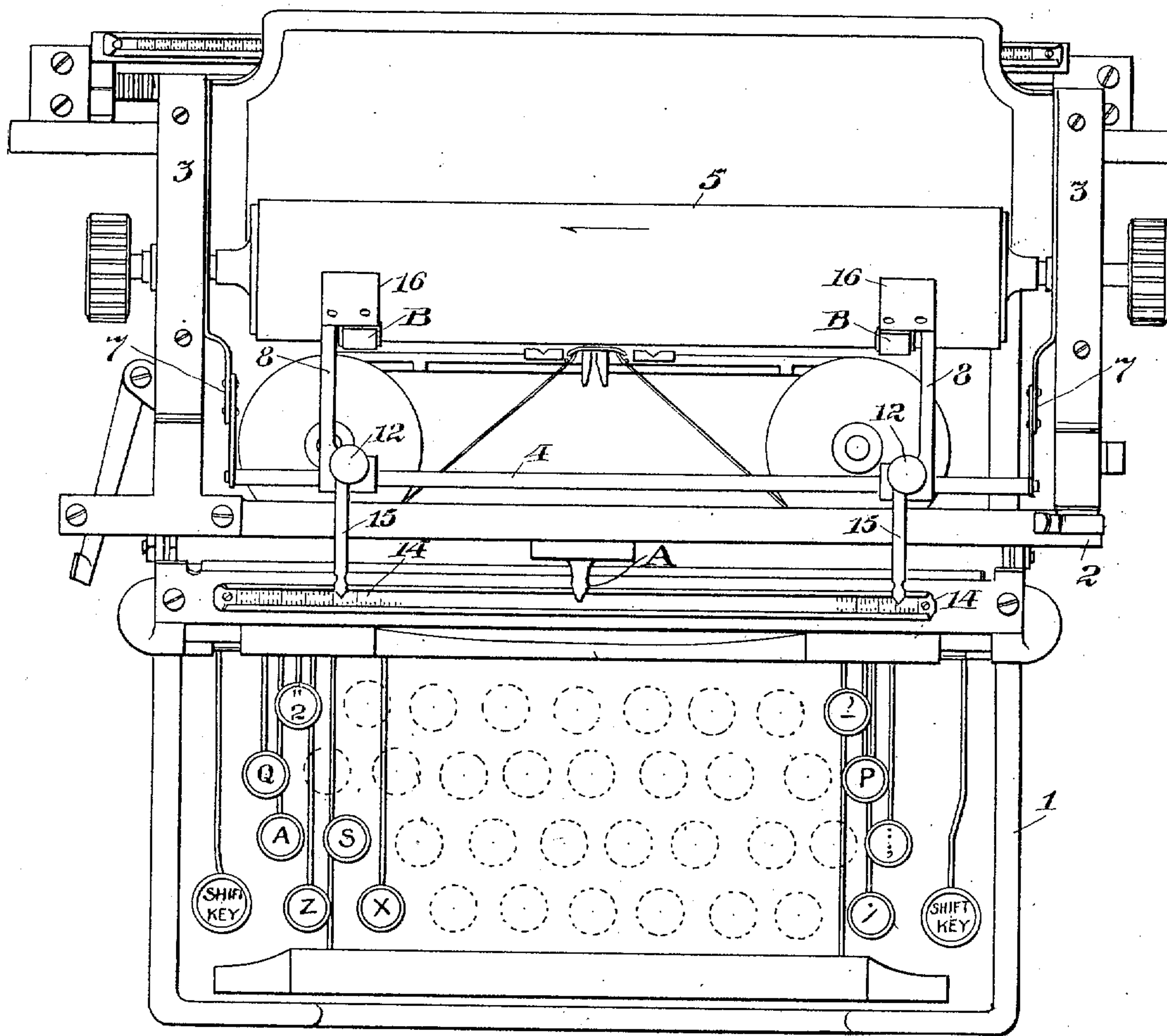
No. 850,110.

PATENTED APR. 9, 1907.

