

No. 766,949.

PATENTED AUG. 9, 1904.

J. HEDLUND.  
TYPE WRITER.

APPLICATION FILED MAR. 14, 1903.

NO MODEL.

FIG. 1.

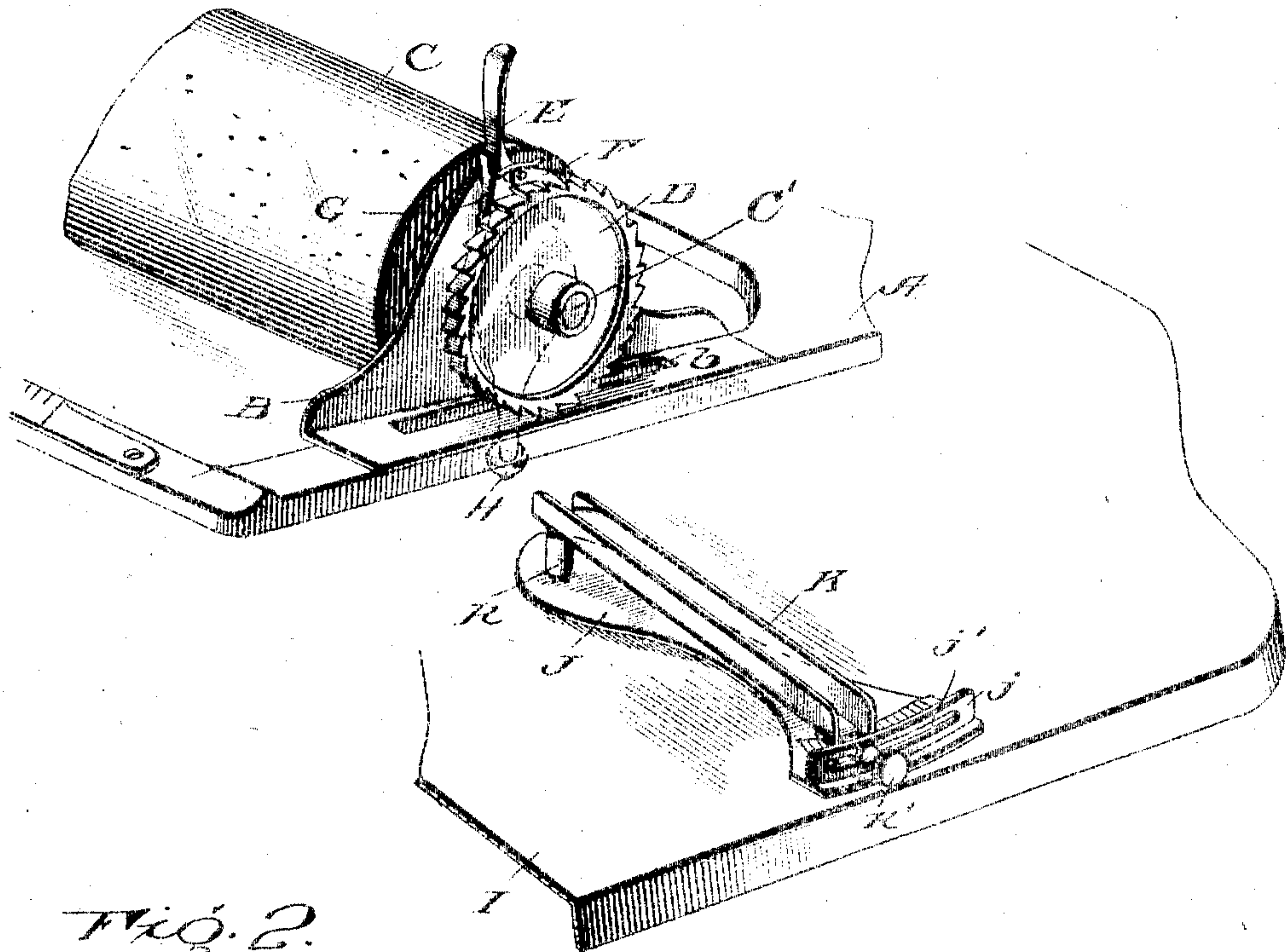


FIG. 2.

