

(No Model.)

M. C. MENGIS.
ROLL FOR TYPE WRITERS.

No. 589,663.

Patented Sept. 7, 1897.

Fig. 2.

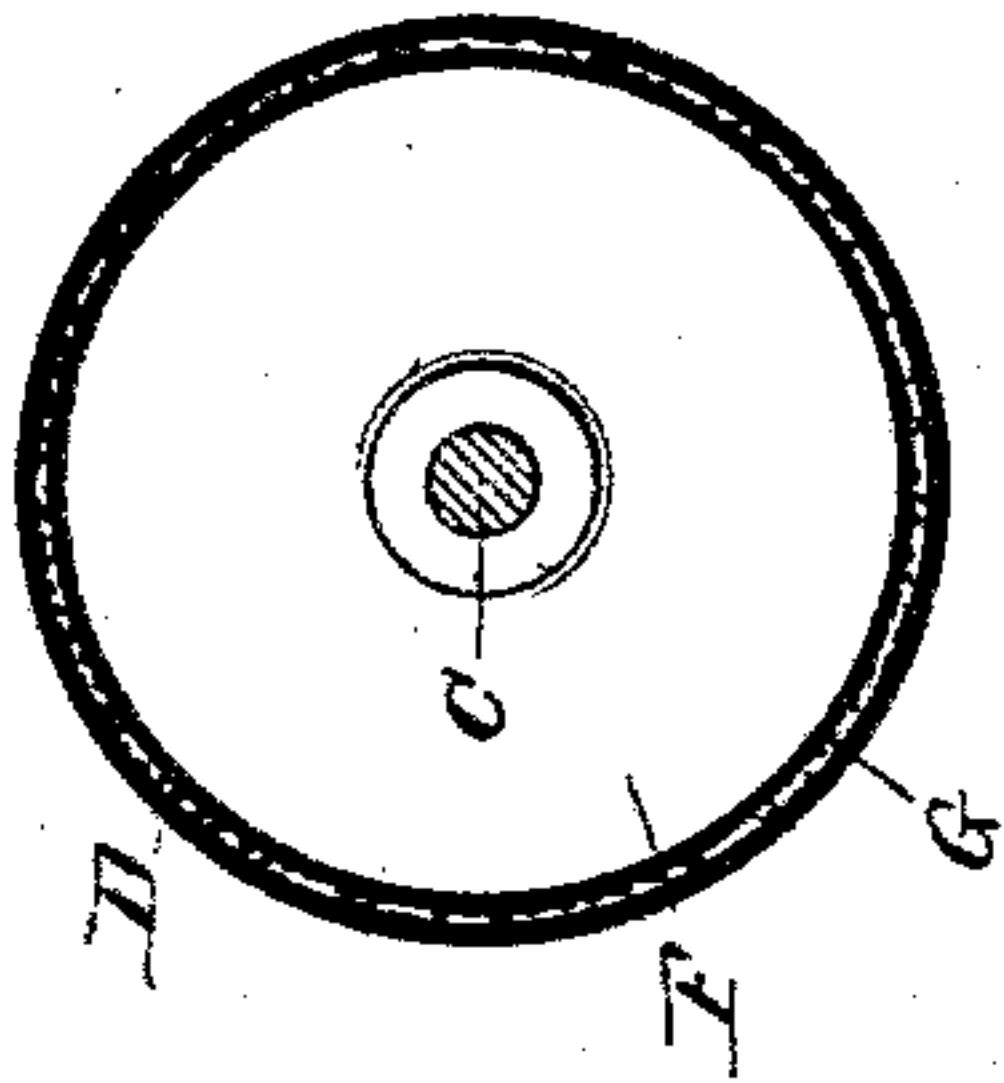


Fig. 4.

