

No. 751,580.

PATENTED FEB. 9, 1904.

F. X. WAGNER.
TYPE BAR HOLDER.

APPLICATION FILED MAR. 20, 1903.

NO MODEL.

Fig. 1.

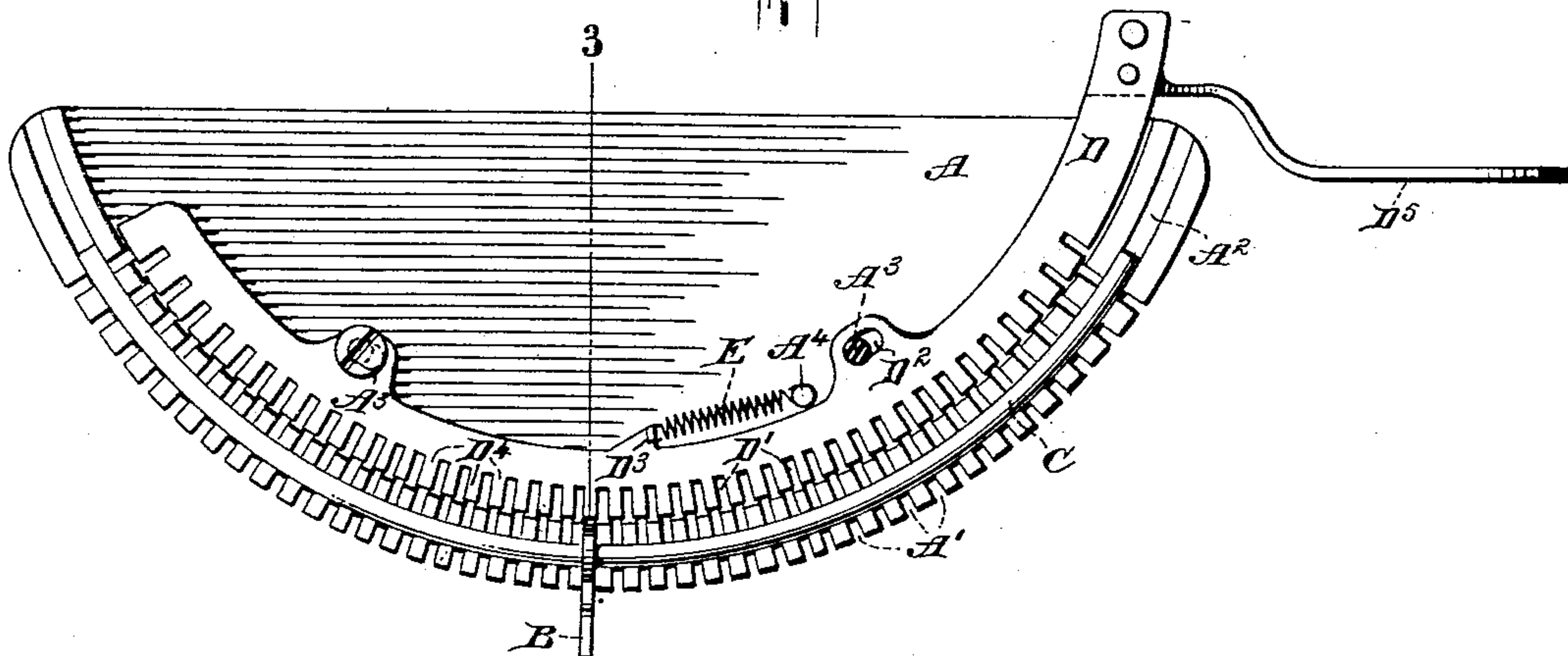


Fig. 2.