J. D. DAUGHERTY,
TYPE WRITING MACHINE.
APPLICATION FILED AUG. 26, 1904.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

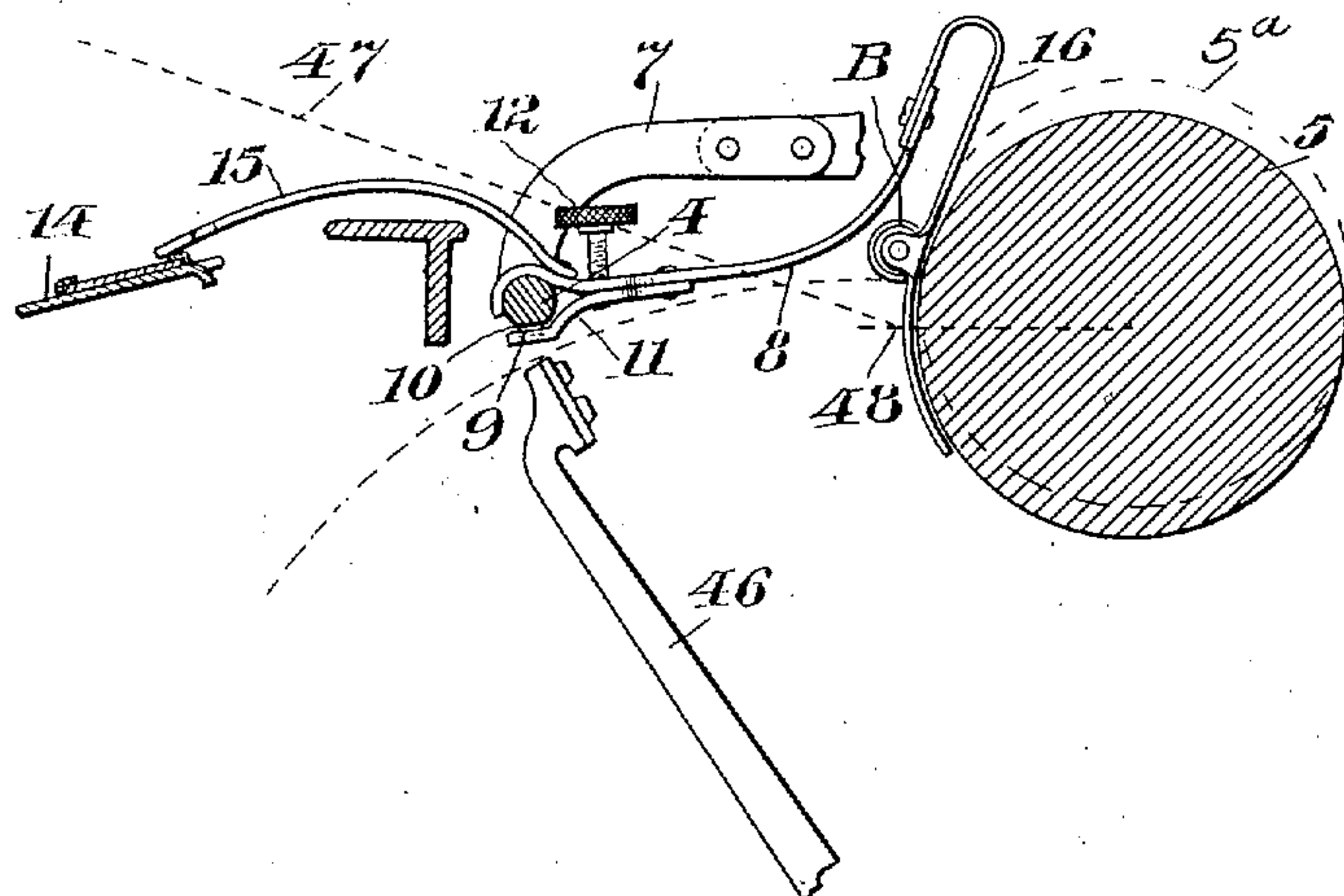


Fig. 3.

