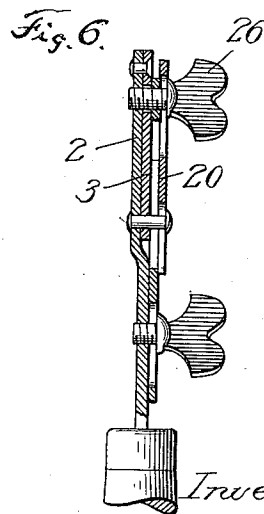
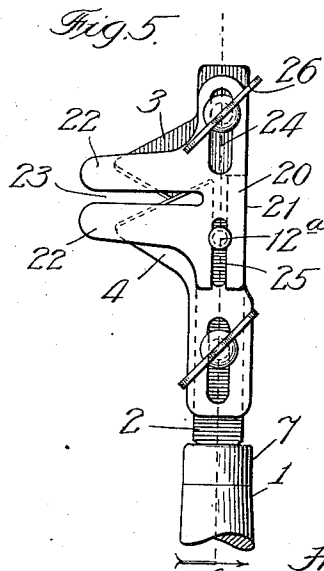
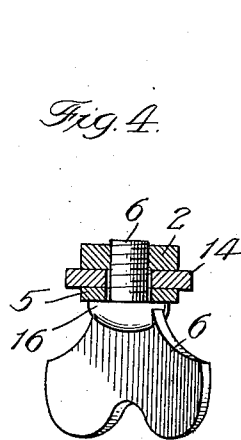
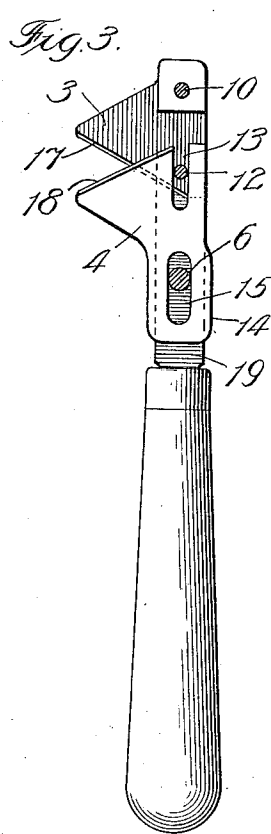
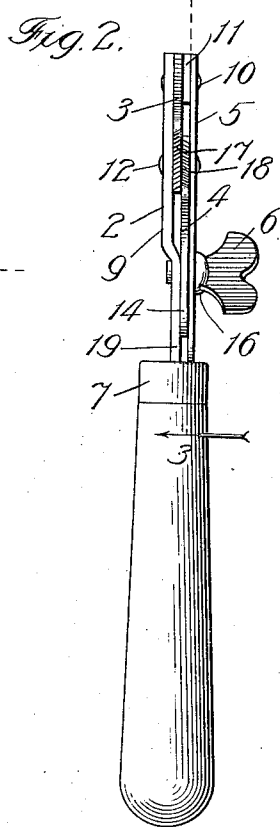
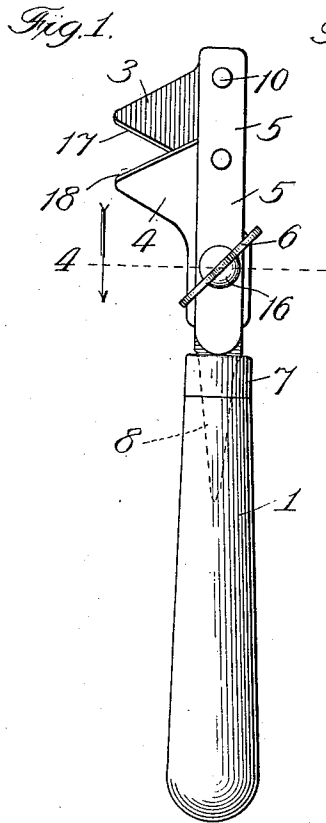


H. E. SMALLBONE.
SHARPENER.
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1,041,360.

Patented Oct. 15, 1912.



