

No. 885,057.

PATENTED APR. 21, 1908.

W. KRAFT.
TYPE WRITING MACHINE.
APPLICATION FILED AUG. 6, 1907.

3 SHEETS—SHEET 1.

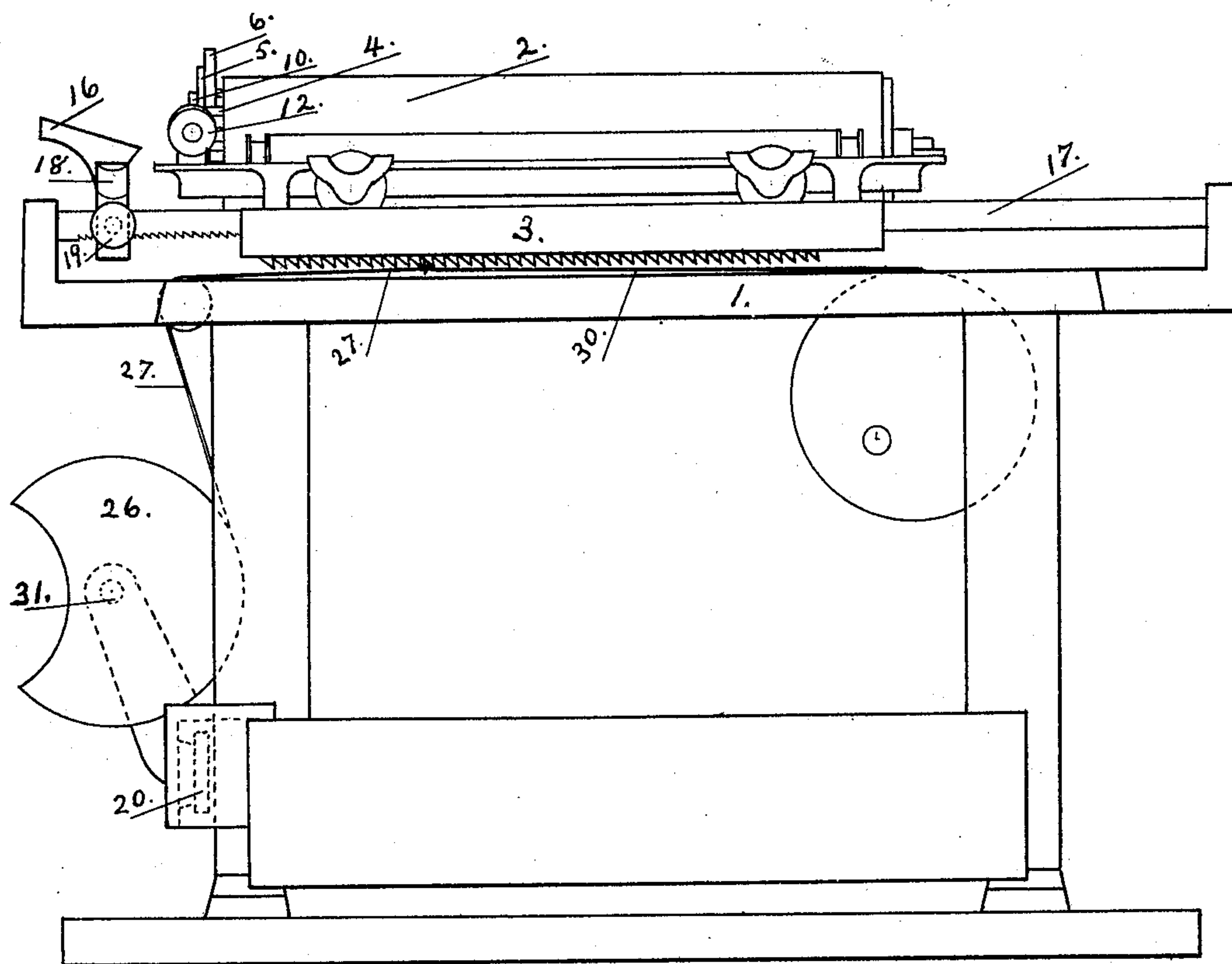


FIG. 1.