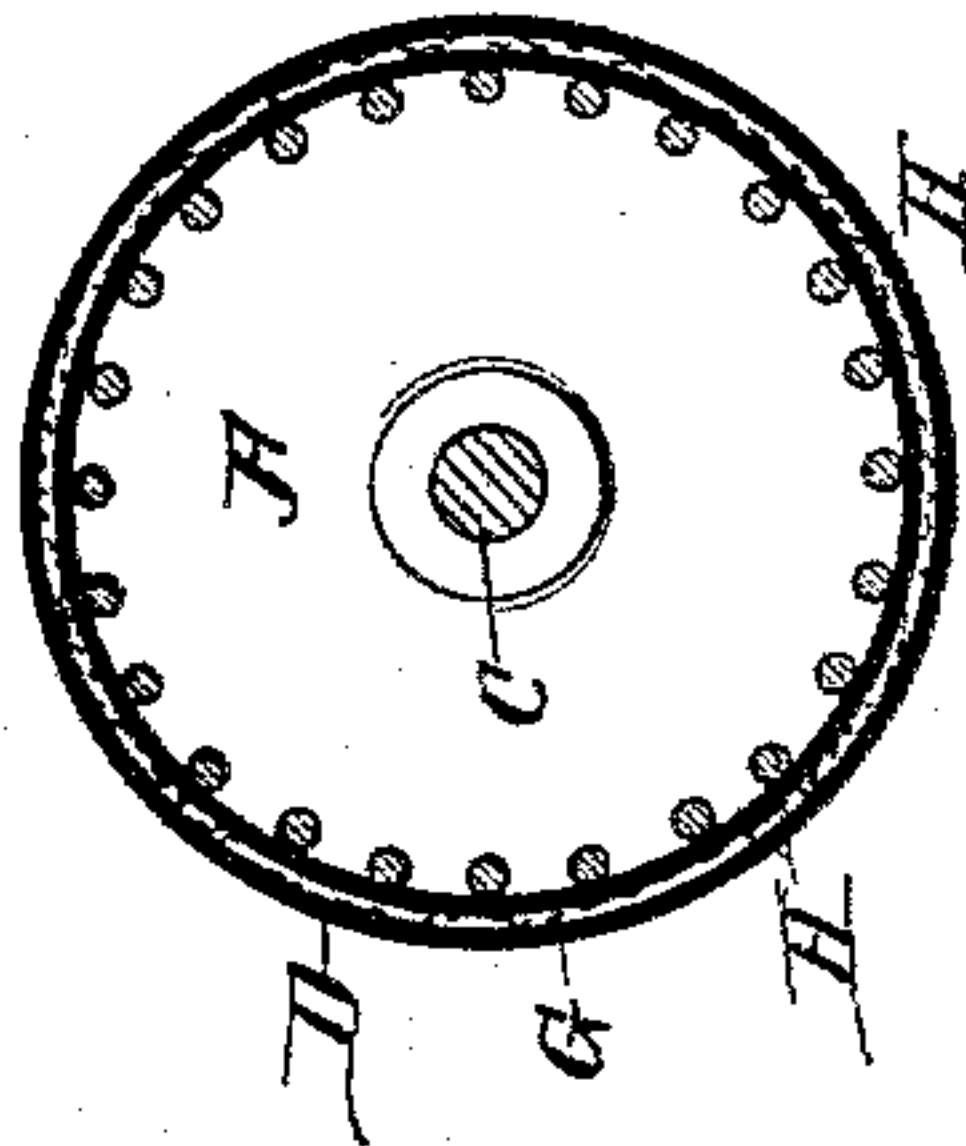


Fig. 1.