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UNITED STATES PATENT OFFICE.

HARRY E. SMALLBONE, OF WILMETTE, ILLINOIS, ASSIGNOR TO SMALLBONE MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SHARPENER.

1,041,360.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Application filed February 10, 1911. Serial No. 607,790.

To all whom it may concern:

Be it known that I, HARRY E. SMALLBONE, a citizen of the United States, residing at Wilmette, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Sharpeners, of which the following is a specification.

My invention relates particularly to devices adapted for sharpening articles of cutlery, such as knives, shears, etc.; and my primary object is to provide an improved and simplified device well adapted for the purpose indicated.

The invention is illustrated in its preferred embodiment in the accompanying drawing, in which—

Figure 1 represents a plan view of a sharpener constructed in accordance with my invention; Fig. 2, an edge elevational view of the same; Fig. 3, a section taken as indicated at line 3 of Fig. 2; Fig. 4, a section taken as indicated at line 4 of Fig. 1; Fig. 5, a broken plan view showing a modification, in which the device is equipped with a knife-guard or guide; and Fig. 6, a section taken as indicated at line 6 of Fig. 5.

Referring to Figs. 1 to 4 inclusive, the device, as there shown, comprises a handle 1 carrying a shank, or member, 2; a fixedly secured sharpening-member, or blade, 3 secured to the outer end of the member 2; an adjustably mounted sharpening-member, or blade, 4 co-acting with the blade 3; a frame-member, or shank-member, 5, co-acting with the shank-member 2; and a winged clamping-screw 6 serving to secure the member 4 in adjusted position.

The handle 1 may, if desired, be a round wooden handle fitted with a ferrule 7, into which the tapered end 8 of the shank-member 2 extends. The member 2 is offset flatwise, as indicated at 9, a short distance from the inner end of the handle. The outer edge-portion of the base of the blade 3 is secured between the outer end-portions of the members 2 and 5 by means of a rivet 10, a short spacing-member 11 being inserted between the member 5 and blade 3, said spacing-member 11 corresponding in thickness with, or being, perhaps, slightly thicker, than the base-portion of the blade 4. Another rivet 12 extends through the inner portion of the base of the blade 3 and through a slot 13 with which the outer portion of the base of the blade 4 is provided, the ends

of the rivet 12 being secured in the members 2 and 5. The base-portion of the blade 4 has an extension 14 provided with a slot 15 through which extends the screw 6. The shank of the screw 6 extends freely through the slot 15, and a collar, or flange, 16 at the base of the shank bears against the member 5 near the free end of said member. The screw has threaded connection with the member 2, so that the extension 14 of the member 4 may be clamped between the members 2 and 5.

The members 3 and 4 may be composed of hardened steel. They have sharpening edges 17 and 18 which cross each other and preferably are beveled slightly in the same direction. The edges 17 and 18 are straight edges and cross each other at an angle corresponding with the bevel which is to be given to the blade of the knife to be sharpened.

The sharpening operation is performed by drawing the blade of the article of cutlery between the sharpening-edges 17 and 18 of the members 3 and 4. When desired, the screw 6 may be unturned to relieve the clamping pressure on the shank 14 of the member 4, whereupon the member 4 may be adjusted with relation to the member 3, thereby varying the point at which the sharpening-edges cross each other, so that fresh portions of the sharpening-edges may be employed, according to necessity. If desired, the screw 6 may be wholly removed, whereupon the member 4 may be removed from the frame to permit the sharpening-edge to be ground, and when this is done the sharpening-edge of the blade 3 may be ground without removing it from the frame. It will be noted that the slot 13 of the member 4 has an open end, and a space 19 is left between the extension 14 of the member 4 and the adjacent end of the handle to enable the removal of the member 4 to be effected, that is to enable the slot 13 to be disengaged from the rivet 12.

