

No. 707,082.

Patented Aug. 19, 1902.

C. F. BROWN.
SHARPENER.

(Application filed Jan. 16, 1902.)

(No Model.)

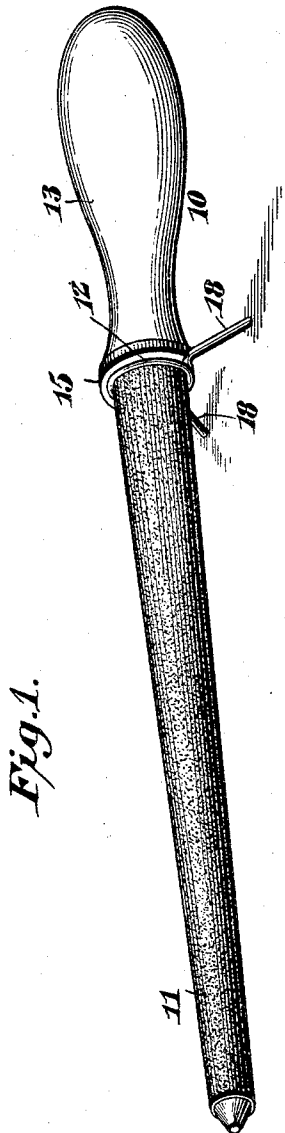


Fig. 4.

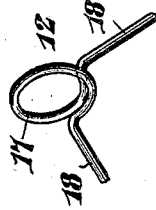


Fig. 3.

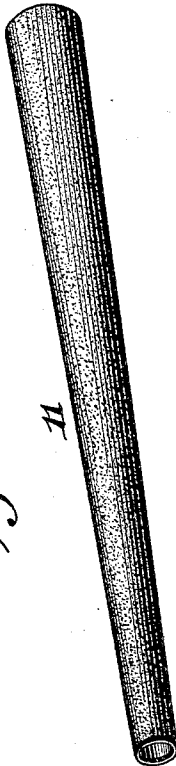
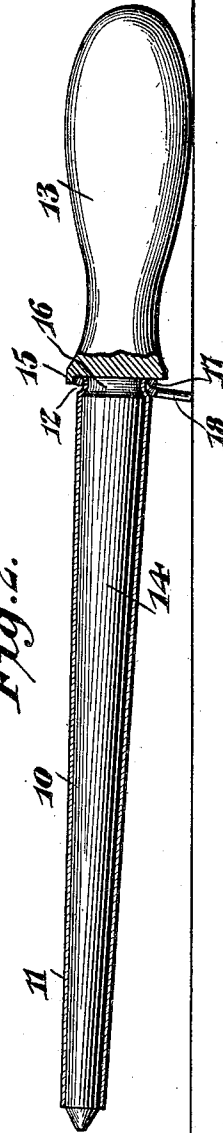


Fig. 2.



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CHARLES F. BROWN, OF GREENEVILLE, TENNESSEE.

SHARPENER.

SPECIFICATION forming part of Letters Patent No. 707,082, dated August 19, 1902.

Application filed January 16, 1902. Serial No. 90,080. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. BROWN, a citizen of the United States, residing at Greeneville, in the county of Greene and State of Tennessee, have invented a new and useful Sharpener, of which the following is a specification.

The present invention relates to sharpeners, and is more particularly intended as an improvement in that class of hand instruments employed in sharpening cutlery.

The object thereof, broadly, is to provide an instrument having an abrasive surface which may be readily removed and replaced by a new one when worn, said surface being securely held in place and rigidly supported throughout its entire area.

To this end a core and a removable cover is employed, which cover carries the abrasive surface, and one of the features of the invention relates to the relative construction of the core and the cover, whereby a snug clamping fit is secured for said cover and a rigid support is insured for the abrasive surface.

Another feature relates to the means for securing this cover in place so as to positively lock it against accidental displacement, said securing means also constituting a support for the sharpener.

The preferred embodiment of the invention is fully described in the following specification and shown in the accompanying drawings, wherein—

Figure 1 is a perspective view of the same. Fig. 2 is a longitudinal sectional view. Fig. 3 is a perspective view of the cover detached, and Fig. 4 is a detail view of the combined clamp and support.

Similar numerals of reference designate corresponding parts in all the figures of the drawings.

The instrument as shown comprises a body 10, a cover 11, and a combined clamp and support 12. The body 10 is constructed of any suitable material, having at one end a handle 13, the other end being in the form of a core 14, that tapers toward its outer end. An annular stop-flange 15 separates the core and handle, and said core is provided at its larger end contiguous to the flange 15 with a

depressed seat in the form of an annular groove 16.

The cover 11 is arranged to fit upon the core 10. It therefore tapers in a similar manner, so that when it is placed upon the core and forced toward the stop-flange it will have a binding and frictional clamping engagement with said core, so that its entire area will be firmly supported. This cover is provided with an outer abrasive face, and it is therefore preferably made of a seamless tube of emery paper or cloth. When in position upon the core, its enlarged end covers the annular groove 16, and the clamp 12 forces this covering portion into the groove. To this end said clamp comprises an expansible and contractible ring 17, that surrounds the cover and will fit in the annular groove. This clamp is preferably formed of a single piece of wire, and its terminals are offset, as shown in Fig. 4, to form a bearing of spaced supporting-feet 18, which will constitute a rest for the instrument and prevent its rolling.

It will be evident that the covers 11 can be constructed at a very slight expense, so that when one is worn it may be removed and replaced by a new one without the necessity of an entirely new instrument. It will therefore be seen that a device is provided which is inexpensive to manufacture and preserve in proper working order. Furthermore, by means of the tapering construction of the core and the cover covers of exactly similar sizes are not necessary, for the reason that by forcing said covers upon the core tight fits are insured. A further advantage resides in the construction of clamp, which not only positively locks the cover in place by forcing it into the groove, but also constitutes a support for the sharpener and prevents its rolling.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages

of the invention. For instance, under certain conditions it may be found desirable to have the core of some other form than a cone, in which case, of course, the shape of the cover could be correspondingly changed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sharpener, the combination with a core having a seat, of a cover removably fitted upon the core and having an outer abrasive face, and holding means engaging the cover and forcing a portion thereof into the seat of the core to hold the cover upon said core.

2. In a sharpener, the combination with a cylindrical core having an annular groove, of a cover removably fitted upon a core and having an outer abrasive face, and a clamping-ring surrounding the cover and forcing a portion of the same into the groove.

3. In a sharpener, the combination with a body having a tapering core at one end, and

a handle at the other, said core being provided at its larger end with an annular groove or socket, of a tapering cover fitted upon the core and having an outer abrasive face, and an expansible and contractible clamping-ring fitted over the cover and forcing a portion thereof into the socket of the core.

4. In a sharpener, the combination with a body having a handle at one end and an abrasive surface at the other, of a support for the body comprising an expansible ring that surrounds the same, said ring being formed of a single wire the terminals of which are disposed in spaced projecting relation and constitute supporting-feet for the sharpener.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES F. BROWN.

Witnesses:

LE ROY PARK,
WM. D. GOOD.