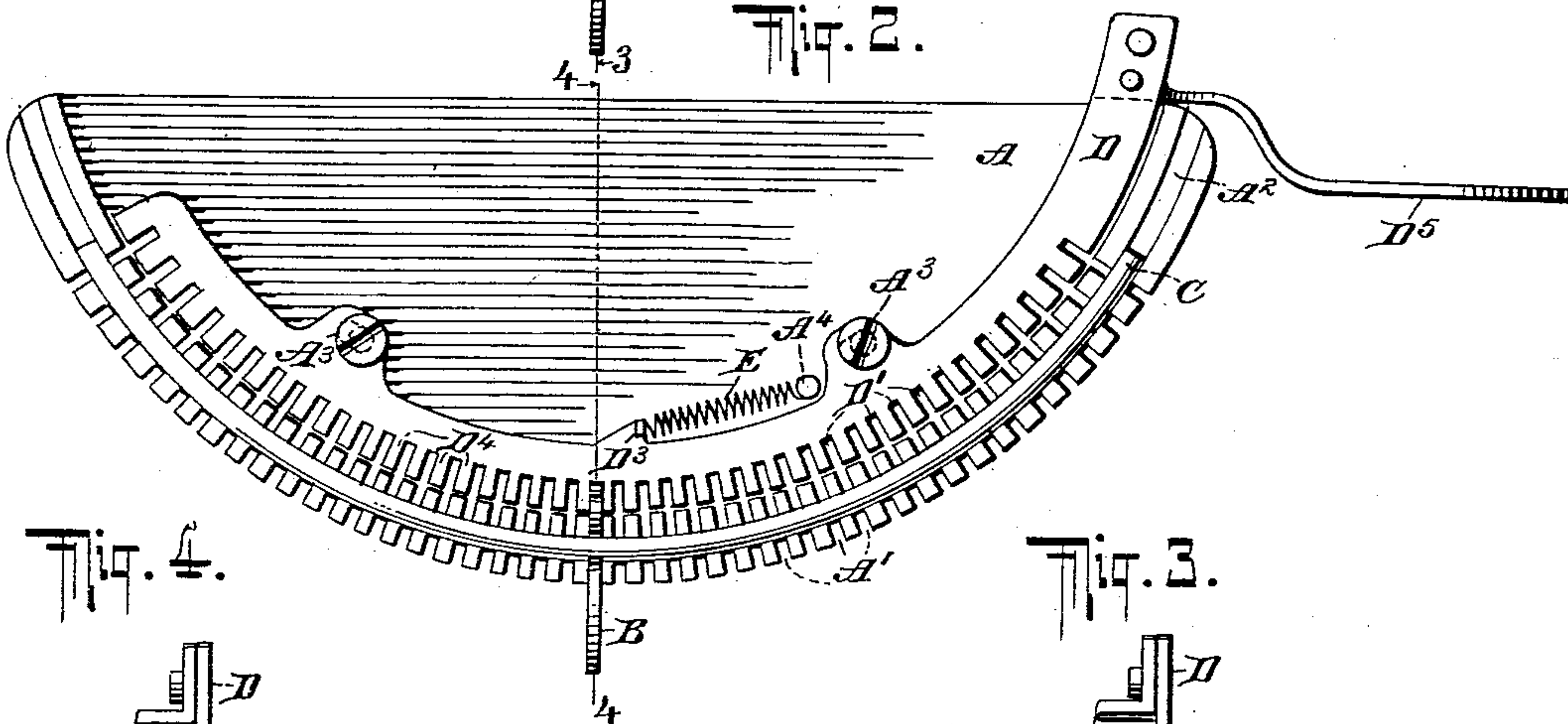


Fig. 4.

