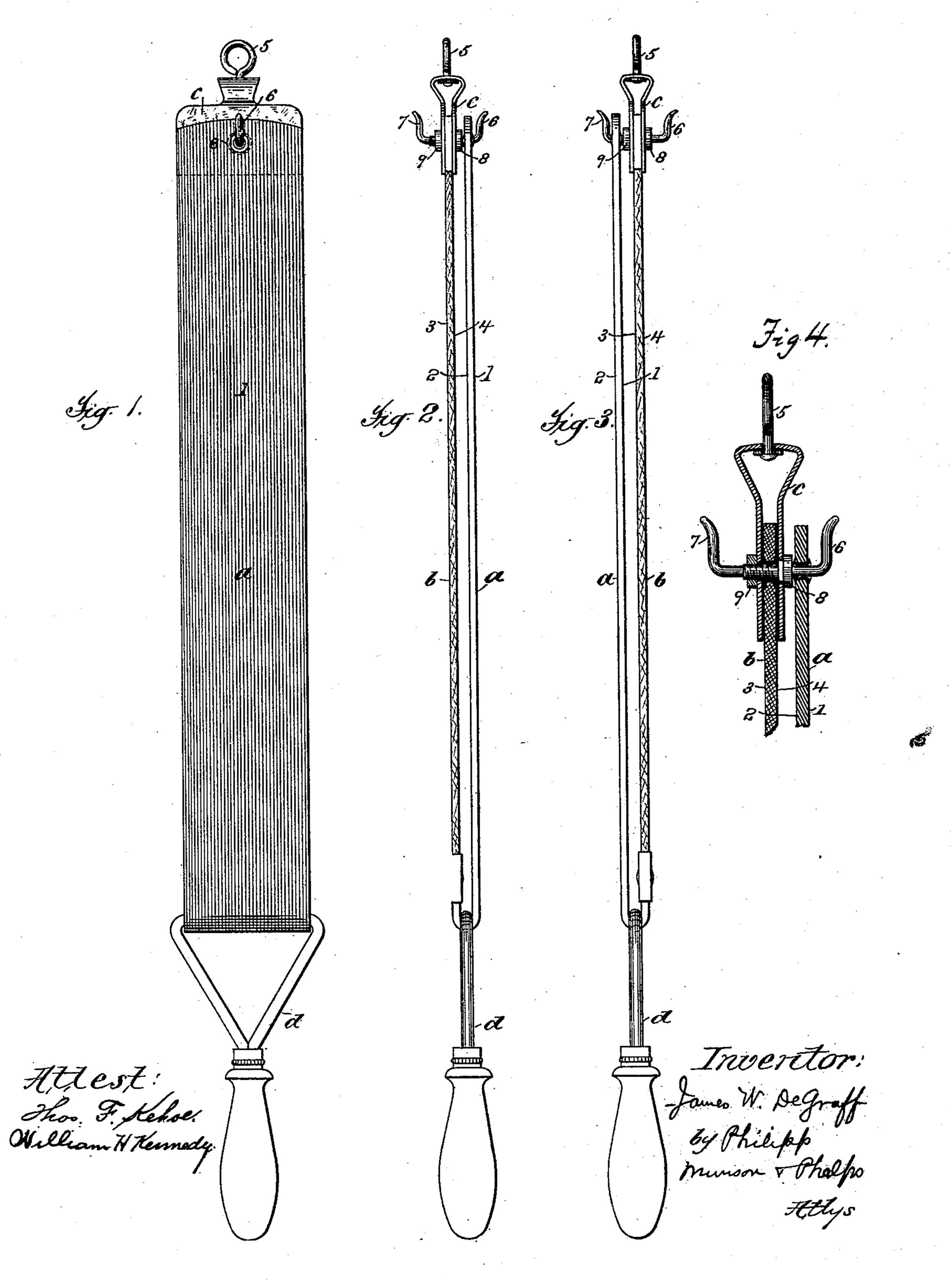
(No Model.)

J. W. DE GRAFF. RAZOR STROP.

No. 487,826.

Patented Dec. 13, 1892.



UNITED STATES PATENT OFFICE.

JAMES W. DE GRAFF, OF PLAINFIELD, NEW JERSEY, ASSIGNOR TO THE HOWARD MANUFACTURING COMPANY, OF MASSACHUSETTS.

RAZOR-STROP.

SPECIFICATION forming part of Letters Patent No. 487,826, dated December 13, 1892.

Application filed August 10, 1892. Serial No. 442,681. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. DE GRAFF, a citizen of the United States, residing at Plainfield, county of Union, and State of New Jer-5 sey, have invented certain new and useful Improvements in Razor-Strops, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to that class of flexible razor-strops adapted to be secured to a fixed support at one end and held by the hand at the other end while in use, and generally known to the trade as "swing-strops."

The special object of my invention is to provide an improved strop of this class in which more than two strop-surfaces are readily available for use, so that a larger variety of strop-surfaces are provided or the life of 20 the strop may be prolonged by the use of another surface when one surface is worn out.

