

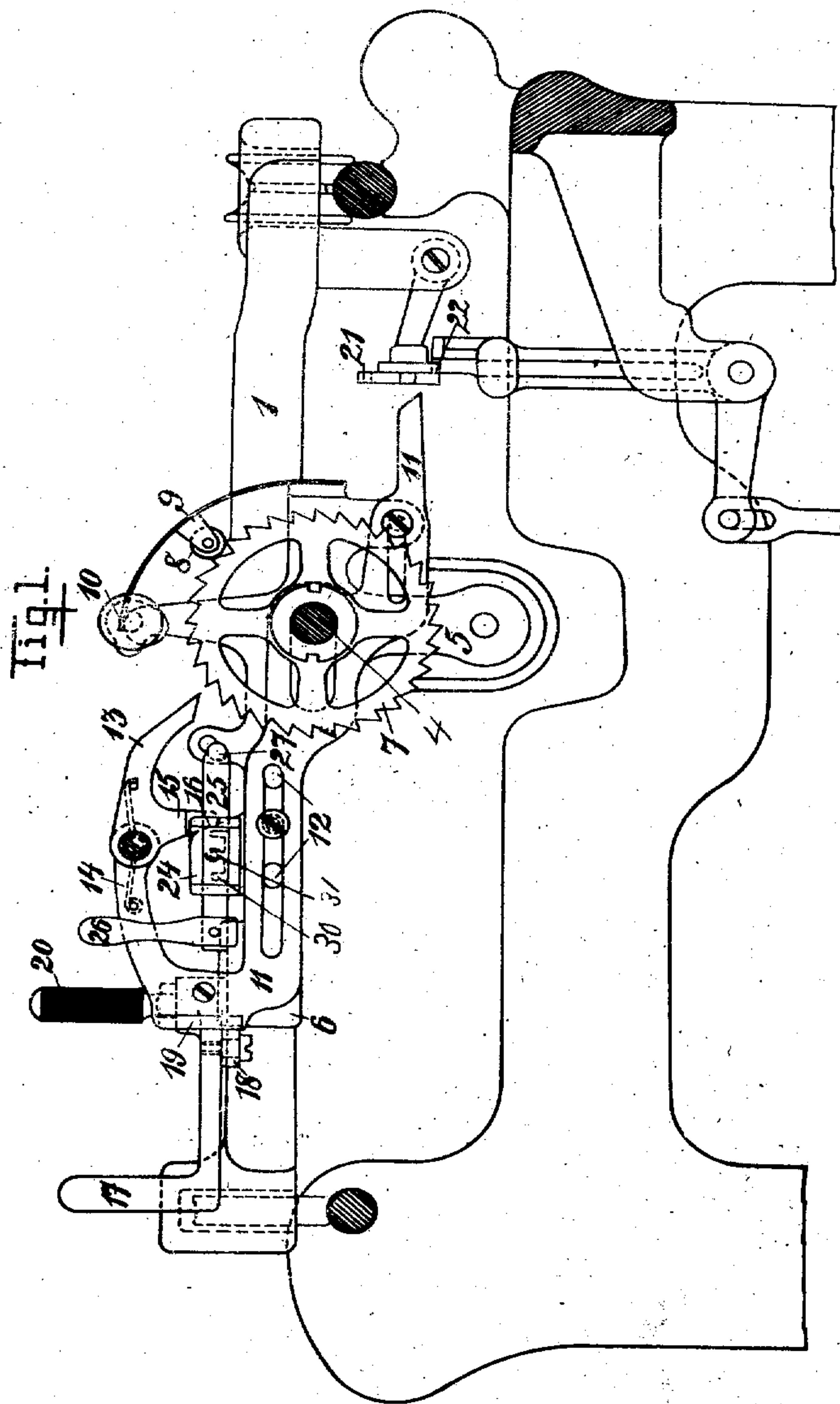
No. 892,964.

PATENTED JULY 7, 1908.