WITNESSES:

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Mr. H. Varney

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INVENTOR,

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William W. Varney
HIS ATTORNEY.

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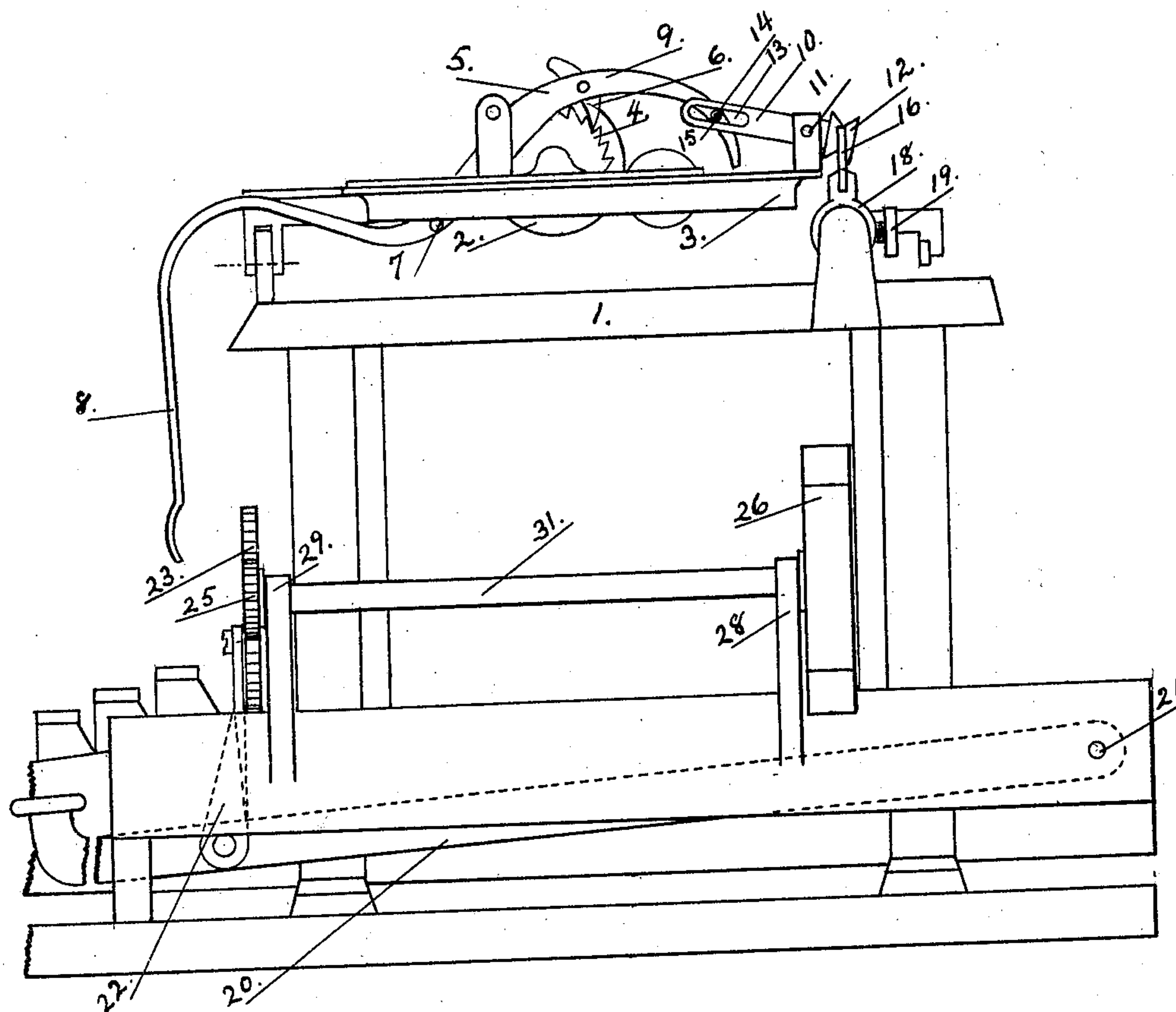


FIG. 2.

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3 SHEETS—SHEET 3.