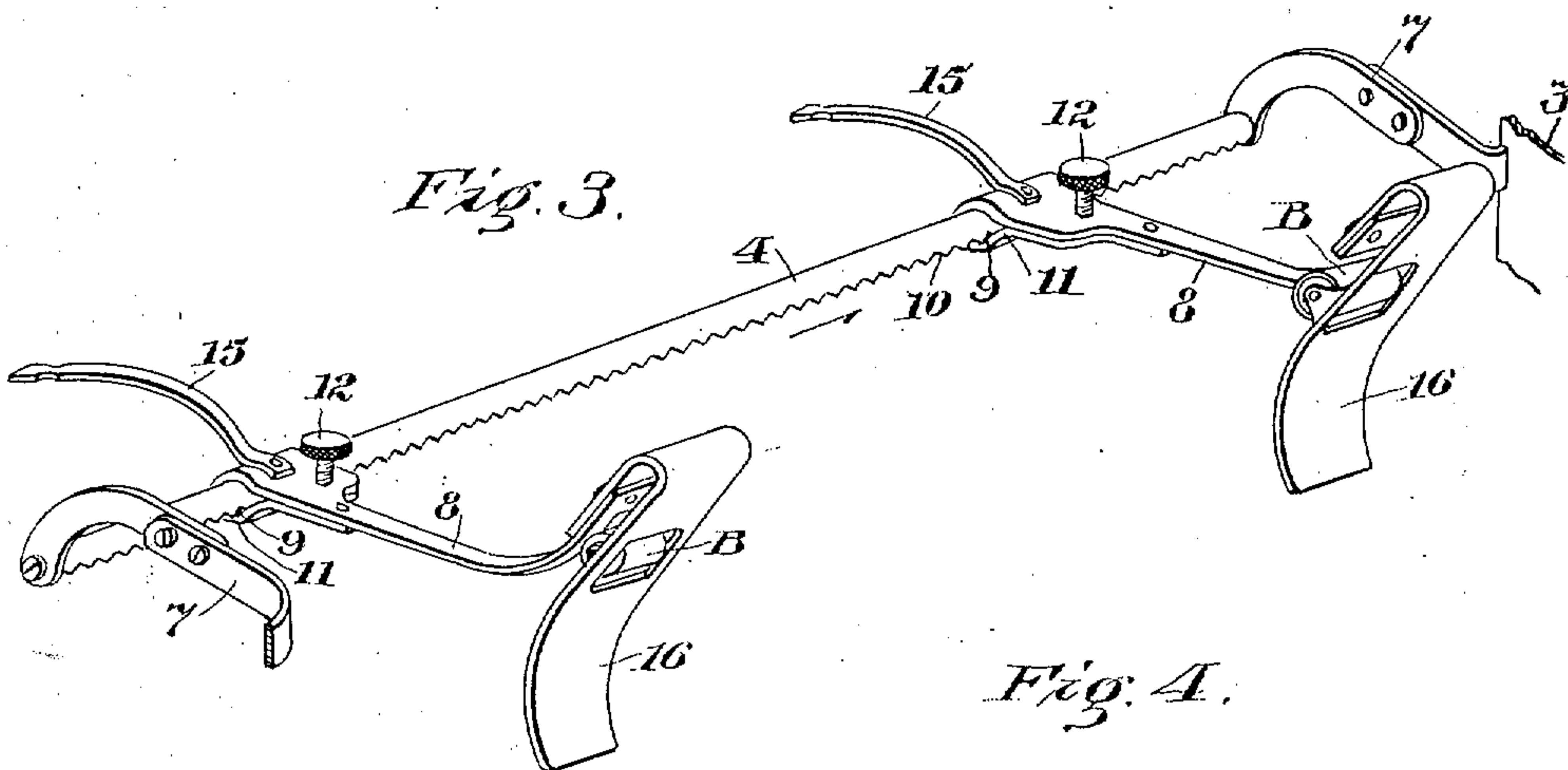
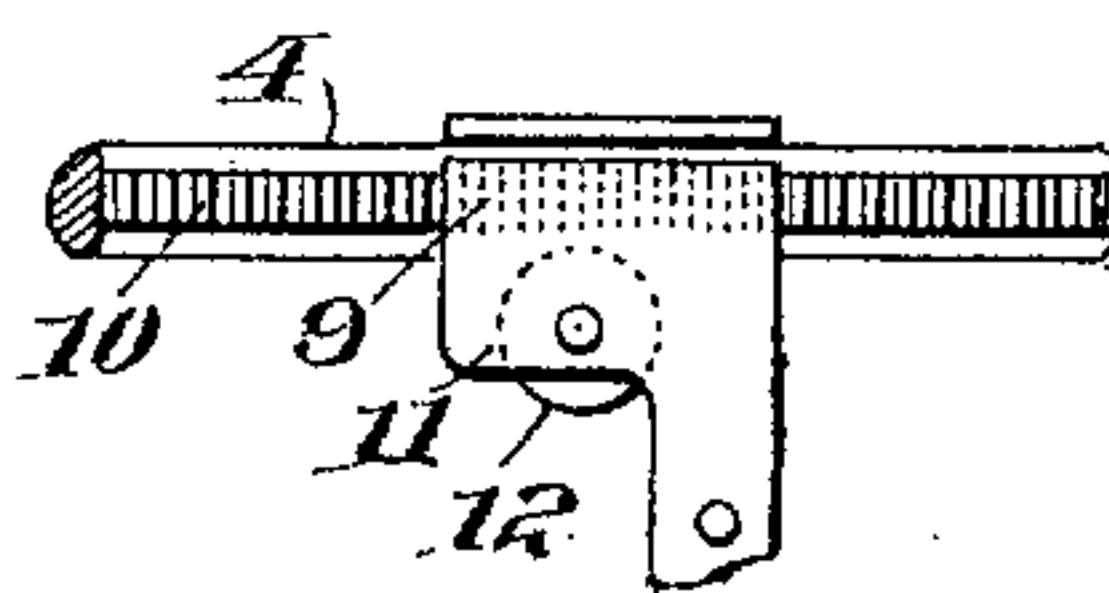


