No. 767,696. PATENTED AUG. 16, 1904.

O. KAMPFE.

STROPPING MACHINE.

APPLICATION FILED DEC. 10, 1903.

NO MODEL.

Fig. 1

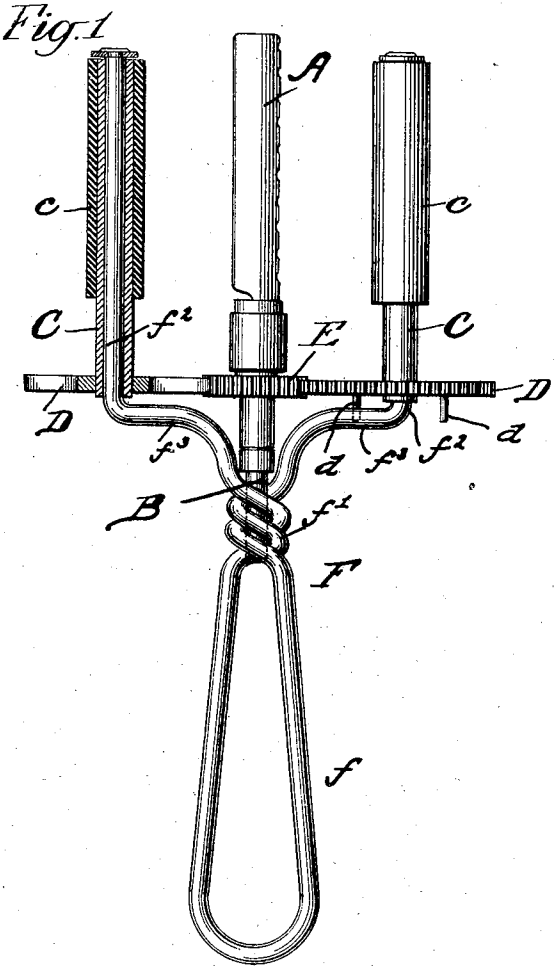


Fig. 2.

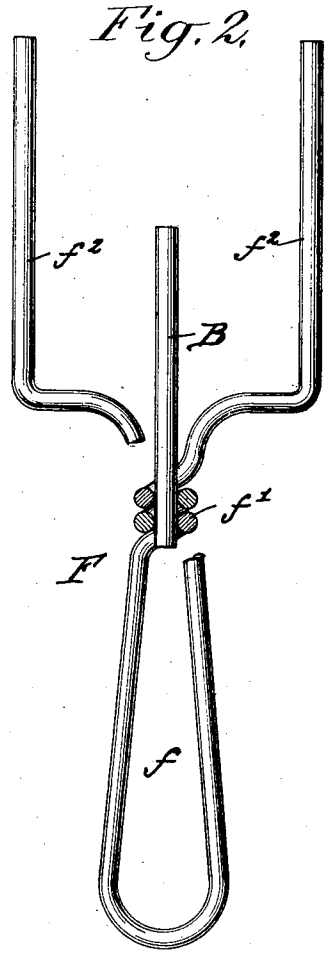
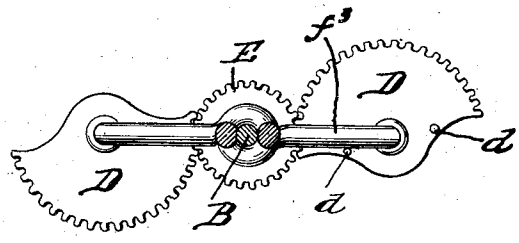


Fig. 3.



WITNESSES:

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No. 767,696. Patented August 16, 1904.

UNITED STATES PATENT OFFICE.

OTTO KAMPFE, OF NEW YORK, N. Y.

STROPPING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 767,696, dated August 16, 1904.

Application filed December 10, 1903. Serial No. 184,573. (No model.)

To all whom it may concern:

Be it known that I, OTTO KAMPFE, a citizen of the United States, residing in New York city, in the borough of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement Relating to Stropping-Machines, of which the following is a specification.

My invention relates to improvements in stropping-machines, and more especially to that class of stropping-machines adapted to receive blades which are detachable from their frames.

In the accompanying drawings, which illustrate a construction embodying my preferred form of invention, similar reference characters refer to corresponding parts.

Figure 1 is a front view, partially in elevation and partially in cross-section. Fig. 2 is another front view, partially in elevation and partially in cross-section, with certain parts removed. Fig. 3 is a rear view looking from the handle toward the frame.