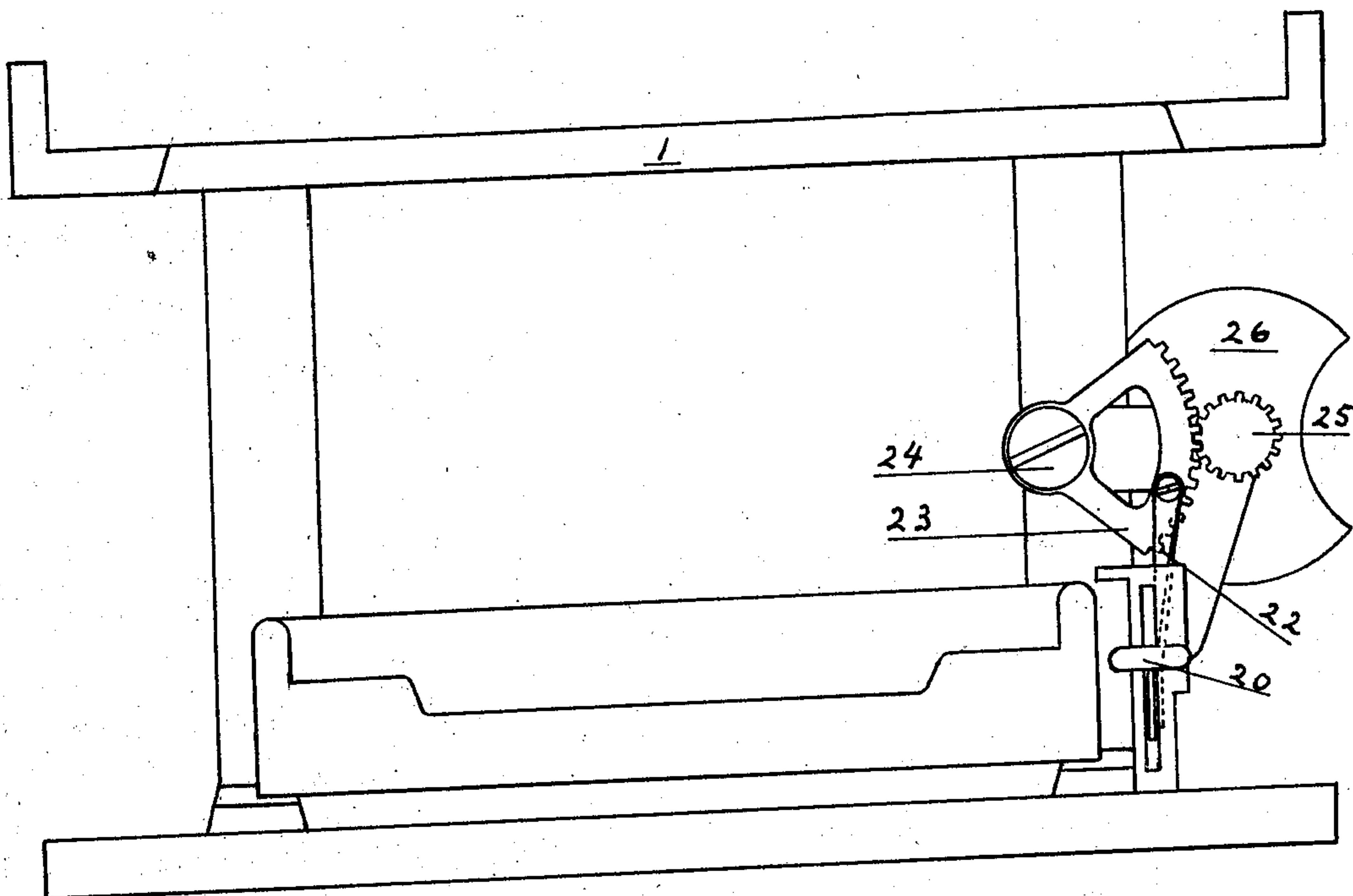


FIG. 3.

WITNESSES:

William H. McDonald

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UNITED STATES PATENT OFFICE.

