

No. 629,717.

Patented July 25, 1899.

E. L. FEARING.
RACK BAR FOR TYPE WRITERS.

(Application filed June 17, 1898.)

(No Model.)

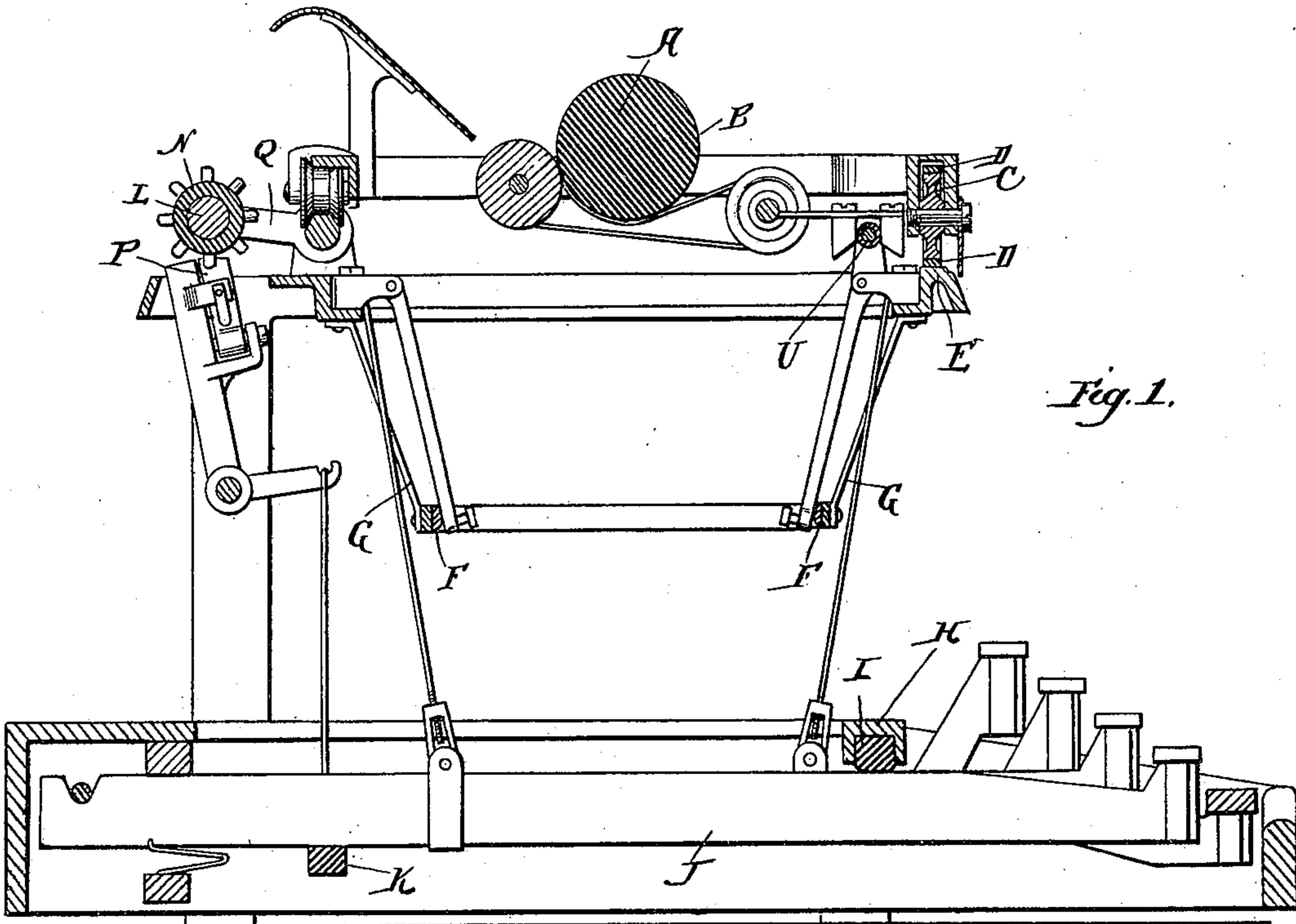


Fig. 1.

Fig. 2.

