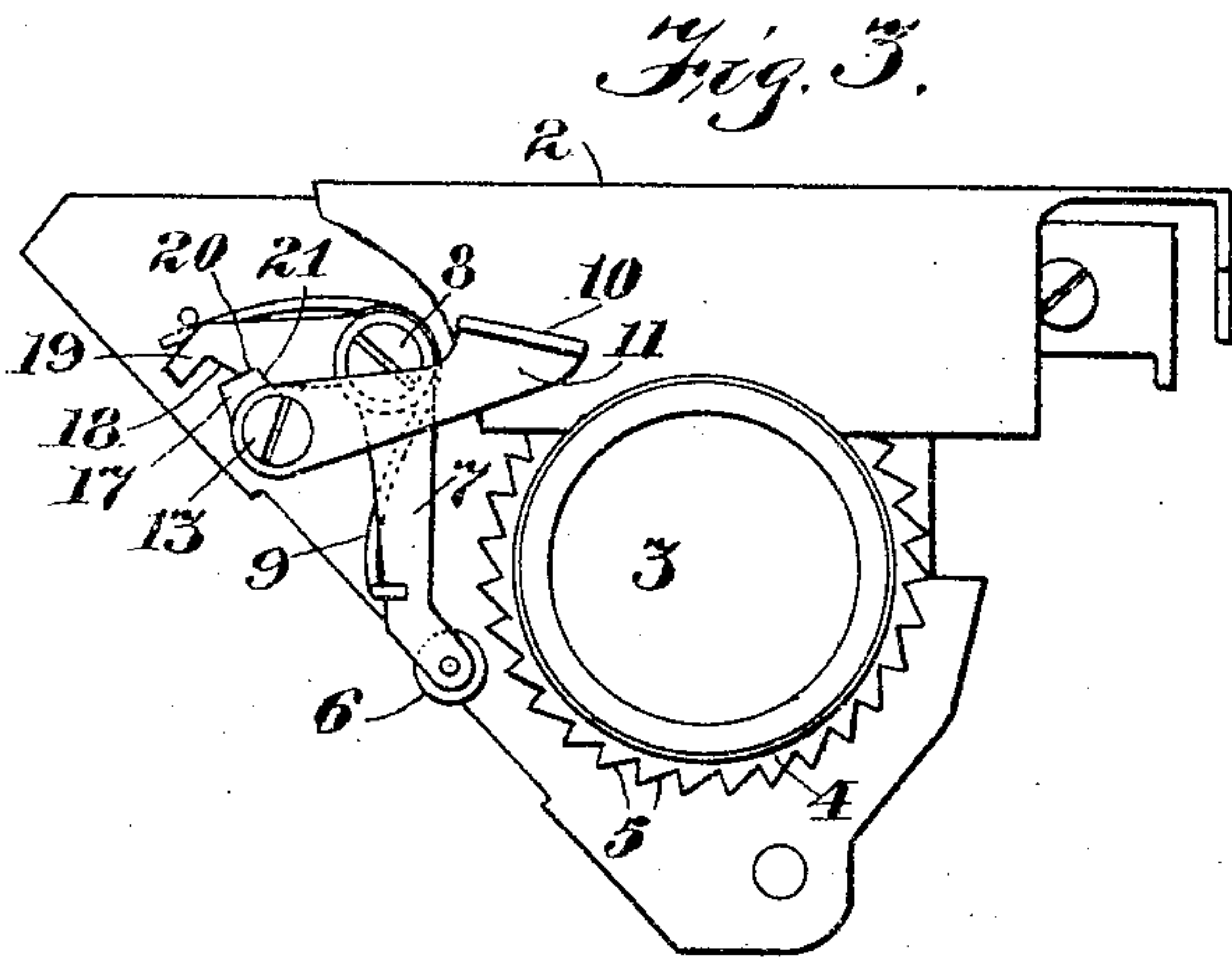