Fig. 4.



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JAMES DENNY DAUGHERTY, OF KITTANNING, PENNSYLVANIA.

TYPE-WRITING MACHINE.

No. 850,110.

Specification of Letters Patent.

Patented April 9, 1907.

Original application filed July 10, 1903, Serial No. 165,013. Divided and this application filed August 26, 1904. Serial No. 222,217.

To all whom it may concern:

Be it known that I, JAMES DENNY DAUGHERTY, a citizen of the United States, residing in Kittanning, in the county of Armstrong and State of Pennsylvania, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to the paper-guiding means of type-writing machines; and its principal object is to provide improved adjustable paper-guides for the front side of the platen in a front-strike writing-machine.

Paper-guides of this class are usually adjustable along the platen, a bar or rod being provided for their support. This bar or rod is in usual constructions either in the path of vision, so that a view of the work is obscured, or else so placed as to render the insertion and manipulation of the paper awkward, and to be otherwise objectionable.

By my invention the manipulation of the paper is at no time obstructed; nor is its width governed by the front paper-guides, either of which may, if desired, be placed so as to guide the middle of a sheet or card, or the two guides may be adjusted near together near the middle of the sheet or card, while the rod or bar along which the guides are adjustable is entirely out of the way.

In the accompanying drawings, Figure 1 is a top plan view of a type-writer of the Underwood class, showing my invention applied thereto. Fig. 2 is a sectional side elevation showing diagrammatically my improvement and the relative location of the parts. Fig. 3 is a perspective view of the improved paper-guides. Fig. 4 is an inverted view of a portion of the paper-guide-supporting rod and illustrates the manner of securing the guide adjustably thereon.

The framework of the machine is indicated at 1, the main carriage-frame at 2, and the platen-frame at 3, the latter being shiftable up and down for writing capitals and small letters, as usual in the Underwood machine. Fixed upon said platen-frame immediately in rear of the front bar 6 of the main carriage-frame is a horizontal rod or bar 4, along which are adjustable the front paper-guides presently to be described, said rod 4 being between the bar 6 and the platen 5 and extending, preferably, from end to end of the carriage. As seen at Fig. 2, when the shiftable platen-frame is in its normal lower position said rod 4 lies below the upper surface of the carriage-

bar 6. Said rod is fixed at its ends upon the front ends of a pair of rigid arms 7, extending forwardly from the main body of the platen-frame, so that the rod 4 and arms 7, taken together, may be regarded as a portion of the latter. The platen-frame and platen are shiftable upwardly from the full-line position at Fig. 2 until the platen reaches the dotted-line position at 5^a.