In the modification shown in Figs. 5 and 6, the construction is similar to the construction already described, except that the frame-member 5 is omitted, and an adjustable knife-guide 20 is attached. The parts corresponding with the construction heretofore described are similarly numbered. The guide 20 comprises a shank 21 which extends parallel with the member 2 and is

equipped with forks 22 separated by a space 23 adapted to accommodate the knife-blade. The shank 21 is provided with slots 24 and 25 which accommodate, respectively, a clamping-screw 26 and a rivet 12^a, which corresponds with the rivet 12 of the first-described construction. It will be understood that the blade 4 and guide 20 may be independently adjusted, so that the slot 23 of the guide may be brought into registration with the point at which the sharpening-edges of the blades 3 and 4 cross each other, regardless of the position of adjustment of the member 4.

The construction described is simple, may be cheaply manufactured, and the device may be handily used, and is very effective for its purpose.

The foregoing detailed description has been given for clearness of understanding only, and no undue limitation should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a device of the character set forth, the combination of a frame, a fixed sharpening-blade provided with an oblique sharpening-edge, a laterally adjustable sharpening-blade provided with an oblique sharpening-edge crossing said first-named sharpening-edge, and adjusting means serving during adjustment to maintain said sharpening-blades against substantial variation of the angle between their sharpening edges.

2. In a device of the character set forth, the combination of a handle, a shank projecting therefrom, a sharpening-blade fixedly secured to the end-portion of said shank, a sharpening-blade overlapping said first-named sharpening-blade, and guide and adjustment means connecting said second-named blade to said shank and permitting adjustment movement lengthwise of said shank only, whereby variation of the angle between said blades during adjustment is obviated.

3. A device of the character set forth, comprising a handle, a blade-supporting member projecting therefrom, a sharpening-blade secured to the end-portion of said member, a sharpening-blade overlapping said first-named blade and provided with two slots in its base-portion, a clamping-screw extending through one slot in said base-portion and connected with said blade-supporting member, and a guide-pin in the other slot in said base-portion.

4. A device of the character set forth,

comprising a handle, a blade-supporting member fixedly carried thereby, a sharpening-blade mounted on the end-portion of said member, a second member spaced with relation to said first-named member, a second sharpening-blade interposed between said first-named blade and said second-named member, and clamping-means for the second-named blade.

5. A device of the character set forth, comprising a handle equipped with a projecting blade-supporting member, a blade fixedly carried by the end-portion of said member, a stud extending through said sharpening-blade, a sharpening-blade having a base-portion overlapping the base-portion of said first-named blade and provided with an open-ended slot engaging said stud, said second-named blade having an extension provided with a slot, and a clamping-screw extending through said last-named slot.

6. A device of the character set forth, comprising a frame, a pair of adjustably related sharpening-blades, means for adjusting one of said blades with respect to the other, a knife-guide, and means for adjusting said knife-guide independently of said blades.

7. A device of the character set forth, comprising a handle, a blade-supporting member carried thereby, a pair of sharpening blades mounted on said member and provided with sharpening-edges crossing each other, one of said blades having guide and adjusting connections permitting confined adjustment lengthwise of said blade-supporting member and preventing variation of the angle between said sharpening blades, and a knife-guide mounted on and adjustable longitudinally of the blade-carrying member.

8. A sharpening-device comprising a handle carrying a blade-supporting member, a sharpening-blade fixedly secured to the end-portion of said member, a sharpening-blade adjustably connected with the blade-carrying member and having a sharpening-edge crossing the sharpening-edge of the first-named sharpening-blade, and a knife-guide adjustably mounted on said blade-carrying member and having a knife-guiding slot adapted to register with the point of intersection of the sharpening-edges of said sharpening-blades.

HARRY E. SMALLBONE.

In presence of—

R. A. SCHAEFER,
JOHN WILSON.