C. J. MOHNS.
SPACING DEVICE FOR TYPE WRITING MACHINES.

APPLICATION FILED JULY 14, 1904.

3 SHEETS—SHEET 1.



WITNESSES

Wm. L. Guler
Ella L. Guler

INVENTOR

Carl Julius Mohns

Richardson

ATTORNEYS

No. 892,964.

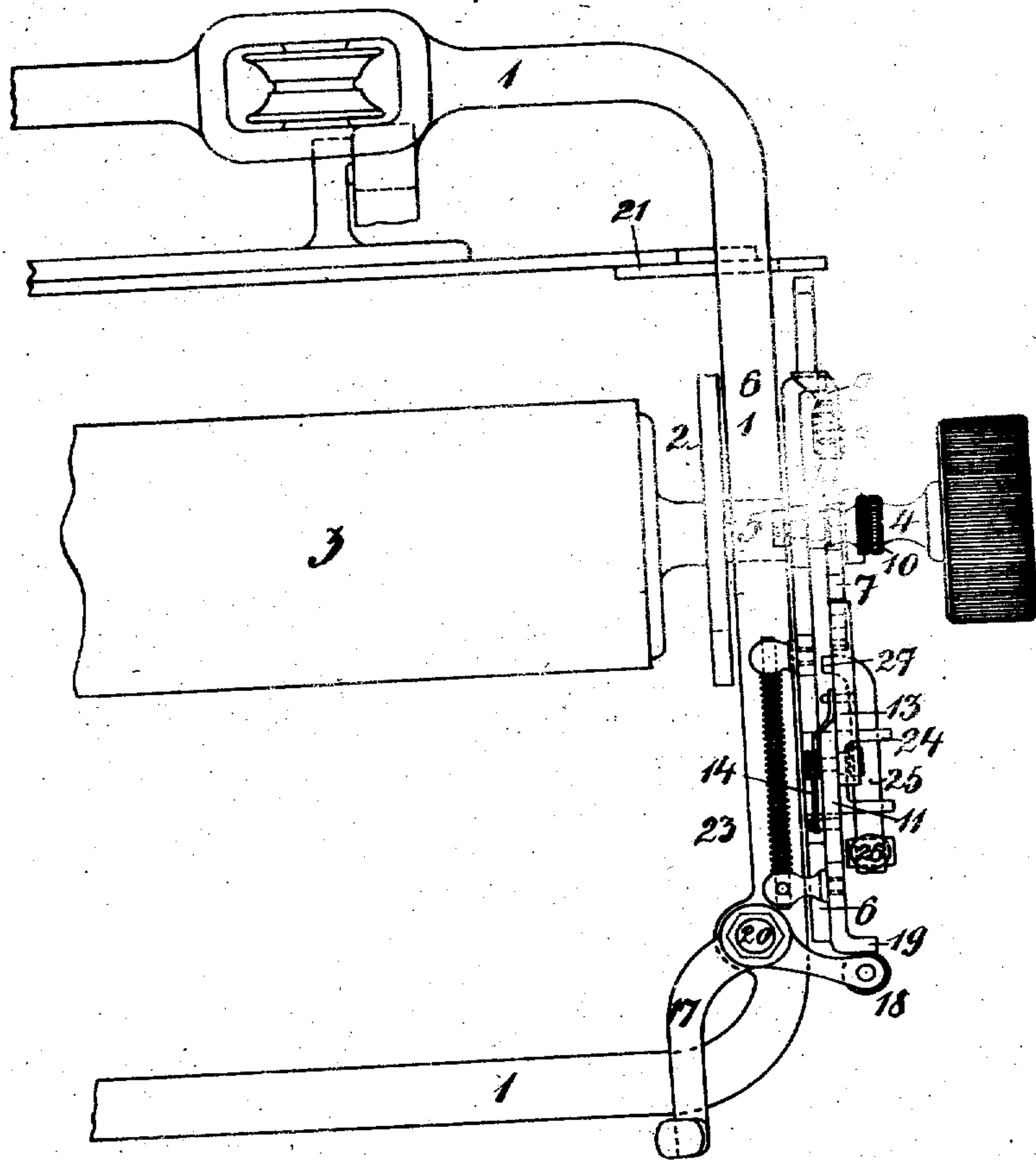
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3 SHEETS—SHEET 2

Fig. 2.