WILLIAM KRAFT, OF BALTIMORE, MARYLAND.

TYPE-WRITING MACHINE.

No. 885,057.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed August 6, 1907. Serial No. 387,258.

To all whom it may concern:

Be it known that I, WILLIAM KRAFT, a citizen of the United States, residing at Baltimore city, in the State of Maryland, have invented a new and useful Type-Writing Machine, of which the following is a specification.

My invention relates to improvements in typewriting machines, especially that class which have circular platens and reciprocating carriages carrying the same: and the objects of my improvements are, first, to operate the platen and feed the paper thereon line by line by means of a key or bar in or adjacent to the key-board; second, to operate the carriage in its reciprocating motion, bringing it back to the beginning of a line by means of a key or bar in or adjacent to the key-board; and, third, the operation of the above two mentioned movements by means of one and the same key or bar in or adjacent to the key-board. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a rear view of a typewriting machine, showing only such parts of the machine as are necessary to show the connection and working of my invention therewith; Fig. 2 is an end view taken at right angles to the view shown in Fig. 1. Fig. 3 is a front view of a part of the typewriting machine showing such parts of the machine as are necessary to show the working of the operating key for reciprocating the carriage.

Similar numerals refer to similar parts throughout the several views.

1 is the main frame.

2 is the platen.

3 is the carriage.

4 is the ratchet wheel secured to the end of the platen.

5 is the platen feeding lever, which operates ratchet wheel 4 by means of pawl 6, is fulcrumed at 7, has handle 8 and extension 9.

10 is the wheel lever which is fulcrumed at 11, and upon one end of which is journaled wheel 12; the other end of said lever 10 being slotted at 13. Pin 14 is secured to extension 9 of feeding lever 5, said pin operating in slot 13. On pin 14 is friction roller 15 to reduce the friction and wear to a minimum.

16 is an incline adjustably secured to rod 17 by means of sliding boss 18 and set-screw 19. The face of incline 16 is shaped to operate in wheel 12, the face of which wheel is shaped suitable to operate on incline 16.

20 is the operating lever fulcrumed at 21.

22 is a link connecting operating lever 20 with quadrant gear 23 which quadrant gear 23 is journaled at 24. Quadrant gear 23 operates pinion 25. Pinion 25 is secured to shaft 31 and operates the same. On shaft 31 is secured operating wheel 26. Operating wheel has secured thereon one end of a flexible band or chain 27 which winds thereon and the other end of which is secured to the carriage. Shaft 31 is journaled in bearings 28 and 29, and 30 is a band adjusted by a spring in the same way.

The operation of my invention is as follows: The carriage is operated in the usual way by means of an escapement action not shown operated by the keys and a spring tending to keep band 30 in tension. When it is desired to replace the carriage to the beginning of a line operating lever 20 is depressed which thereby operates quadrant gear 23, pinion 25, operating wheel 26, thus winding flexible band 27 thereon, thereby hauling the carriage against the tension in band 30. At a predetermined point where it is desired to end the line of writing and feed the platen for a new line, incline 16 is located on rod 17 and secured there by a set-screw, catch, or some similar means. As the carriage is brought back to initial position for writing, wheel 12 encounters incline 16 and rises thereon, thus depressing the other end of wheel lever 10 which carries therewith pin 14 and extension 9 attached thereto, thus feeding the platen; the number of spaces fed being predetermined by the amplitude of movement allowed feeding lever 5. As the carriage is fed forward, wheel 12 descends on incline 16, thus allowing feeding lever 5 to recover itself to initial position.

What I claim as my invention, and desire to secure by Letters Patent is—

In a typewriting machine, the combination of a carriage, a key, connections from said key to said carriage by which the carriage is given a return movement upon de-

pression of the key, a platen carried by said carriage, a ratchet upon said platen, a line spacing lever engaging said ratchet, mechanism operatively connected with said line spacing lever, and an inclined member adjustably mounted upon the machine frame which engages said mechanism near the end

of the return movement of the carriage to rotate the platen, substantially as described.

WILLIAM KRAFT.

Witnesses:

CHAS. S. READ,
RAYMOND H. WHITING.