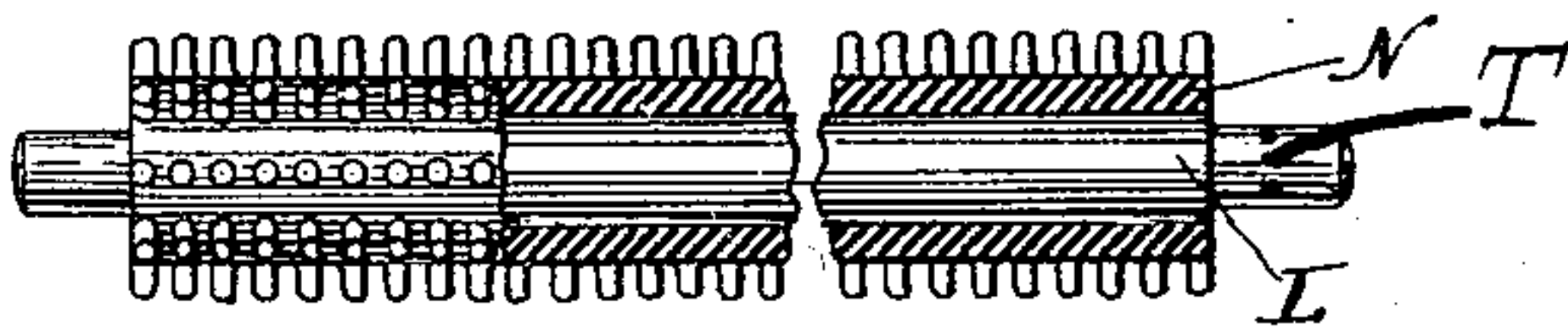


Fig. 3.

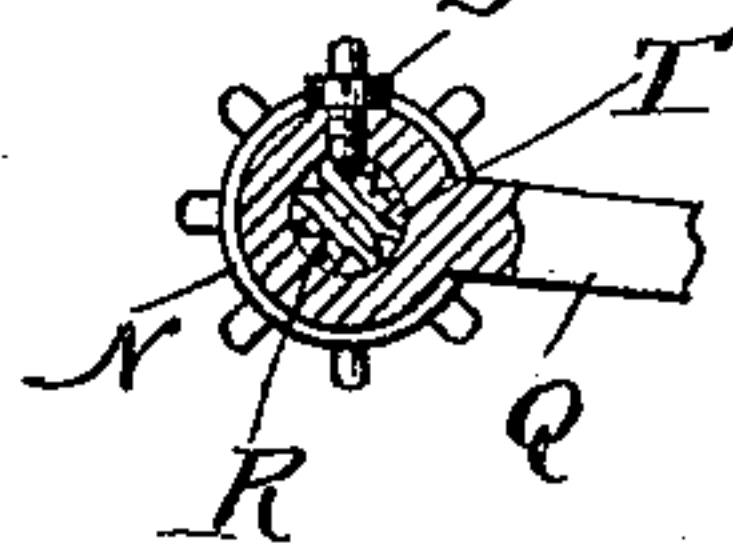
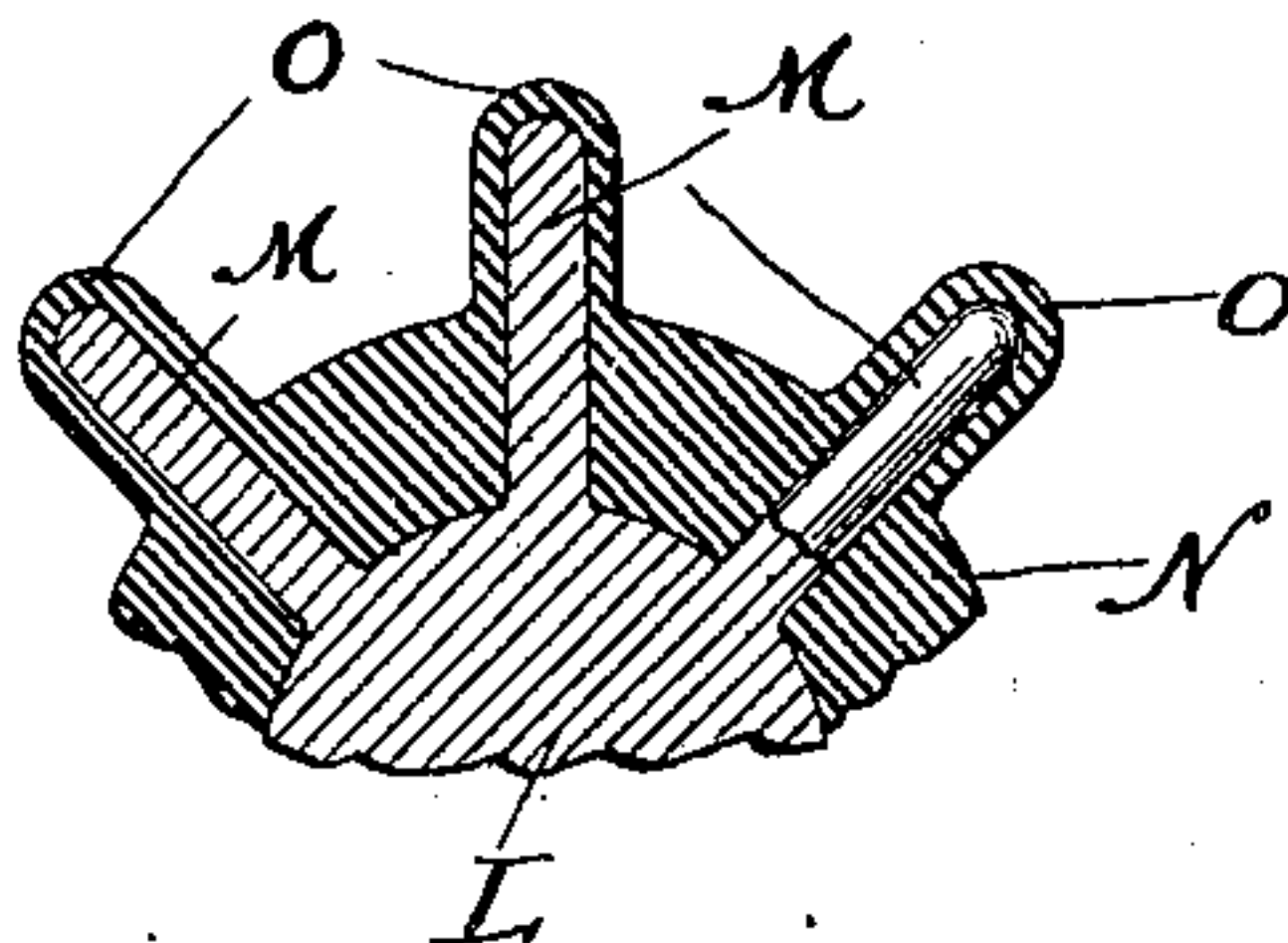


