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A. G. F. KUROWSKI

TYPEWRITING MACHINE

Filed Oct. 27, 1922

Fig. 1.

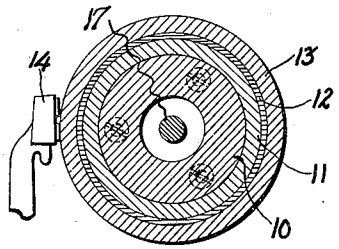
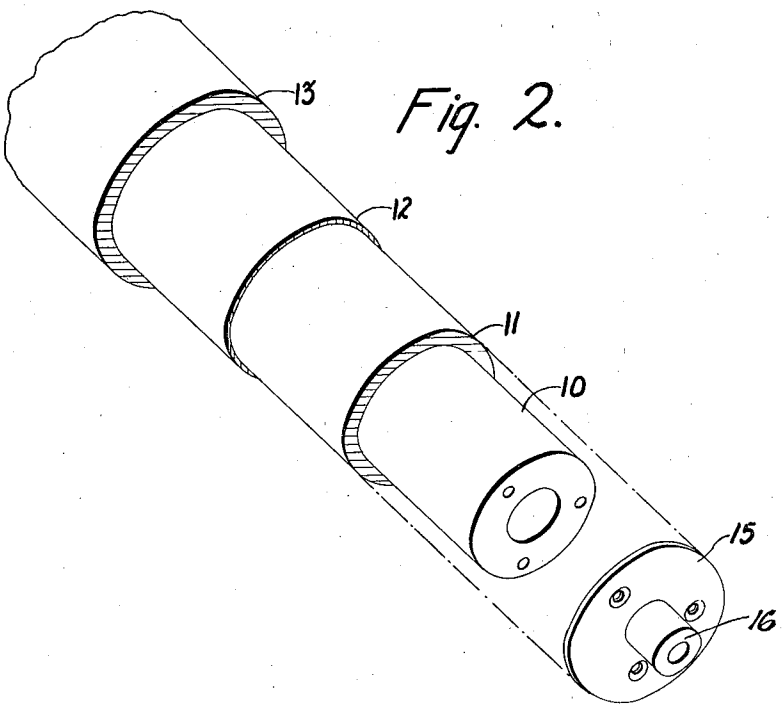


Fig. 2.



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UNITED STATES PATENT OFFICE.

ALFRED G. F. KUROWSKI, OF BROOKLYN, NEW YORK, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPEWRITING MACHINE.

Application filed October 27, 1922. Serial No. 597,264.

To all whom it may concern:

Be it known that I, ALFRED G. F. KUROWSKI, a citizen of the United States, residing in Brooklyn Borough, in the county of Kings, city and State of New York, have invented certain new and useful Improvements in Typewriting Machines, of which the following is a specification.

The present invention relates to platens for typewriting machines, and more particularly to platens of the so-called "noiseless" class.

It is well known that if a platen be soft, or if the type-stroke be slow, the noise of typewriting will be less than where there is a sharp type-stroke against a hard platen. Such so-called noiselessness, even where hardening of the platen with age does not take place, has heretofore been obtained at the sacrifice of quality in the printing, particularly as to the printing on the under sheets of manifolds.

Heretofore, also, in an effort to deaden the noise of typewriting, while maintaining the desirable hard-rubber platen-facing, the hard-rubber facing has been insulated from the platen-core by an interior sleeve or base of soft rubber or other sound-deadening and insulating material. This expedient, while effective in deadening the sound, has not always been satisfactory, because the softer, interior rubber sleeve has lacked the rigidity necessary to prevent indentation, by the type, of the harder rubber facing, due to severe and often repeated type-blows at the same points on the platen.

An object of the invention is the production of a platen, which, in use, may be relatively noiseless, and which, nevertheless, will assure clearness of type-impressions through any desired manifolding of copy thereon, without being unduly susceptible to indentation by the type.

A further object of the invention is the provision of a relatively rigid base for the hard-rubber facing-sleeve of a platen in which such hard-rubber facing-sleeve is insulated from the core by a sleeve or layer of sound-deadening material, such, for instance, as soft rubber.

Other features and advantages will hereinafter appear.

In the accompanying drawings,

Figure 1 is a view, in cross-section, through the platen, showing a type at the printing point.

Figure 2 is a perspective view of a part of the platen, showing the several elements thereof broken away, one above the other, for a clearer exposition of the underlying parts.

The platen comprises a core 10, of wood or other suitable material. Over the core is fitted a sleeve 11, of soft rubber, in turn, embraced by a thin sleeve 12, of aluminum or other relatively rigid material, inelastic and non-fibrous which serves as a base for the usual outer sleeve of hard rubber or other facing-material 13, against which the types 14 strike. The several sleeves are preferably the full length of the core 10; but the heads 15, the smooth level inner sides of which are screwed to the core, are preferably of no greater diameter than the soft-rubber sleeve 11 and are provided with hubs 16 on their outer sides through which pass a shaft 17 extending axially through the core.

The sleeve 12, which serves as a base for the outer facing-sleeve 13, is of sufficient rigidity to prevent indentation of the sleeve 13, by the types in ordinary usage of the machine. The sleeve 11 acts as a sound-deadener and insulates the core and carriage-parts from sounds which would otherwise emanate from the sleeve 12. The heads 15 being of less diameter than the sleeve 12, sound-vibrations from the sleeve 12 cannot be transmitted through the heads to the platen-axle and machine parts.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. A platen for a typewriting machine, comprising a relatively hard facing-sleeve, an imperforate tubular base of inelastic material for the sleeve, and an interior filling of soft rubber for the tubular base.

2. A platen for a typewriting machine, comprising a relatively hard rubber facing-sleeve, a tubular base of inelastic, non fibrous material for the sleeve, a lining-sleeve of soft rubber for the tubular base, and a wooden core on which the latter sleeve is fitted.

3. A platen for a typewriting machine, comprising a facing-sleeve of hard rubber, a

tubular base of aluminum or similar material for the facing-sleeve, a wooden core, and an interior sleeve of soft rubber fitted on the core and supporting the tubular base.

4. A platen for a typewriting machine, comprising a relatively hard facing-sleeve, an imperforate, relatively rigid tubular base for the facing, an interior filling of sound-deadening material for the tubular base, and heads for the platen of lesser diameter than the tubular base, said heads having smooth inner surfaces.

5. A platen for a typewriting machine, comprising a relatively hard facing-sleeve, an imperforate, relatively rigid tubular base for the facing, a lining-sleeve of soft, sound-deadening material for the tubular base, a core on which the latter sleeve is fitted, heads for the platen secured to the core, said heads being of lesser diameter than the tubular base, and being level on one side with projecting hubs upon the other, and a shaft fixed in said hubs to extend axially through said core.

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Witnesses:
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