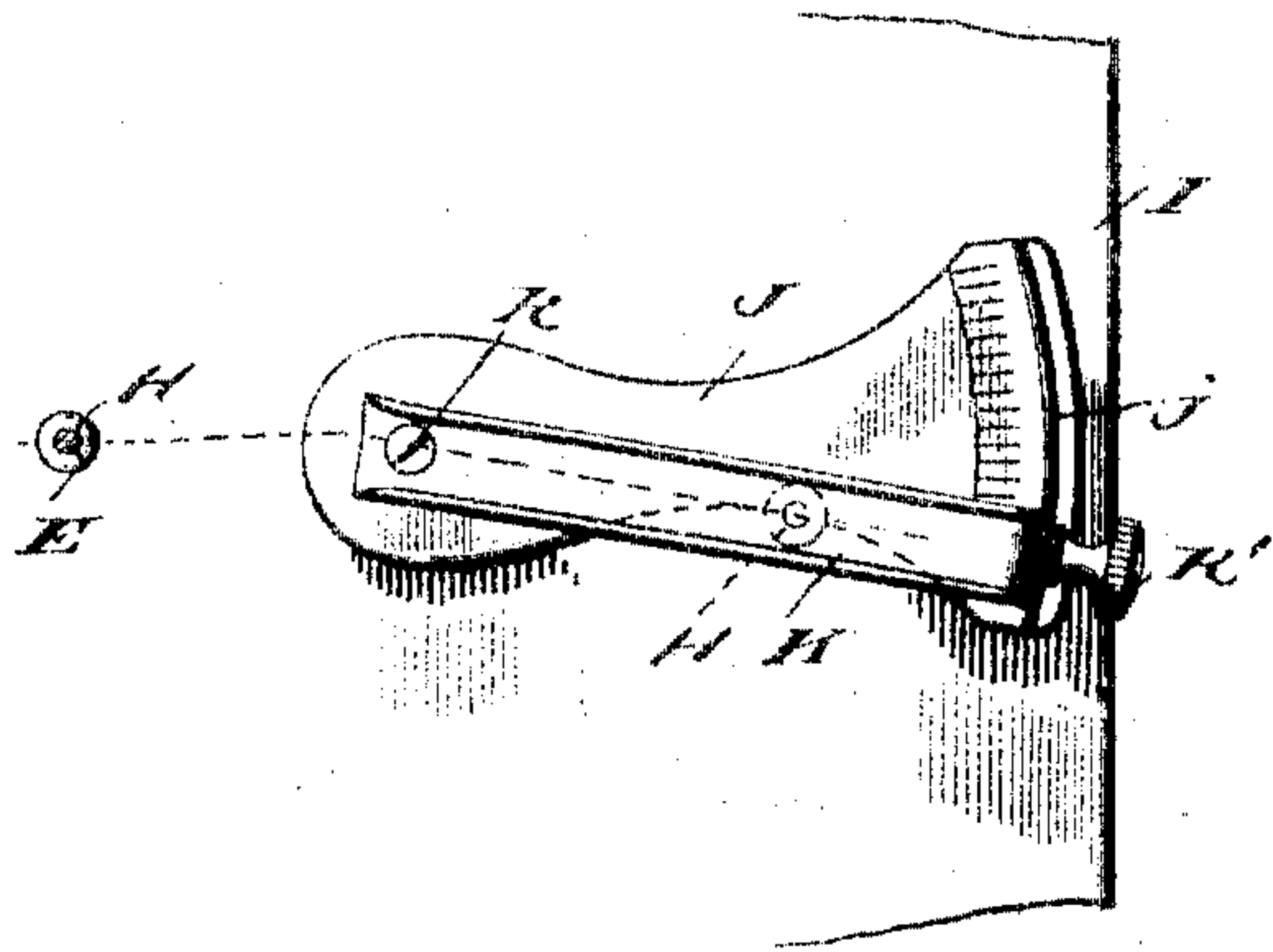
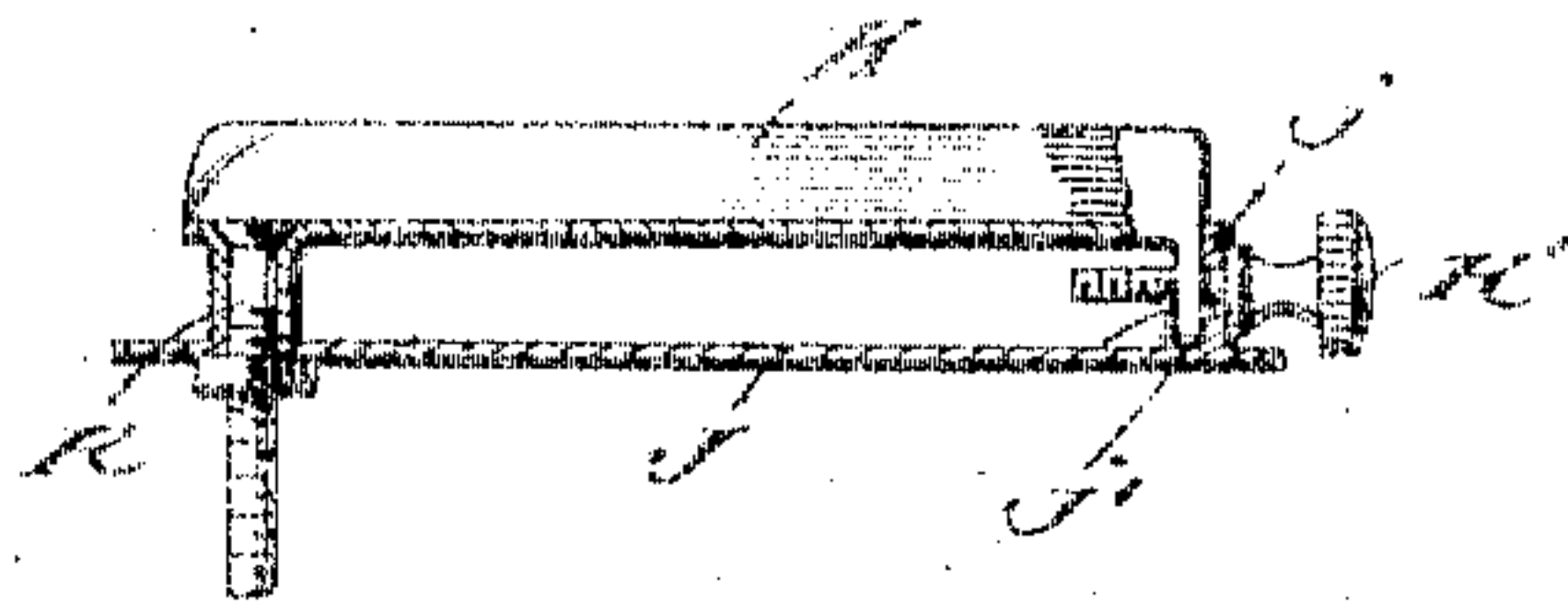


