

May 9, 1933.

R. W. READER

1,907,870

SHARPENING DEVICE

Filed June 15, 1932

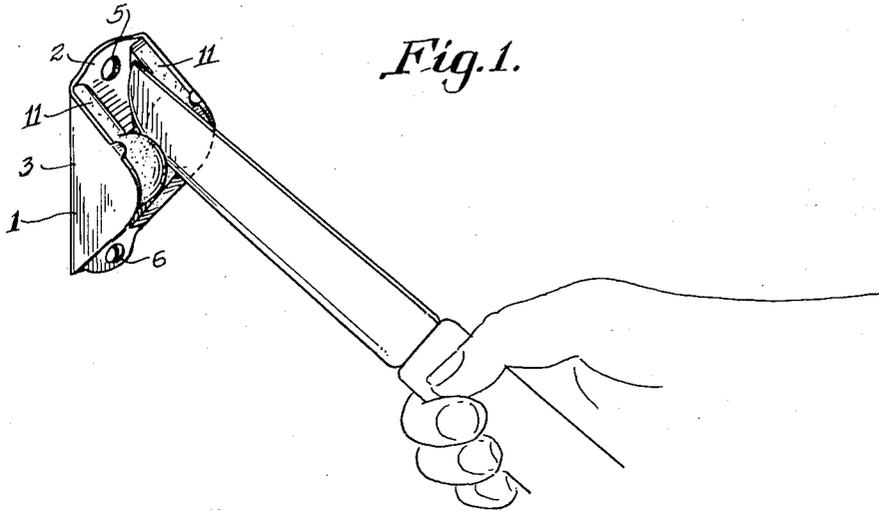


Fig. 2.

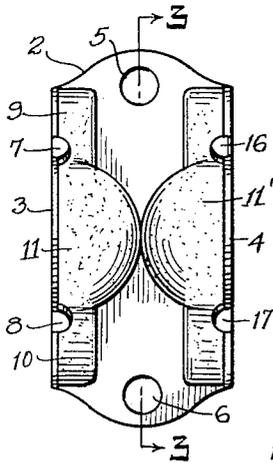


Fig. 3.

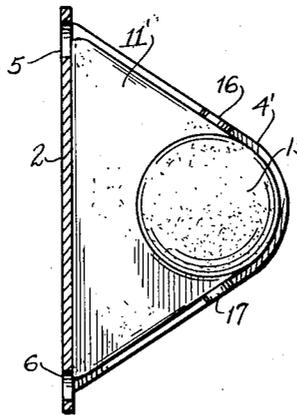


Fig. 4.

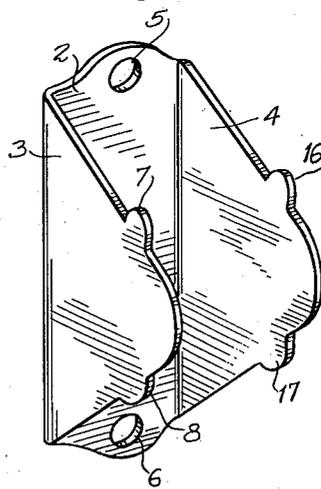
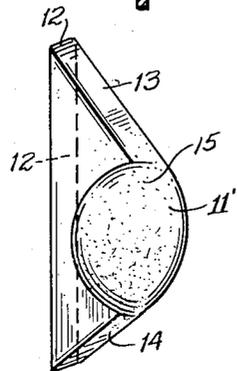


Fig. 5.



Inventor
Robert W. Reader

By *Herbert L. Davis*

Attorney

UNITED STATES PATENT OFFICE

ROBERT W. READER, OF HARRISBURG, PENNSYLVANIA, ASSIGNOR TO NEW BRIGHTON NOVELTIES, INCORPORATED, OF NEW BRIGHTON, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA

SHARPENING DEVICE

Application filed June 15, 1932. Serial No. 617,412.

This invention relates to a sharpening device for knives and other cutlery.

The object of the invention is to provide a very simple and efficient device which can be manufactured cheaply in quantity production.

Other objects of the invention will become apparent as the detailed description thereof proceeds.

In the drawing:

Figure 1 is a perspective view of the invention as mounted upon a support and used for sharpening purposes;

Figure 2 is a plan view of the device;

Figure 3 is a vertical section taken on the line 3—3 of Figure 2;

Figure 4 is a perspective view of a blank in which the sharpening elements of the invention are mounted; and

Figure 5 is a perspective view of one of the sharpening elements.

As shown in the drawing, the invention comprises a frame 1 stamped out of resilient sheet material. This frame comprises a base 2 having side flanges 3 and 4 turned upwardly therefrom at substantially right angles to the base 2. The base 2 is provided with apertures 5 and 6 adapted to receive suitable fastening members such as nails or screws for securing the frame to a wall or other support when desired.

The side flange 3 is provided with tabs 7 and 8 adapted to be bent over the inclined edges 9 and 10, respectively, of a sharpening element 11. The element 11 comprises a substantially triangular slab of abrasive material. This slab of material is provided with a broad flat base 12 adapted to seat squarely on the base plate 2. The side edges 13 and 14 extend upwardly at an angle from the base 12 and merge into a hemispherical part 15. The flat base 12 cooperates with the tabs 7 and 8 in holding the element 11 securely positioned on the base 2 and against the inner face of the flange 3.

The side flange 4 is likewise provided with tabs 16 and 17 adapted to be bent over the inclined edges of a second sharpening element 11' similar in every respect to the sharpening element 11, previously described

as secured in the frame 1 by the tabs 7 and 8. The two sharpening elements 11 and 11' are interchangeable with each other; and the side flanges 3 and 4 are shaped so as to conform somewhat closely to the outline of the sharpening elements. These sharpening elements and the frame 1 are so dimensioned that when the elements are properly positioned in the frame 1, as shown in the drawing, the two hemispherical parts 15 make point contact with each other and are held yieldingly in such contact by the inherent resilience of the sides 3 and 4 of the frame 1.

It is to be understood that the material of which the frame 1 is made shall possess sufficient resilience to hold the parts 15 of the elements 11 and 11' in such point contact with each other throughout the sharpening operation of the device, as illustrated in Figure 1 of the drawing. It is to be noted that this device comprises three elements only; namely, the frame 1, and the two sharpening elements 11 and 11', which are held in position in the frame 1 by the resilience of the frame and by the tabs formed integral with the sides of said frame.

It is evident that the frame can be stamped out of a blank by a single stamping operation, that the elements 11 and 11' can be very readily assembled therein; and that the shape of the elements, corresponding to the shape of the side flanges 3 and 4 of the frame, enable these elements to be positioned in their frame very quickly and accurately.

While I have described my invention as embodied in concrete form and as operating in a specific manner in accordance with the provisions of the patent statutes, it should be understood that I do not limit my invention thereto, since various modifications thereof will suggest themselves to those skilled in the art without departing from the spirit of my invention, the scope of which is set forth in the annexed claim.

What I claim is:

A sharpening device comprising a frame stamped out of a sheet of resilient material to form a substantially rectangular base plate, a pair of substantially triangular

flanges extending from the opposite edges
of said base plate and parallel to each other,
a pair of substantially triangular sharpening
elements each of which has a hemispherical
5 part formed at its apex, and has its base
seated on said plate between said flanges
and with said parts in yielding point con-
tact with each other, said flanges including
10 tabs bent over the sharpening elements to
maintain them in position on said base plate.
In testimony whereof, I affix my signa-
ture.

ROBERT W. READER.

15

20

25

30

35

40

45

50

55

60

65