WITNESSES

Wm. J. Gale
Ella L. Gale

INVENTOR

Carl Julius Mohns.

By *Richardson*

ATTORNEYS

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3 SHEETS—SHEET 3.

Fig. 3.

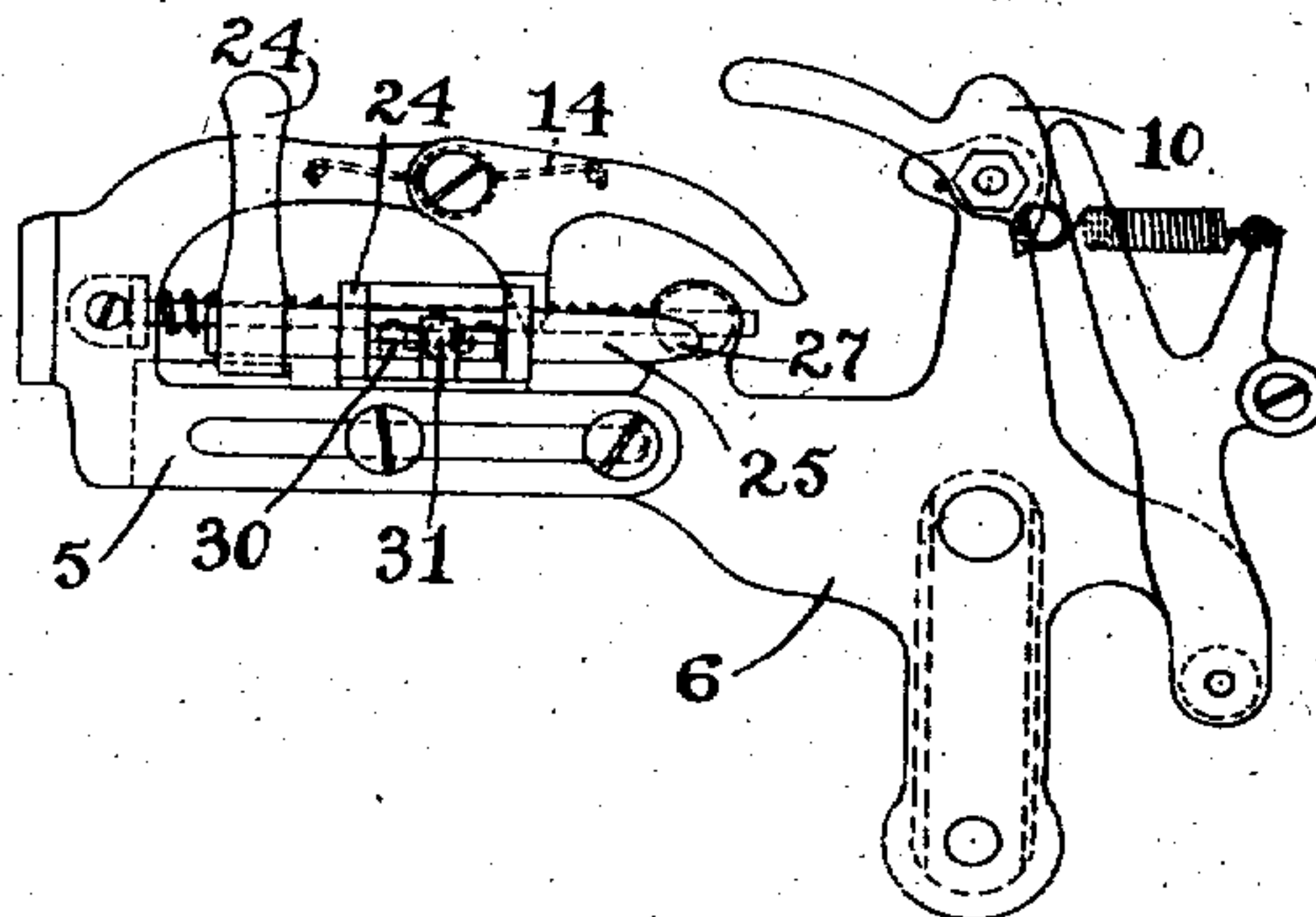


Fig. 4.

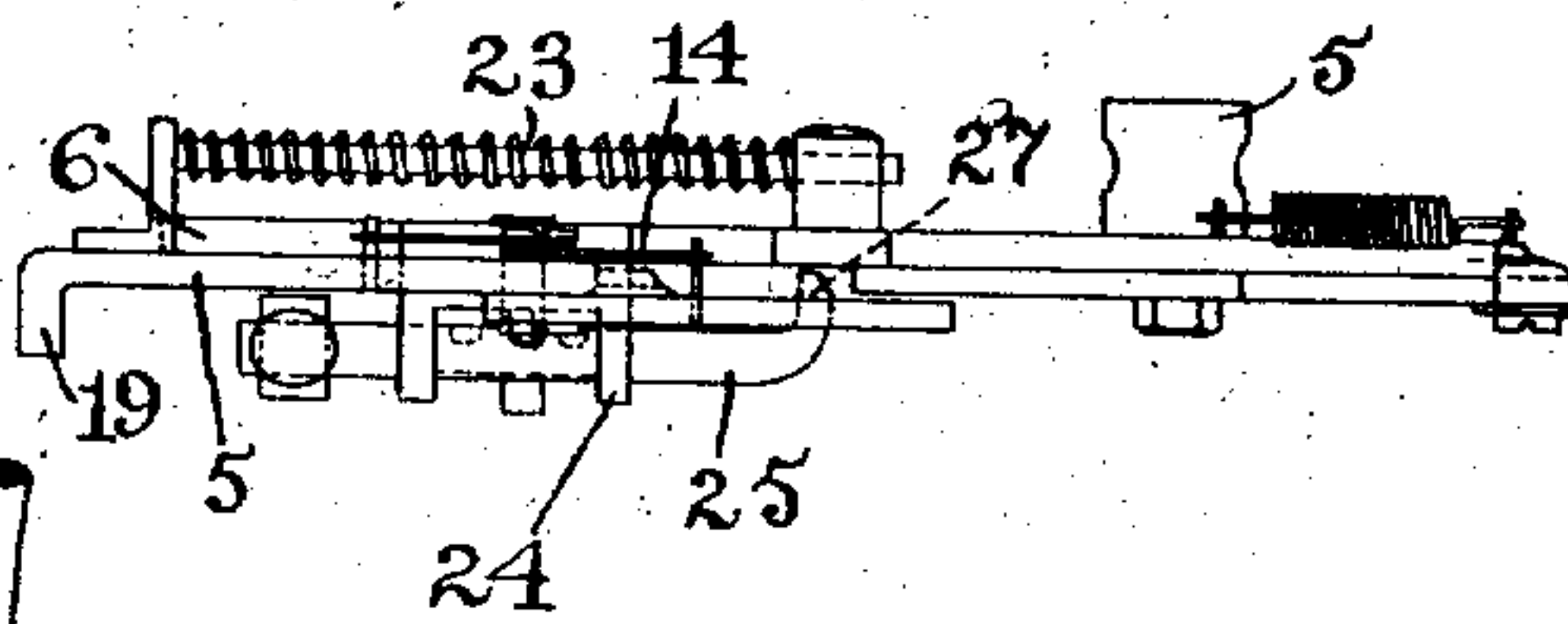


Fig. 5.