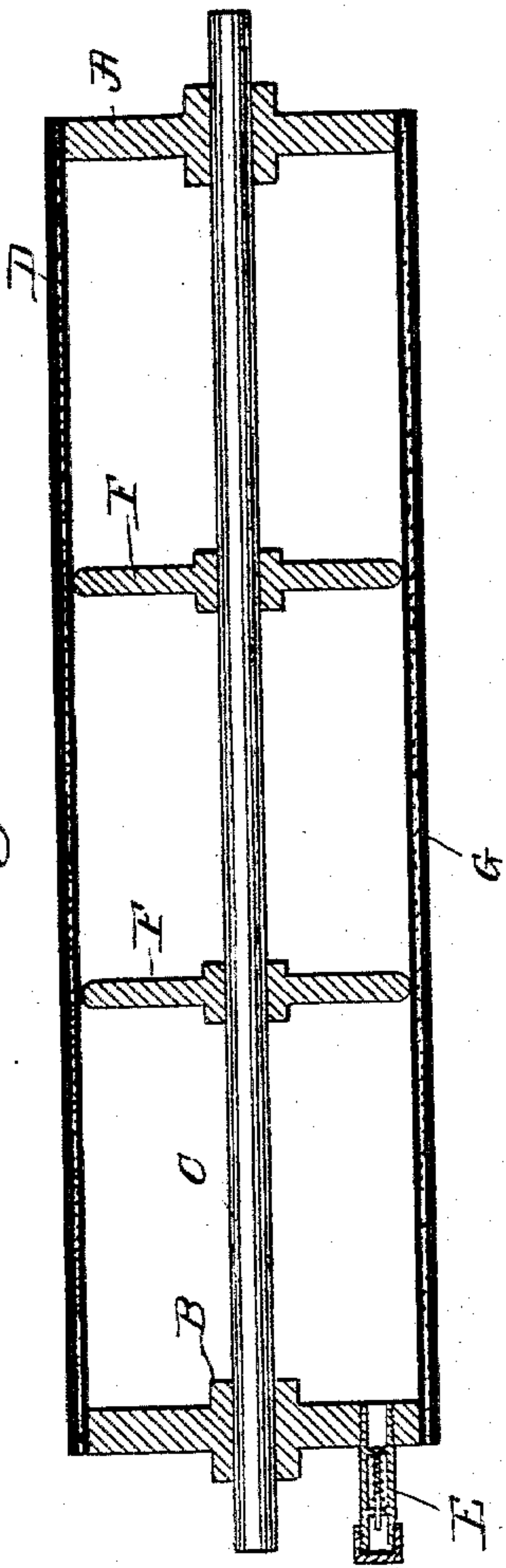
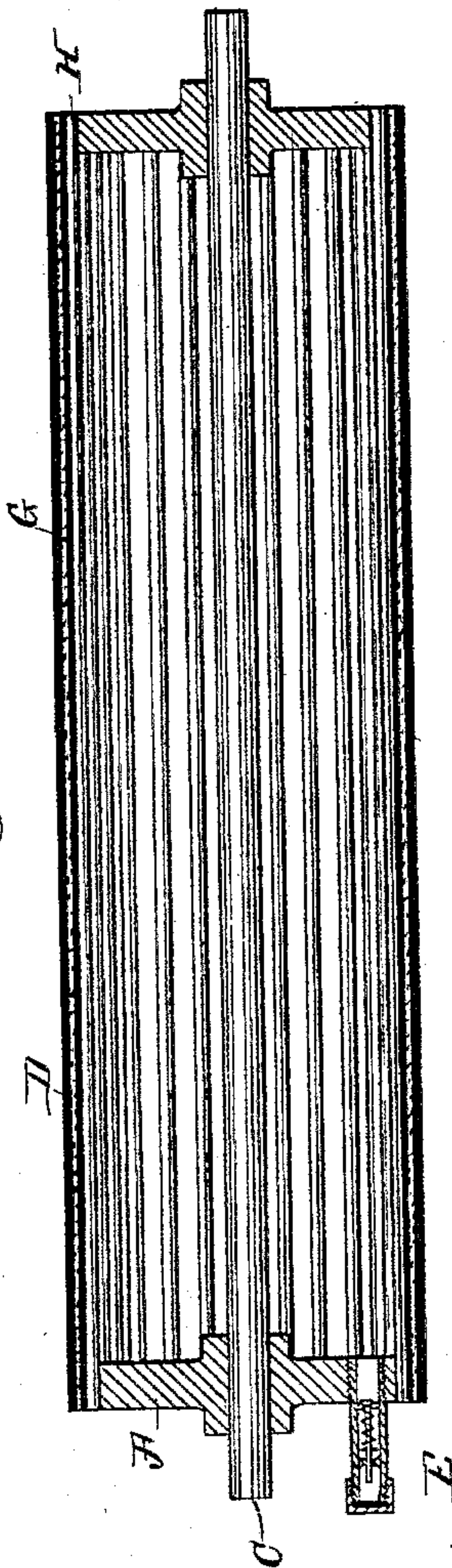


Fig. 3.