I employ a pair of front paper-guides 8, adjustably secured at their forward ends upon the rod 4 and extending therefrom rearwardly to the platen, the distance between said rod and the platen being considerable, as shown. Each paper-guide is formed with a clip 9 to embrace the rod, the latter upon its under side being formed with serrations 10, and one member 11 of said clip being provided with serrations or teeth to engage the serrations 10. By means of a clamping-screw 12 the clip may be loosened and tightened upon the rod. Any other suitable means may be provided for clamping or holding the paper-guides adjustably upon the rod.

Upon the paper-guides I prefer to fix forwardly-extending indexes 15, adapted to the usual front scale 14, the latter being provided for cooperation with the usual carriage-pointer A. The carriage may be set so that the latter stands opposite the middle of the scale, whereupon the paper-guides may be adjusted to any desired points upon the scale.

It will be observed that yielding paper-guiding fingers 16 are provided upon the rear ends of the elongated arms of the paper-guides, each finger being in the form of a yielding loop connected to the rear end of the arm and conforming to the front of the platen and carrying a guiding-roll B above the printing-line. These adjustable paper-guides do not interfere even in the slightest degree with the visibility of the writing, and owing to the length of the rod 4, which may be longer than the platen, as shown, either guide may be adjusted for substantially the entire length of the platen. The rod 4 and the main arms of the paper-guides are, moreover, so placed that they do not interfere in any manner with the insertion and manipulation of the paper in the machine. The rod, further, is so located as not to lie between the platen and the point at which the paper is inserted in the machine. Again, the arrangement of the parts is such that the paper when in the machine cannot in any manner

limit or interfere with the adjustment of the paper-guides to any point along the platen and will even permit, if occasion should arise, the movement of both guides to either end of the platen. A narrow strip of paper may also be guided at any desired point around the platen.

By reference to Fig. 2 it will be observed that the guide-supporting rod 4 is located above the paths of the type-bars 46 or so that the tips of the latter will pass freely beneath the rod and the clips 9 thereon. Moreover, said bar 4 is located sufficiently forward as to be below the line of vision, and hence so as not to obscure the writing. The lowest line of vision is indicated by the dotted line 47, and the printing-point is indicated by the reference-numeral 48. The bar 4 is located between the line of vision and the line of travel of the tips of the type-bars. The paper-guides may hence be adjusted across the normal writing-line of the machine without interfering with the visibility of the written matter.

Variations may be resorted to within the scope of my invention, and portions of my improvements may be used without others.

This application is a division of my co-pending application Serial No. 165,013, filed July 10, 1903, which does not cover, broadly, the features claimed herein, but is confined specifically to line-locking and other mechanism used in connection with the paper-guides claimed herein.

Having thus described my invention, I claim—

1. In a type-writing machine, the combination with a platen and type-bars mounted to strike rearwardly against the front of the platen, of a pair of fingers curving down around the front side of the platen and close thereto for guiding the side edges of the pa-

per; a rod upon which said paper-guiding fingers are independently adjustable along the platen; said rod being in front of the platen, above the paths of the types and below the line of vision; an index upon said guiding-finger, and a scale to cooperate with said index.

2. In a type-writing machine, the combination with a platen and type-bars mounted to strike rearwardly against the front of the platen, of a pair of fingers curving down around the front side of the platen and close thereto, for guiding the side edges of the paper, arms extending forwardly from said paper-guiding fingers, a rod in front of the platen, above the paths of the types and below the line of vision, means upon the front ends of said arms for claspingsaid rod so as to permit independent adjustment of the arms along the rod, an index upon each of said arms, and a cooperating scale.

3. In a type-writing machine, the combination with a carriage, a platen-frame shiftable up and down upon said carriage, a platen and type-bars mounted to strike rearwardly against the front of the platen, of a pair of fingers curving down around the front side of the platen and close thereto for guiding the side edges of the paper; a rod upon which said paper-guiding fingers are independently adjustable along the platen; arms extending forwardly from said fingers to said rod, and the latter being mounted upon said platen-frame in front of the platen, above the paths of the types and below the line of vision; an index upon said guiding-finger, and a scale upon the framework of the machine to cooperate with said index.

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