The construction which I have illustrated as embodying my preferred form of invention relates to the general character of machines illustrated in the prior patent of F. R. Kampfe and O. Kampfe, No. 405,961, of June 25, 1889. My invention might well be applied, however, to the type of machine illustrated and described in the F. R. Kampfe and O. Kampfe patent, No. 725,449, of April 14, 1903, or, in fact, to any character or species of stropping-machine in which a blade-holder is rotatably connected to a handle.

Referring now to the drawings, A represents a blade-holder rotatably mounted, as on a shaft or inwardly-projecting rod B.

C represents friction-rollers, here shown as two in number and as covered with any suitable friction-covering *c*, such as hard rubber. Each of these rollers is shown as mounted to rotate and as being rigidly secured to a suitable gear D, each of which gears engages with an intermediate gear E, which is rigidly secured to the blade-holder A and mounted to rotate therewith.

F represents an integral device made of any suitable material, such as heavy wire, and which serves at once as a handle *f* and a supporting device or support for the rotatable blade-holder A. As shown, the said support comprises the series of coils *f'*, which are produced by bending the integral device F in the manner shown and so as to form a support for the end of the shaft B, which shaft carries the rotatable blade-holder A and the intermediate gear E.

As shown, the extremities of this integral device F are continued beyond the supports *f'* and then bent down and around and then outwardly to extend substantially parallel to the axles of the blade-holder shaft, thus forming two supports or shafts for the friction-rollers C, which are loosely mounted in any suitable manner to rotate. Evidently these supports or shafts *f²* carry and hold in proper position not only the friction-rolls C, but also their respective gears D D.

Of course a single friction-roller instead of two might be used, or the roller or rollers might be arranged at an angle to the blade-holder shaft, and a variety of changes might be made in the gearing or in the method of actuating the rotatable blade-holder. The exact arrangement of the integral device F and the various portions comprised therein may be varied to suit any conditions such as those above indicated; but preferably this integral device F will serve not only as a handle and as a support for the rotatable blade-holder, but also as a support for whatever actuating device may be used to rotate said holder. Thus any separate frame or independent supporting device will preferably be entirely done away with. Furthermore, as shown, the integral device F will preferably be so bent intermediate the support *f'* and each of the shafts *f²* (or at its portion *f³*) to coact with lugs *d*, arranged on one or both of the gears D (or otherwise suitably arranged) so as to limit the rotary movement of the blade-holder. Two lugs *d* may be arranged on one of the gears so as to contact with opposite sides of one of the portions *f³*, or one of the lugs may be arranged on each gear so as to contact with its contiguous portion *f³*.

What I claim as new is—

1. In a stropping-machine the combination with a rotatable blade-holder of actuating

means for causing the same to rotate; and an integral device comprising a handle, a support for said blade-holder, and a support for said actuating means.

2. In a stropping-machine the combination with a rotatable blade-holder of one or more friction devices; means connecting said friction device or devices and said blade-holder to actuate the latter; and an integral device comprising a handle, a support for said blade-holder, and a support for said friction device or devices and connecting means.

3. In a stropping-machine the combination with a rotatable blade-holder of two friction-rollers; gearing secured to rotate with each of said rollers; an intermediate gear secured to rotate with said blade-holder; and an integral device comprising a support for the shaft of said blade-holder, and shafts for each of said friction-rollers adapted to hold it and their gearing in operative position with regard to the blade-holder and its gear.

4. In a stropping-machine the combination with a rotatable blade-holder of actuating means for causing the same to rotate; and an integral device comprising a handle, a support for said blade-holder, a support for said actuating means, and a stop adapted to coact with one of the moving parts to limit the rotation of said blade-holder.

5. In a stropping-machine, the combination with a rotatable blade-holder of actuating means for causing the same to rotate, an integral device comprising an end portion adapted to serve as a support for said actuating means, a substantially central portion bent to form a handle, and a coiled portion intermediate said central and end portion adapted to form a support for said rotatable blade-holder.

6. In a stropping-machine, the combination with a rotatable blade-holder, of an integral device comprising a piece of wire bent at a substantially central part thereof to form a handle, and having its extremities bent to form coils adapted to act as a support for said rotatable blade-holder.

In testimony whereof I have signed my name in the presence of two subscribing witnesses.

OTTO KAMPFE.

Witnesses:
GEO. E. CRUSE,
M. J. MAC KAYE.