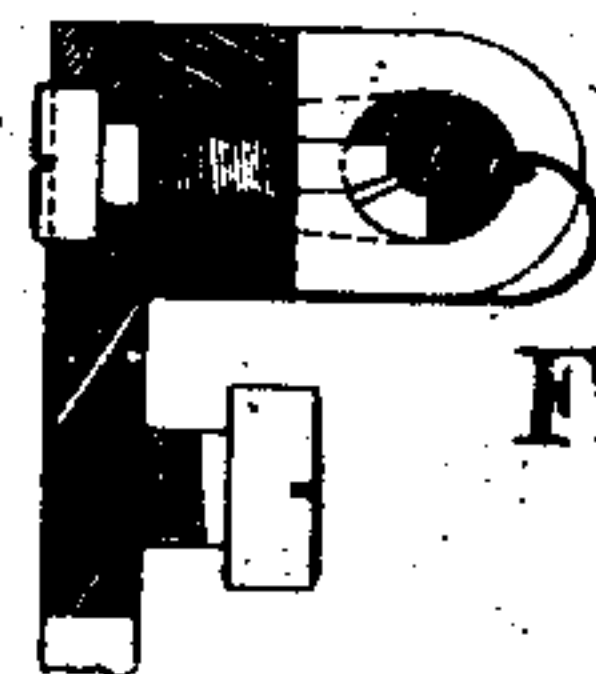
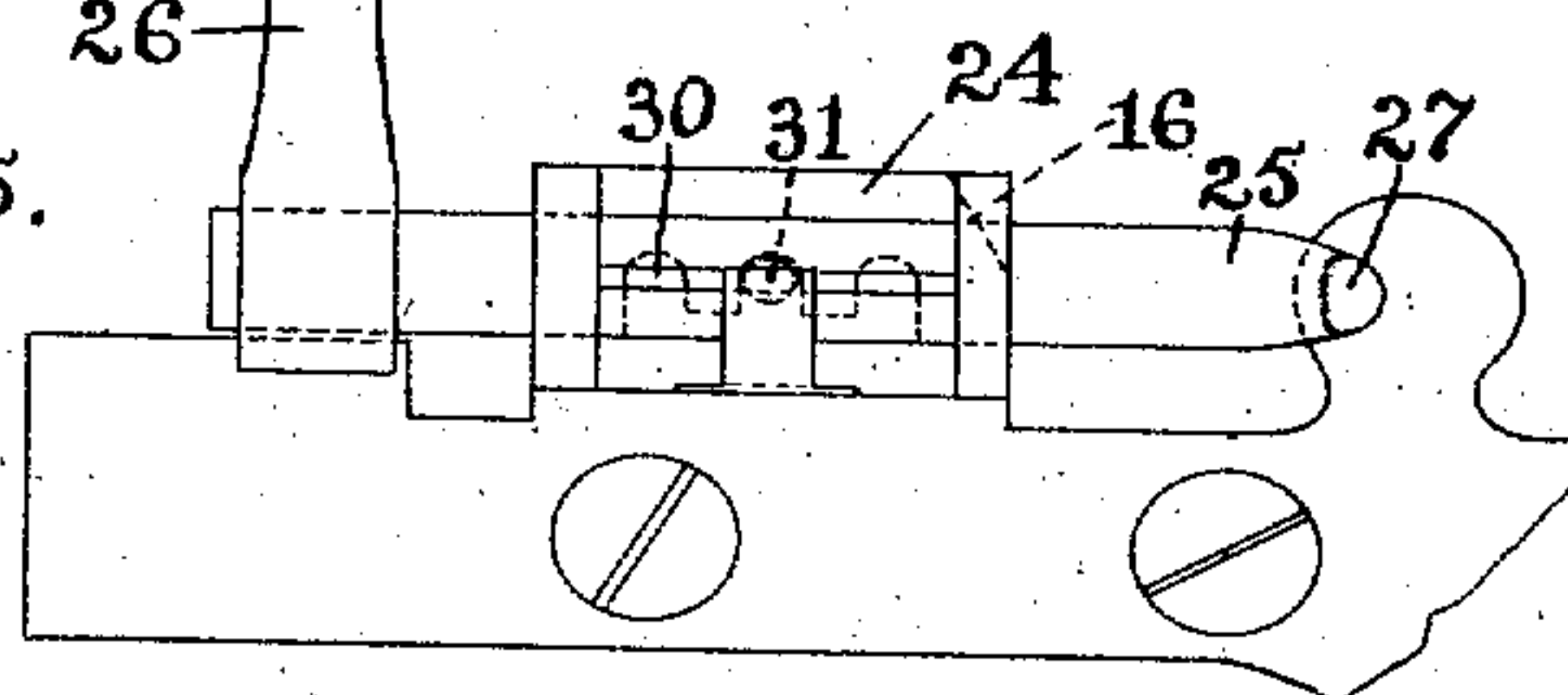