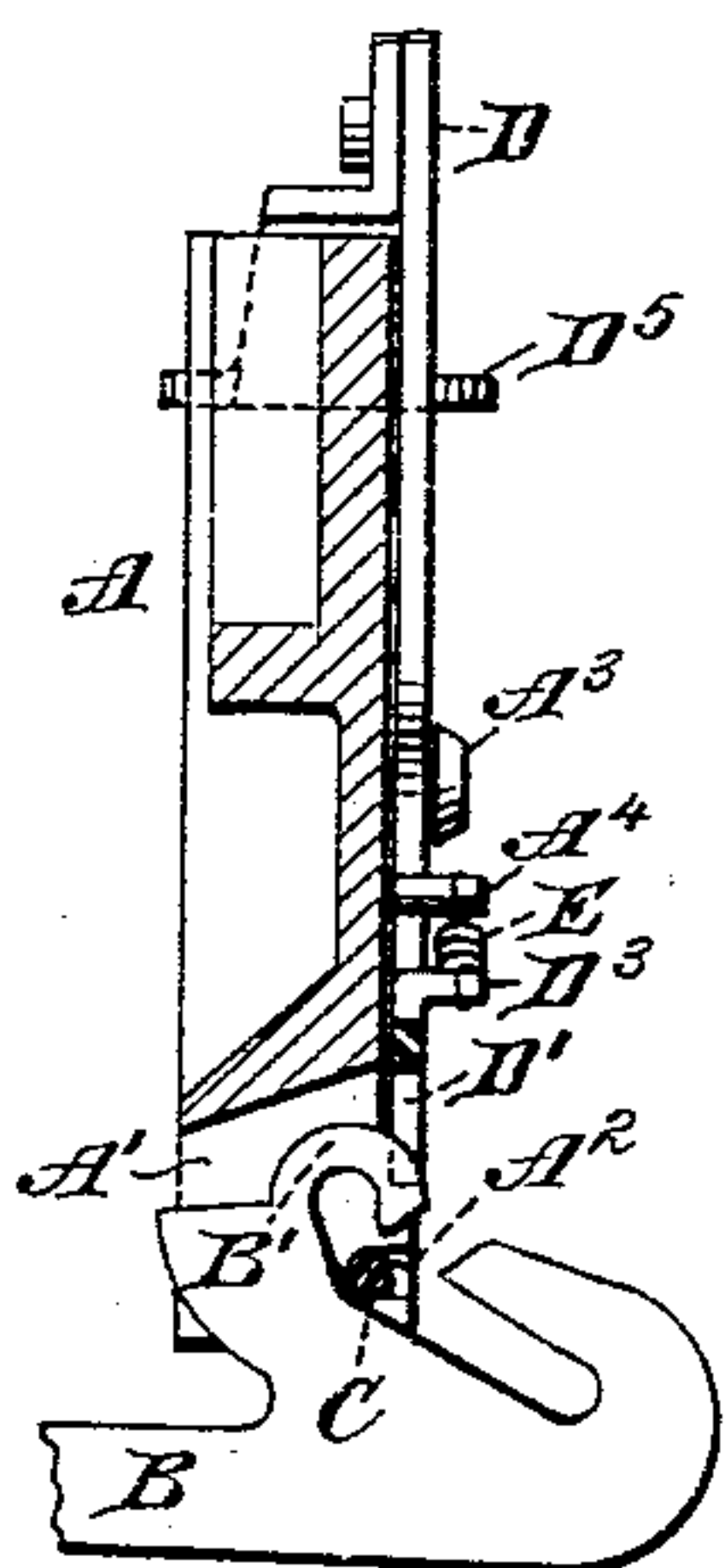
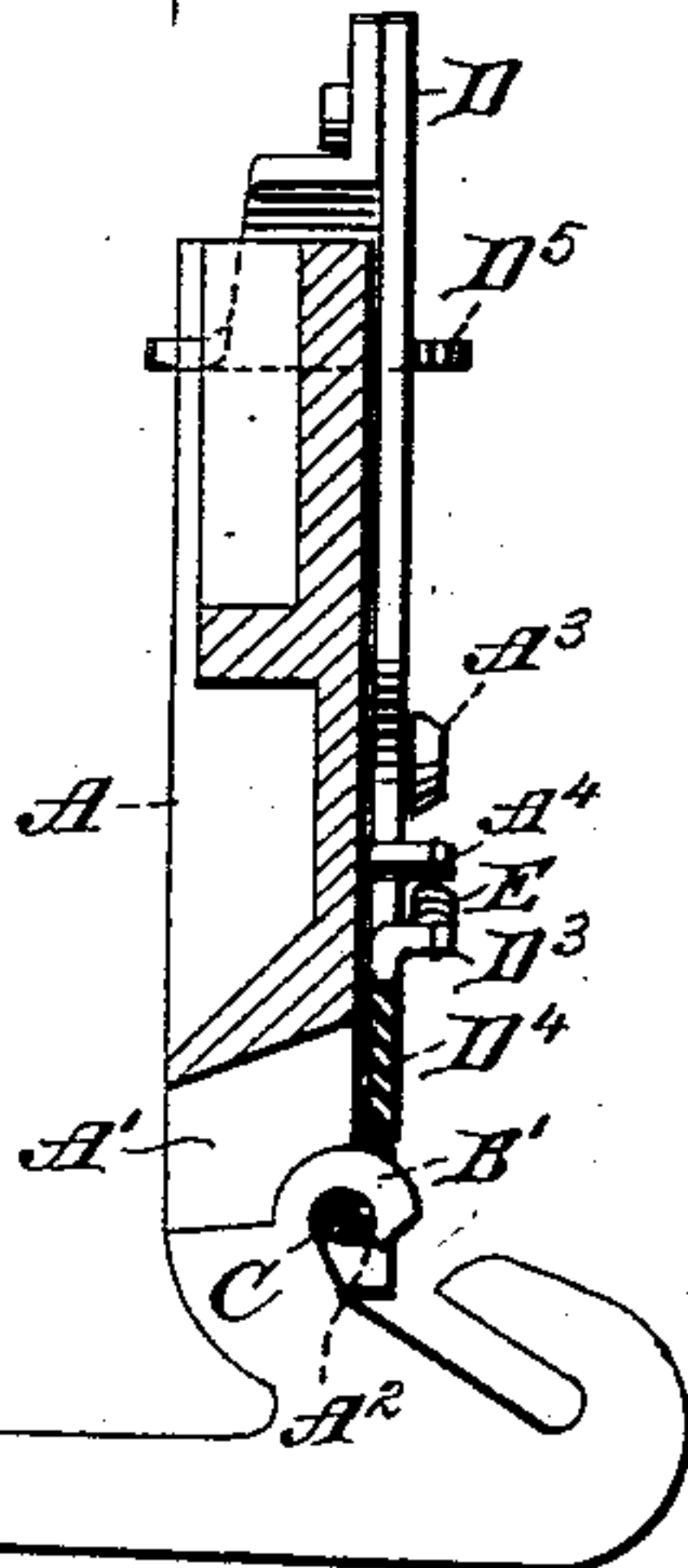


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANZ X. WAGNER, OF NEW YORK, N. Y., ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-BAR HOLDER.