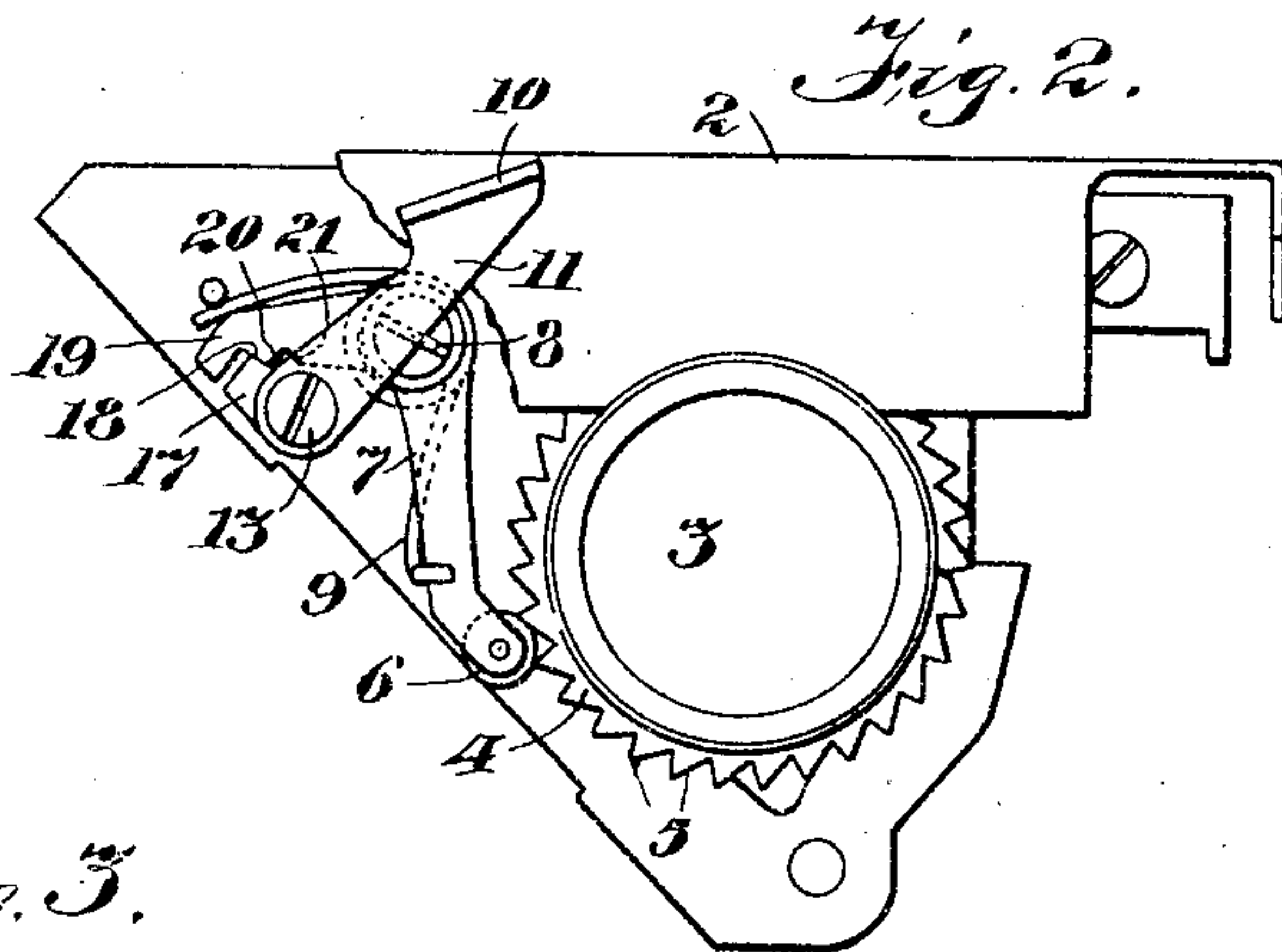