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDNA L. FEARING, OF OAK PARK, ILLINOIS.

RACK-BAR FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 629,717, dated July 25, 1899.

Application filed June 17, 1898; Serial No. 683,699. (No model.)

To all whom it may concern:

Be it known that I, EDNA L. FEARING, a citizen of the United States, residing at Oak Park, State of Illinois, have invented a certain new and useful Improvement in Noiseless Rolls for Type-Writers, of which the following is a specification.

My invention relates to a new and useful improvement in noiseless type-writers, and has for its object to provide a rack-bar for the feed mechanism of the machine having several series of teeth, each series of which may be brought into action when desired, thus increasing the life of this portion of the machine.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a section of a type-writer, showing my improvements embodied therein; Fig. 2, a view, partly in section, showing my improved rack-bar; Fig. 3, a cross-section of the rack-bar through a support of same, showing the set-screw for adjusting the rack-bar to its several positions; and Fig. 4, an enlarged section of a portion of the rack-bar, showing the manner of securing the teeth therein and covering the same with a sound-absorbing material.

In connection with my invention I cover the platen A with a sound-absorbing material B, such as rubber, so that when the type are thrust thereagainst the usual disagreeable clicking sound will not be emitted. Likewise the carriage-wheel C is provided with a rubber tire D in order that when it is traveling upon the track E it will be noiseless in its action.

A buffer-ring F is arranged within the basket G, so that when the plate-bars return to their normal position they come in contact

with this buffer-ring, and the sound of such contact will of course be deadened.

The stock-bar H has secured to its under side a rubber strip I, against which the key-rubbers J bear when in their normally-elevated position, and the universal bar K is provided and may be of any suitable material.

L represents the rack-bar, which is of cylindrical shape, having the teeth M projecting radially therefrom, and around this bar is arranged a rubber covering N, which is provided with the hollow projections O, fitting over the teeth, and, as is obvious, this will protect the teeth from direct contact with the escapement-pawl P, and as much of the noise of a type-writing machine is caused by the mechanism thereof to that extent the machine will be noiseless. The arms Q, in which the rack-bar is journaled by its spindles R, are provided with set-screws S, the points of which enter into engagement with the indentations T in the shaft, and thus hold any one of the series of teeth in active position, while should at any time it be desired to so adjust the rack-bar as to bring a different set of teeth into activity this may be readily accomplished by backing off the set-screws and revolving the rack-bar sufficiently to bring the desired set of teeth into position and then again resetting the set-screws to hold the teeth in this adjustment. This is a very important feature of my improvement, as it avoids the necessity of frequently repairing this portion of a type-writing machine, since eight or more sets of teeth will be carried by each machine and at all times ready for use by simple adjustment. The shifting rod U may also be covered with rubber or like material, and any other portion of the machine which has a tendency to create a noise.

Of course I do not wish to limit myself to the use of rubber as a covering for the rack-bar and its teeth, since it may be found advantageous to use other sound-absorbing material.

Having thus fully described my invention, what I claim as new and useful is—

In combination, a cylindrical rack-bar, hav-

ing a series of teeth, circular in cross-section,
a rubber casing for the rack-bar and teeth,
arms in which spindles of the rack-bar are
 journaled, said spindles having indentations,
5 and a set-screw in the arm entering the in-
 dentations, substantially as described.

In testimony whereof I have hereunto af-

fixed my signature in the presence of two sub-
scribing witnesses.

EDNA L. FEARING.

Witnesses:

SAMUEL KLEIN,
ARNOLD J. MARKS.