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ROLL FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 589,663, dated September 7, 1897.

Application filed July 15, 1896. Serial No. 599,250. (No model.)

To all whom it may concern:

Be it known that I, MORRIS C. MENGIS, a citizen of the United States, residing at Sheepshead Bay, in the county of Kings and State of New York, have invented certain new and useful Improvements in Rolls for Type-Writers and the Like, of which the following is a specification.

My invention relates to a new and useful improvement in noiseless type-writer rolls, and has for its object to provide a device of this description by the use of which the disagreeable clicking sound of a type-writer occasioned by the striking of the keys thereof against the roll upon which the paper is placed will be obviated, and which may be varied in firmness so as to suit the taste of the operator.

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

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction and operation in detail, referring by letter to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a longitudinal section of a roll made in accordance with my improvement; Fig. 2, a cross-section thereof; Fig. 3, a slightly-modified form of a roll, and Fig. 4 a cross-section of this modification.

In carrying out my invention as embodied in Figs. 1 and 2 I provide heads A, circular in form and of a diameter sufficient to produce the desired roll, and these heads are provided with hubs B, by which they are secured upon the spindle C, and, as is well understood, this spindle is mounted within the carriage of the type-writer and has the suitable spacing mechanism attached thereto. Secured to the peripheries of the heads A is a cylindrical tube D, of suitable sound-non-conducting material, such as rubber or the like, thus forming the completed roll, having a hollow interior, which latter is filled with air or other suitable fluid through the valve E, which latter may be of any ordinary construction. In order that the cylindrical roll may not sag near its center, supporting-disks F may be provided and secured in place upon the spin-

dle at suitable distances apart, as clearly shown in Fig. 1.

In practice it will be found that the casing will serve its purpose better when provided with a stiffening material G, such as canvas or the like, thus preventing the bulging of said casing when the proper air-pressure is created therein.

It is obvious that a roll thus constructed and inflated will deaden the sound of the keys striking thereagainst as well as producing a better print upon the paper in that the surface of the casing has a certain amount of give, and this elasticity may be regulated by the pressure within the roll, which may be varied to suit the fancy of the operator.

The modification shown in Figs. 3 and 4 contemplate the supporting of the casing throughout its length by the rods H, and as in many cases a spotted roll is preferred this embodiment of my invention will produce such a spotted roll, as there will be a tendency for the casing to assume a straight line in cross-section between each of the rods, which line may be more or less varied by the pressure created within the roll, as will be readily understood.

Other slight modifications might be made without departing from the spirit of my invention.

From this it will be seen that all of the disagreeable features of the rolls now in use will be overcome and a roll provided, the elasticity of which may be varied for different kinds of work and to suit the fancy of the operator.

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

1. A roll for type-writers consisting of a spindle, heads secured near the ends of the spindle, disks of the same diameter as the heads secured at intervals along the spindle, so as to leave spaces between each other, a cylindrical cover secured over the disks and heads, said cover consisting of layers of rubber with a layer of canvas interposed, the layer struck by the type being directly supported by the disks, and a valve leading through one of the heads to the interior of the casing, and for the purpose described.

2. A roll for type-writing machines consisting of a spindle, heads secured near the ends of the spindle, a cylindrical cover secured

around the heads whereby a hollow cylinder
is formed, said cover consisting of layers of
rubber with a layer of canvas interposed, a
valve leading through one of the heads into
5 the cylinder and means for directly support-
ing the layer struck by the type to prevent
sagging near the center, substantially as de-
scribed.

In testimony whereof I have hereunto af-
fixed my signature in the presence of two sub-
scribing witnesses.

MORRIS C. MENGIS.

Witnesses:

S. S. WILLIAMSON,

M. B. CAMPBELL.