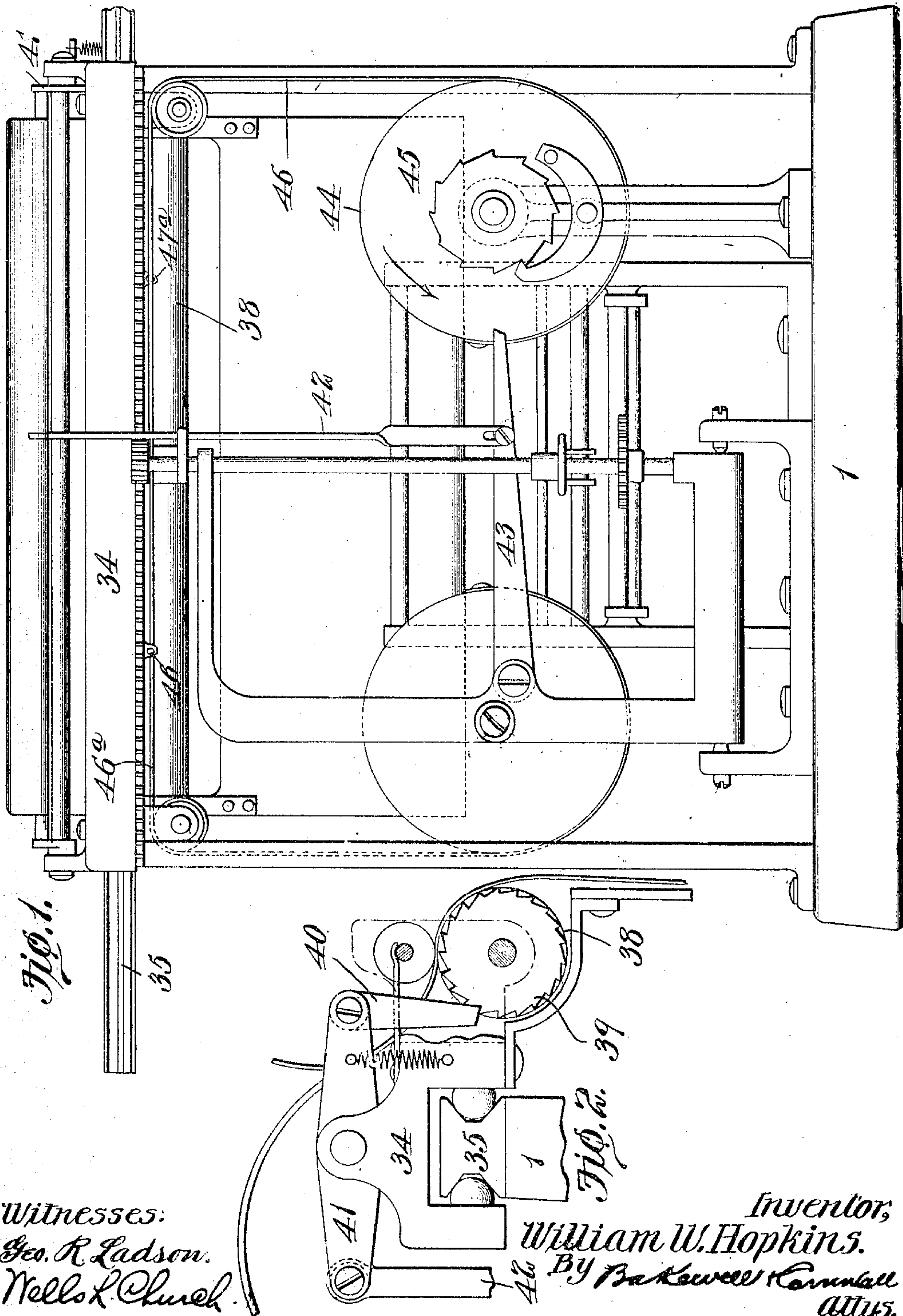


No. 860,298.