FIG. 3.



Witnesses

*W. Williams*  
*J. A. Richmond*

By

Inventor  
*John Hedlund*

*G. E. Masson*

Attorney



# UNITED STATES PATENT OFFICE.

JOHN HEDLUND, OF ST. CLOUD, MINNESOTA.

## TYPE-WRITER.

SPECIFICATION forming part of Letters Patent No. 766,949, dated August 9, 1904.

Application filed March 14, 1903. Serial No. 147,788. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN HEDLUND, a citizen of the United States, residing at St. Cloud, in the county of Stearns and State of Minnesota, have invented certain new and useful Improvements in Type-Writers, of which the following is a specification.

My invention relates more particularly to the line-spacing mechanism of type-writing machines; and it aims to utilize the return or movement of the carriage from left to right to automatically space the platen or paper-cylinder. It also aims to provide means whereby the degree of movement of the platen may be varied to conform to the spacing desired.

To these and other ends the invention consists in the improvements hereinafter described and claimed.

The nature, characteristic features, and scope of the invention will be more clearly understood from the following detailed description, taken in connection with the accompanying drawings, forming a part hereof, wherein—

Figure 1 is a perspective view of line-spacing mechanism embodying features of the invention. Fig. 2 is a top view of the guide, and Fig. 3 is a sectional view of the same.

Referring to the drawings, A represents the paper-cylinder carriage provided with a bracket B, which affords a bearing for one end of the paper-cylinder or platen C. The axle of said cylinder carries the usual ratchet-wheel D, and between said wheel and the bracket a double-armed lever E is also mounted in relation to the axle C'. The upper part or arm of said lever carries a pawl F, that is held in engagement with the teeth of the ratchet-wheel through the medium of a spring G. The other arm of said lever penetrates a slot or opening b of the bracket and is provided with a small roller H.

The main frame I of the machine is served with a segmental plate J, suitably calibrated and provided with an upturned flange j, having a slot j'.

K represents a guide in the form of a U or trough shaped member that is pivoted at one end of said segmental plate, as at k, and is served at its other end with a set-screw k', which passes through the slot j' and serves to secure the guide in any position to which it may be adjusted. It will be understood that upon the return of the carriage the lower end of the lever E enters the guide K and following the angle to which the same is adjusted causes the platen to be rotated more or less according to the degree of spacing that is desired.

It will be obvious to those skilled in the art to which the invention relates that modifications may be made in details without departing from the spirit and scope of the same. Hence I do not limit myself to the precise construction and arrangement of parts illustrated in the accompanying drawings and hereinabove referred to; but,

Having described the nature and objects of the invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the main frame of the machine, the paper-cylinder carriage, the paper-cylinder, its ratchet-wheel, a double-armed lever mounted in relation to the paper-cylinder whereof one arm is provided with a pawl which engages said ratchet-wheel, and whereof the other arm carries a friction-roller, a plate secured to the main frame having a slotted segmental flange, a longitudinally-ranging trough-shaped guide for said roller pivoted to the main frame and adjustable laterally in respect to the line of axis of the paper-cylinder, and a set-screw passing through the slot and engaging the guide to secure it in its adjusted position, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN HEDLUND.

Witnesses:

HUBERT HANSEN,

ANDREW C. ROBERTSON.