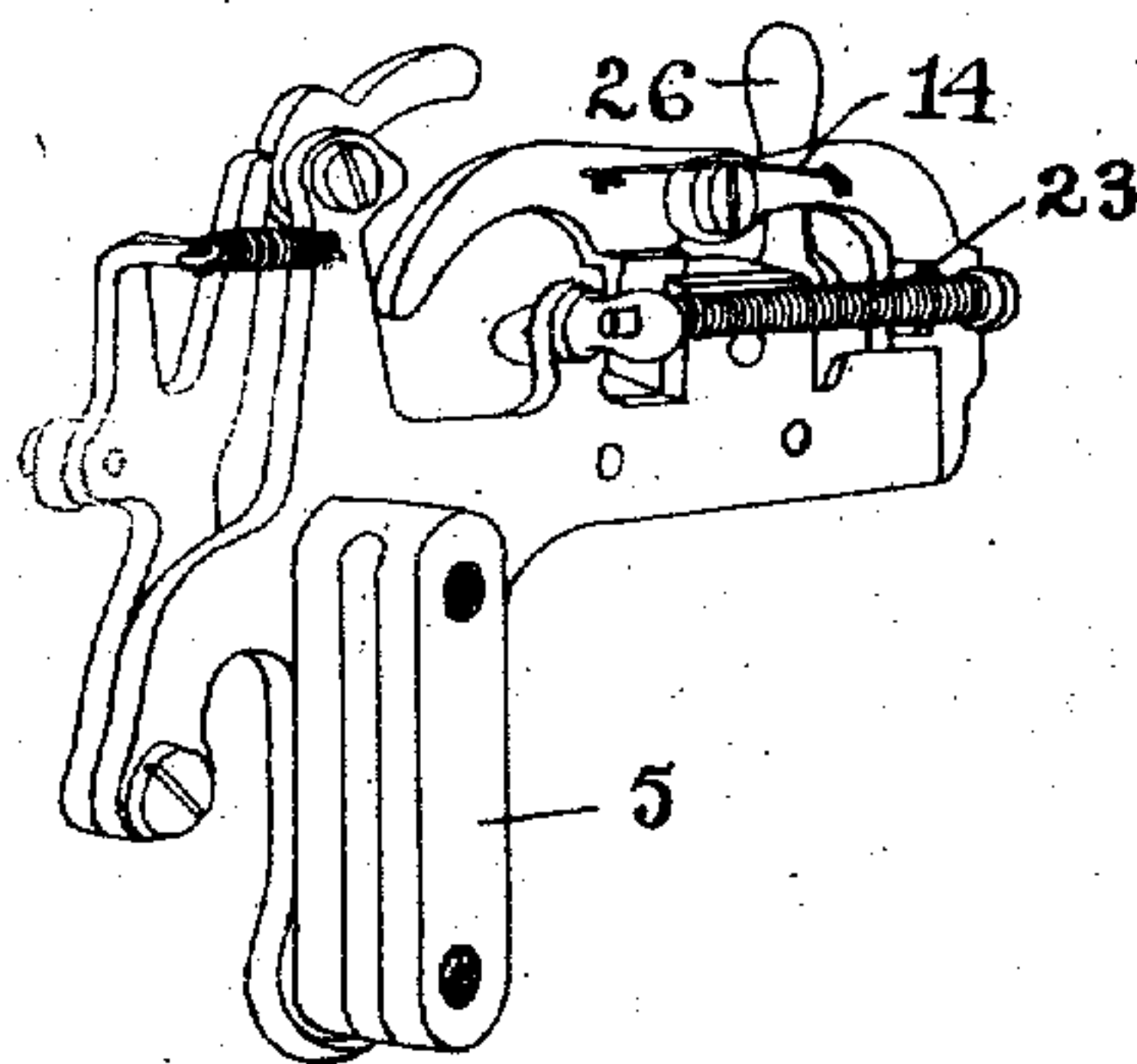