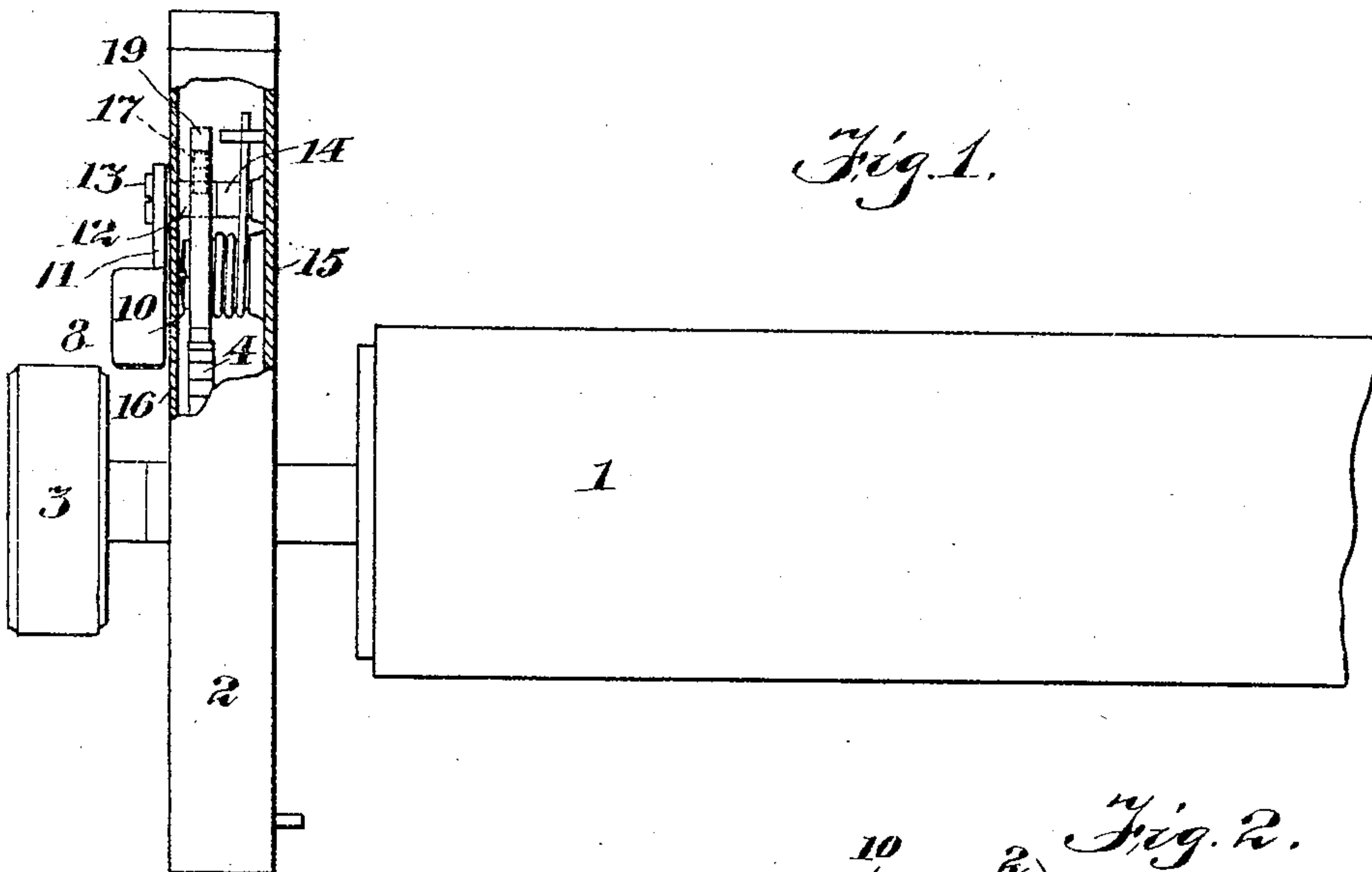