For a full understanding of my invention a detailed description of a strop embodying the same in its preferred form will now be 25 given in connection with the accompanying drawings, forming a part of this specification, and the features of construction forming the invention specifically pointed out in the annexed claims. From this description the ap-30 plication of my invention to strops of other forms will be readily understood.

In the drawings, Figure 1 is a side view of the strop. Figs. 2 and 3 are edge views showing the strop with different surfaces in posi-35 tion for use. Fig. 4 is a detail section of the eye-piece.

Referring to said drawings, the strop proper is of a common form consisting of two strips, which may be of any suitable material, but 40 preferably are strips of leather a and canvas b, the canvas strip b being either of a single thickness or folded so as to form two or more thicknesses, as common in swing-strops. These strips are so constructed as to provide 45 strop-surfaces on each side, the strip α having the strop-surfaces 1 2 and the canvas strip b strop-surfaces 3 4 on their respective opposite sides. The two strips ab are connected together at one end by sewing or oth-50 erwise, and at its opposite free end one of the strips, preferably the canvas strip, as I strip a from the hook 6, reversing it, and at-

shown, carries an eye, hook, or similar device for attaching the strop to a fixed support, this device preferably being formed by an eye-piece c, provided with the usual swiv- 55 eled eye 5 for convenient attachment of the strop to the support and its reversal without removal therefrom. It will be understood, however, that the swivel is not absolutely essential, as the strop may be reversed by re- 60 moval from the support. This eye-piece c may be of any suitable construction, but preferably consists, as shown, of a single piece of sheet metal bent so as to inclose the canvas between its ends and having the eye 65 5 swiveled in the bent portion. This eyepiece c carries at opposite sides of the strop hooks 6 7 or equivalent devices, to and from which the strip a may readily be attached and detached. Hooks are preferably used, 70 as shown, and the strip a is provided with an eye for attaching the strip to the hook, this eye being formed either in the body of the strip, as shown, or by a separate piece connected thereto, or in any other suitable manner.

The eye-piece c may be secured to the strip b in any suitable manner, as by riveting, and the hooks 6 7 formed on the eye-piece or otherwise provided. I prefer the construction shown, however, in which the hooks 6 7 80 are made on a single screw-threaded shank passed through the strip b and eye-piece cand secured in position to hold the strip and eye-piece together by fixed collar 8 on one side of the eye-piece and a lock-nut 9 85 screwed onto the shank on the opposite side of the eye-piece. The collar 8 is preferably provided with a squared shank and fits into a similar opening in the eye-piece c, so as to hold the hooks from turning in the eye-piece. 90

The strop may be used without a handle; but preferably I use a handle d, which, as shown, is so constructed that it may be turned edgewise about strip a so as to permit the latter to be reversed.

The method of changing the strop-surfaces is as follows: As shown in Fig. 2, strop-surfaces 1 3 of the strips are in position for use, the strip a being attached to hook 6. When it is desired to use the strop-surfaces 24, they 100 are brought to the outside by unhooking the

taching it to hook 7 on the opposite side of the eye-piece, thus bringing the strop-surfaces 2 4 into position for use, as shown in Fig. 3, the handle d being turned edgewise 5 about the strip to permit this reversal and bring the handle into proper position for use.

It is evident that modifications may be made in the strop illustrated without departing from my invention, and I am not to be 10 limited to the exact construction shown, but intend to cover broadly, a swing-strop having one of its strips detachable at one end and reversible independently of the special construction of the strop or of the means by 15 which this reversibility is secured.

What I claim is—

1. A swing-strop having a strip provided with means for attachment to a fixed support and a strip detachable from the attaching-20 strip at one end and reversible, substantially as described.

2. A swing-strop having supports on opposite sides of one strip at the eye end and another strip adapted to be attached to either 25 of the supports, substantially as described.

3. A swing-strop having supports on opposite sides of one strip at the eye end and another strip adapted to be attached to either of the supports and having a handle constructed

to be turned about the strop edgewise, sub- 30

stantially as described.

4. A swing-strop having two strips a b, provided with strop-surfaces on opposite sides, eye-piece c on one of the strips having hooks 6 7 on opposite sides, and an eye carried by 35 the other strip, substantially as described.

5. The combination, with the strip b, of eye-piece c, hooks 6 7, having a single screwthreaded shank passing through said eyepiece and strip, fixed collar 8 on said shank to on one side of the eye-piece, and nut 9 on the opposite side of the eye-piece, substantially

as described.

6. Eye-piece c, consisting of a single piece of sheet metal carrying an eye, and hooks 6 45 7, having a single screw-threaded shank adapted to pass through the eye-piece and having fixed collar 8 on one side of the eyepiece and nut 9 on the opposite side, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing

witnesses.

JAMES W. DE GRAFF.

Witnesses:

H. T. Munson, T. F. KEHOE.