Fig. 6.

Fig. 7.



WITNESSES

W. P. Burke
W. H. Kennedy.

INVENTOR

Carl Julius Mohns
By Richard & Co.

ATTY

UNITED STATES PATENT OFFICE.

CARL JULIUS MOHNS, OF CHEMNITZ, GERMANY, ASSIGNOR TO WANDERER FAHRRADWERKE
VORM. WINKLHOFFER & FAENICKE A. G., OF SCHÖNAU, NEAR CHEMNITZ, GERMANY.

SPACING DEVICE FOR TYPE-WRITING MACHINES.

No. 892,964.

Specification of Letters Patent.

Patented July 7, 1908.

Application filed July 14, 1904. Serial No. 216,626.

To all whom it may concern:

Be it known that I, CARL JULIUS MOHNS, a subject of the King of Prussia, residing at Chemnitz, Kingdom of Saxony, Germany, have invented a certain new and useful Spacing Device for Type-Writing Machines.

The present invention relates to a spacing device for typewriting machines having front striking type, and having a paper roller the height of which is adjustable.

The object of the present invention is to so construct and arrange this device, in contrast with the well known constructions employed in machines of the type indicated above, that the device forms a complete whole, independently of all other parts. The device thus formed as a complete whole can be readily assembled, and is also connected with the parts for receiving the paper roller in such a way that it can be readily fitted up and taken off. This object is arrived at by arranging all the parts on a plate, said plate being fixed or screwed upon a slide-bearing of the paper roller frame, or said plate may be formed in one piece with the slide-bearing.

One embodiment of the present invention is illustrated in the accompanying drawings, in which

Figure 1 shows a side elevation of the spacing device, and Fig. 2 a plan of the same. Fig. 3 is a front view of the plate and slide detached; Fig. 4 is a plan view thereof; Fig. 5 is an enlarged view showing the adjusting bar 25 and its cooperating parts; Fig. 6 is a sectional view thereof; and Fig. 7 is a perspective view taken from the rear side of Fig. 3.

The paper roller frame 2 together with the paper roller 3, which is adjustable in height, are supported on the carriage 1. The paper roller lies, with its pivots 4 in slide-bearings 5 which are movable vertically in the carriage 1. On one of these slide bearings 5, preferably the right hand one, a plate 6 is arranged, which is only for the purpose of receiving the separate parts of the spacing device. The spacing wheel 7 is set by means of a screw thread on the pivot 4 and is locked by a roller 8, which is carried by a spring 9. This spring 9 is fastened on the plate 6. Thus as the plate 6 and wheel 7 are carried on the bearing 5 they will move up and down with said bearing.