No. 779,942.

PATENTED JAN. 10, 1905.

O. C. KAVLE.
TYPE WRITING MACHINE.
APPLICATION FILED AUG. 13, 1904.



WITNESSES:
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OSCAR C. KAVLE, OF HARTFORD, CONNECTICUT, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 779,942, dated January 10, 1905.

Application filed August 13, 1904. Serial No. 220,588.

To all whom it may concern:

Be it known that I, OSCAR C. KAVLE, a citizen of the United States, residing in Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to the revoluble platens of type-writing machines, and particularly to the means whereby the platen is released from the control of the usual line-space detent.

The object of the invention is to provide an effective, simple, inexpensive, and convenient device for releasing the platen.

In the accompanying drawings, Figure 1 is a plan, and Fig. 2 an end elevation, of my improvement applied to an Underwood type-writing machine, the parts being shown in normal position. Fig. 3 is a view similar to Fig. 2, but showing the platen released.

The platen 1 is journaled in a platen-frame 2 and provided with a finger-wheel 3, whereby it may be rotated. Upon the platen-axle is secured a line-space wheel 4, having notches 5 engaged by a roller 6, mounted upon the free end of an arm 7, pivoted at 8 to the platen-frame. A spring 9 presses the arm 7 toward the line-space wheel, said arm, with its roller, forming a detent for holding the platen against accidental rotation during the writing of a line thereon. The platen may, however, be rotated at any time by means of the finger-wheel 3 or by the usual line-spacing mechanism, the detent 7 not having sufficient power to lock the platen against rotation, but yielding to permit such rotation when sufficient force is applied. For releasing the platen altogether from the control of said detent I provide a depressible key 10, formed upon the forward end of a lever 11, having a hub or bearing 12, pivoted, by means of a shoulder-screw 13, upon a stud 14, fixed upon the inner wall 15 of the platen-frame, the outer wall thereof being seen at 16 and the line-space wheel, detent, and spring being

confined between said walls. Said hub 12 is formed with a projection or short arm 17, adapted to engage a cam 18, formed upon an arm 19, which is rigid with the detent 7, so that when the key 10 is depressed the projection 17 acts upon the cam 18 and lifts the arm 19, thereby vibrating the detent away from the line-space wheel, and hence releasing the platen.

At the end of cam 18 is formed a notch, one surface, 20, whereof forms a rest and the other portion, 21, whereof forms a stop to limit the vibration of the key-lever 11. The tip of projection or arm 17 engages said rest 20, as at Fig. 3, to hold the detent in a position of disuse, so that the operator may use both hands in adjusting the platen and paper while the platen is released. When it is desired to reengage the detent with the line-space wheel, it is only necessary to lift the key 10, which vibrates the projection 17 out of the notch in the arm 19. Normally the release-key lever does not interfere with the slight vibrations of the detent as the roller rides over the teeth of the line-space wheel.

Having thus described my invention, I claim—

1. In a type-writing machine, the combination of a revoluble platen, a platen-frame, a line-space wheel connected to said platen and provided with teeth, a spring-pressed detent having a roller engaging said line-space wheel, an arm upon said detent and provided with a cam and a stop, and a finger-lever pivoted upon the platen-frame and having an arm to engage said cam and thereby vibrate said detent away from said line-space wheel; said stop being in the path of said lever-arm for arresting the same; and said detent-arm having a rest between said stop and said cam, to bear upon the end of said lever-arm, whereby the detent is held away from the line-space wheel.

2. In a type-writing machine, the combination of a revoluble platen, a platen-frame, a line-space wheel connected to said platen and

provided with teeth, a spring-pressed detent
having a roller engaging said line-space wheel,
and a finger-lever pivoted upon the platen-
frame independently of the platen-bearings;
5 said detent and said finger-lever being pro-
vided with coöperative camming members
whereby said detent is swung away from said
line-space wheel, and also with means whereby

said detent is held away from said wheel; and
a stop being also provided for limiting the re-
leasing movement of said finger-lever.

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Witnesses:

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