PATENTED JULY 16, 1907.

W. W. HOPKINS.
LINE SPACING MECHANISM.

APPLICATION FILED DEC. 4, 1906.



Witnesses:
Geo. R. Ladson.
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UNITED STATES PATENT OFFICE.

WILLIAM W. HOPKINS, OF ST. LOUIS, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO
THE MOON-HOPKINS BILLING MACHINE COMPANY, OF ST. LOUIS, MISSOURI, A CORPO-
RATION OF MISSOURI.

LINE-SPACING MECHANISM.

No. 860,298.

Specification of Letters Patent.

Patented July 16, 1907.

Original application filed August 15, 1906, Serial No. 330,726. Divided and this application filed December 4, 1906. Serial No. 346,272.

To all whom it may concern:

Be it known that I, WILLIAM W. HOPKINS, a citizen
of the United States, residing at St. Louis, Missouri,
have invented a certain new and useful Improvement
5 in Line-Spacing Mechanism for Type-Writing Ma-
chines, of which the following is a full, clear, and ex-
act description, such as will enable others skilled in the
art to which it appertains to make and use the same,
reference being had to the accompanying drawings,
10 forming part of this specification, in which—

Figure 1 is a rear elevation of a typewriting machine
provided with a line-spacing mechanism constructed
in accordance with my invention; and Fig. 2 is a de-
tail end view of the paper feeding roller and its actu-
15 ating mechanism.

This invention relates to typewriting machines and
particularly to the line-spacing mechanism of such
machines.

The object of my invention is to provide a line-spac-
20 ing mechanism of simple construction which will be
operated automatically when the paper carriage reaches
a certain position in its lateral movement.

This present application is a divisional of my pend-
ing application Serial No. 330,726, filed August 15,
25 1906, which shows and describes the complete type-
writing machine of which the line-spacing mechanism
herein claimed forms a part.

Referring to the drawings which represent the pre-
ferred form of my invention, I designate the frame of
30 the machine provided with a track 35 upon which the
paper carriage 34 travels.

38 is a rubber-faced roller, on one end of which is
arranged a ratchet 39.

40 is a paper feed pawl cooperating with ratchet 39

and mounted on the end of lever 41 upon whose oppo- 35
site end is a link 42, which link is shown in Fig. 1 as
pivotally connected to an arm 43 whose end extends
into the path of movement of a pin 44 on the drum 45
containing the motor spring for the carriage. A cable
46 extends from this spring drum 45 over sheaves and 40
is connected to the carriage at the point 47. Another
cable 46^a is connected to a supplemental spring drum
48, and to the carriage at the point 47^a. Whenever the
spring drum 45, rotating in the direction of the arrow
in Fig. 1, engages the arm 43 by means of pin 44, the 45
paper feed pawl will be operated so as to line-space the
paper. Pin 44 is so positioned on drum 45 that it
strikes the arm 43 as the paper carriage is moved to the
right to start a new line.

Having thus described my invention, what I claim 50
as new and desire to secure by Letters Patent is:

1. In a typewriting machine, the combination with
paper feeding rolls, a ratchet on one of said rolls, a paper
feeding pawl cooperating with said ratchet, and a pro-
jection on the drum containing the motor spring of the 55
carriage for operating said paper feeding pawl; substan-
tially as described.

2. In a typewriting machine, the combination with a
laterally movable paper carriage, a paper feeding roll
therein having a ratchet at one end thereof, a pawl co- 60
operating with said ratchet, a spring-actuated drum for
moving the carriage laterally, a pin on said drum, and a
lever in the path of said pin, said lever being connected
to said paper feeding pawl; substantially as described.

In testimony whereof I hereunto affix my signature in 65
the presence of two witnesses, this twenty seventh day of
November 1906.

WILLIAM W. HOPKINS.

Witnesses:

WELLS L. CHURCH,
GEORGE BAKEWELL