For the raising of the roller 8 an eccentric button 10 is provided, which is likewise revolvably mounted on the plate 6. The spacing

slide 11 also slides on the plate 6, said slide being guided by the pins 12. The spacing slide 11 carries the spacing pawl proper 13 on its upper part, said spacing pawl, on being displaced or shifted, being pressed by a spring 14 into engagement with the teeth of the spacing wheel 7. In the position of rest, the spacing pawl 13 strikes, by means of its projection 15, against the inclined surface 16 and is raised away from the spacing wheel, so that the paper roller can be turned in any desired direction, by means of the small hand wheels. The spacing slide 11 is moved by means of the spacing lever 17, which is supported in bearings on the carriage frame 1, or on the plate 6. In the drawing the spacing lever 17 is mounted on the frame 1 thus the lever is stationary. It carries a roller 18 which acts against a vertical plate 19 on the spacing slide. This pressure plate 19 is of such a size that the roller 18 always lies against the plate, whether the paper roller be raised or lowered. The spacing lever 17 is secured to the frame 1 by means of a screw 20 having an enlarged head which can be utilized as a handle for shifting the carriage.

The spacing slide 11 is provided below with a prolongation, which, when the spacing slide moves forward, raises the escapement wheel 21 of the carriage by means of its beveled-off point coming under said wheel, and brings it out of engagement with the escapement dogs 22, so that the carriage can be moved backwards and forwards as desired. When the paper roller is raised, the spacing slide engages with its beveled off point, not under the escapement wheel 21, but in a slot in this escapement wheel, whereby the same is likewise raised. The spring 23 serves for drawing back the spacing slide into its position of rest.

In order to regulate the motion of the spacing pawl 13, or in order to fix the distance between the lines, a shaft 25 is revolvably and slidably arranged in the guide 24 on the plate 6. The guide 24 is suitably provided with the inclined surface 16, which serves for raising the spacing pawl. The shaft 25 is provided with a handle 26 on one side, and on the other side, with an abutment 27, which is so arranged on the shaft that, after being set, it is in the path of the projection 15 of the spacing pawl 13. The shaft 25 is provided with a stud 31 which is adapted to engage the notches 30 arranged in the guide

24, the distance between the notches corresponding to one or more teeth of the escapement wheel. To adjust this shaft the handle 26 is turned down to an angle of 90°, the shaft adjusted to the desired position and the handle 26 returned to its original position causing the stud 31 to engage one of the notches in the guide 24 and so lock the shaft in its adjusted position. The plate 6 can be connected in any desired manner with the corresponding slide bearing 5, or it can be formed in one piece with the same.

The entire line spacing mechanism is carried by the plate 6 and as this plate 6 is carried by the movable bearings of the paper roller, or platen, this mechanism will move with said platen.

It is to be understood that the scope of the present invention is not limited to the particular embodiment shown in the drawings and described, but that the scope is as indicated by the following claims.

What I claim is:

1. In a typewriting machine the combination with the machine frame, slide bearings therein, a platen mounted in said bearings, spacing mechanism and means for adjusting the same, of a plate secured to one of said bearings and adapted to carry said spacing mechanism and the means for adjusting the same, substantially as described.

2. In a typewriting machine the combination with the machine frame, the bearings, the platen mounted in said bearings and a removable plate carried by one of said bearings, of spacing mechanism and means for operating the same mounted on said plate and removable therewith, substantially as described.

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

CARL JULIUS MOHNS.

Witnesses:

ERNST C. MEYER,
CARL FALHER.

Correction in Letters Patent No. 892,964.

It is hereby certified that the name of the assignee in Letters Patent No. 892,964, granted July 7, 1908, upon the application of Carl Julius Mohms, of Chemnitz, Germany, for an improvement in "Spacing Devices for Type-Writing Machines," was erroneously written and printed "Wanderer Fahrradwerke vorm. Winklhofer & Faenicke A. G.," whereas said name should have been written and printed *Wanderer Fahrradwerke vorm. Winklhofer & Jaenicke A. G.*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 12th day of January, A. D., 1909.

[SEAL.]

C. C. BILLINGS,
Acting Commissioner of Patents.

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