SPECIFICATION forming part of Letters Patent No. 751,580, dated February 9, 1904.

Application filed March 20, 1903. Serial No. 148,669. (No model.)

To all whom it may concern:

Be it known that I, FRANZ X. WAGNER, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Type-Bar Holders, of which the following is a specification.

My invention relates to type-writers and like machines, and has for its object to provide a simple mechanism for efficiently securing the type-bars in their normal position, yet allowing them to be readily released and removed when desired.

To this end my invention consists of certain features of construction, which will be described in detail hereinafter, while the scope of the invention will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a rear elevation of the segment carrying the type-bars with my invention applied thereto, showing the same in the position in which it locks or secures the type-bars. Fig. 2 is a similar view with the parts in a different position, so as to release the type-bars; and Figs. 3 and 4 are sectional elevations on lines 3 3 of Fig. 1 and 4 4 of Fig. 2, respectively, Fig. 4 illustrating the manner of removing the type-bar.

A designates the segment which forms part of the type-writer frame and which is provided with a series of slots A', adapted to receive the pivot ends of the type-bars B. For the sake of clearness I have shown only one of these type-bars. The segment is provided upon its rear face and adjacent to the bottom with a curved groove A², into which the pivot C is driven lengthwise. The pivot may, however, be secured in any other suitable manner. It will be understood that the pivot extends across the several slots A'.

Each of the type-bars has the customary hook B', which may be fitted over the pivot C, as shown best in Fig. 3, and the slots A' are of sufficient extent to allow the hook B' to be lifted clear of the pivot C, as shown in Fig. 4, so as to enable the type-bar to be readily removed.

In order to normally prevent the removal of the type-bars, I employ a retainer, which consists of a toothed sector D, the notches D' of which are of sufficient width to allow the hooks B' of the type-bars B to move there-through. The distance between adjacent notches D' corresponds to the distance between adjacent type-bars. The toothed sector is mounted to slide upon pins or screws A³, secured to the segment A and extending through slots D² of the sector, the slots being so arranged that the sector will move in the arc of a circle which coincides with its own curvature. A spring E, secured to a lug D³ of the sector and to a stationary pin A⁴, normally keeps the sector D in the position illustrated by Figs. 1 and 3. In this position the teeth D⁴ between the notches D' register with the slots A', and these teeth extend adjacent to the hooks B' of the type-bars, so that the latter are securely held on the pivot C. When it is desired to release the type-bars, the sector D is shifted to the position shown in Figs. 2 and 4, thus bringing the notches D' into registry with the slots A' and allowing the type-bars to be disengaged from the pivot, as illustrated by Fig. 4. To facilitate moving the sector, I may provide it with a handle D⁵.

It will be seen that my improved device enables all type-bars to be released by one manipulation without, however, disengaging them from the pivot, so that any type-bar may be removed separately without disturbing the others. As soon as the retainer is released it is returned by its spring E to the position shown in Figs. 1 and 3, in which it secures the type-bars against accidental removal.

Various modifications may be made without departing from the nature of my invention.

I claim—

1. In a type-writer or other machine the combination with the support having a series of slots and pivoted type-bars arranged within said slots, of a movable retainer provided with notches and teeth extending adjacent to the slots of the support, and stops for limiting the movement of said retainer in either direction, the notches of the retainer registering with the slots of the support when the re-

tainer is at one limit of its movement; whereas, when the retainer is at the other limit of its movement, the teeth of the retainer register with the slots of the support.

5 2. In a type-writer or other machine the combination with the support having a series of slots and pivoted type-bars arranged within said slots, of a movable retainer provided with notches and teeth extending adjacent to
10 the slots of the support, and a spring for normally holding said retainer in position to close the slots of the support.

15 3. In a type-writer or other machine, the combination with the support having a series of slots and pivoted type-bars arranged within said slots, of a movable retainer provided with notches and teeth extending adjacent to the slots of the support, said notches and teeth being located at the same distance from each

other as the type-bars, and adapted to secure 20 or release the type-bars, according to the position of said retainer.

4. In a type-writer or other machine, the combination with the slotted segment, and the type-bars having their pivot ends within the 25 slots of said segment, of a toothed retainer mounted to move on said segment in the arc of a circle adjacent to the slots of the segment, and adapted to open or close the said slots, and a spring for normally holding said retainer 30 in position to close the slots of the segment.

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

FRANZ X. WAGNER.

Witnesses:

JOHN LOTKA,
EUGENE EBLE.