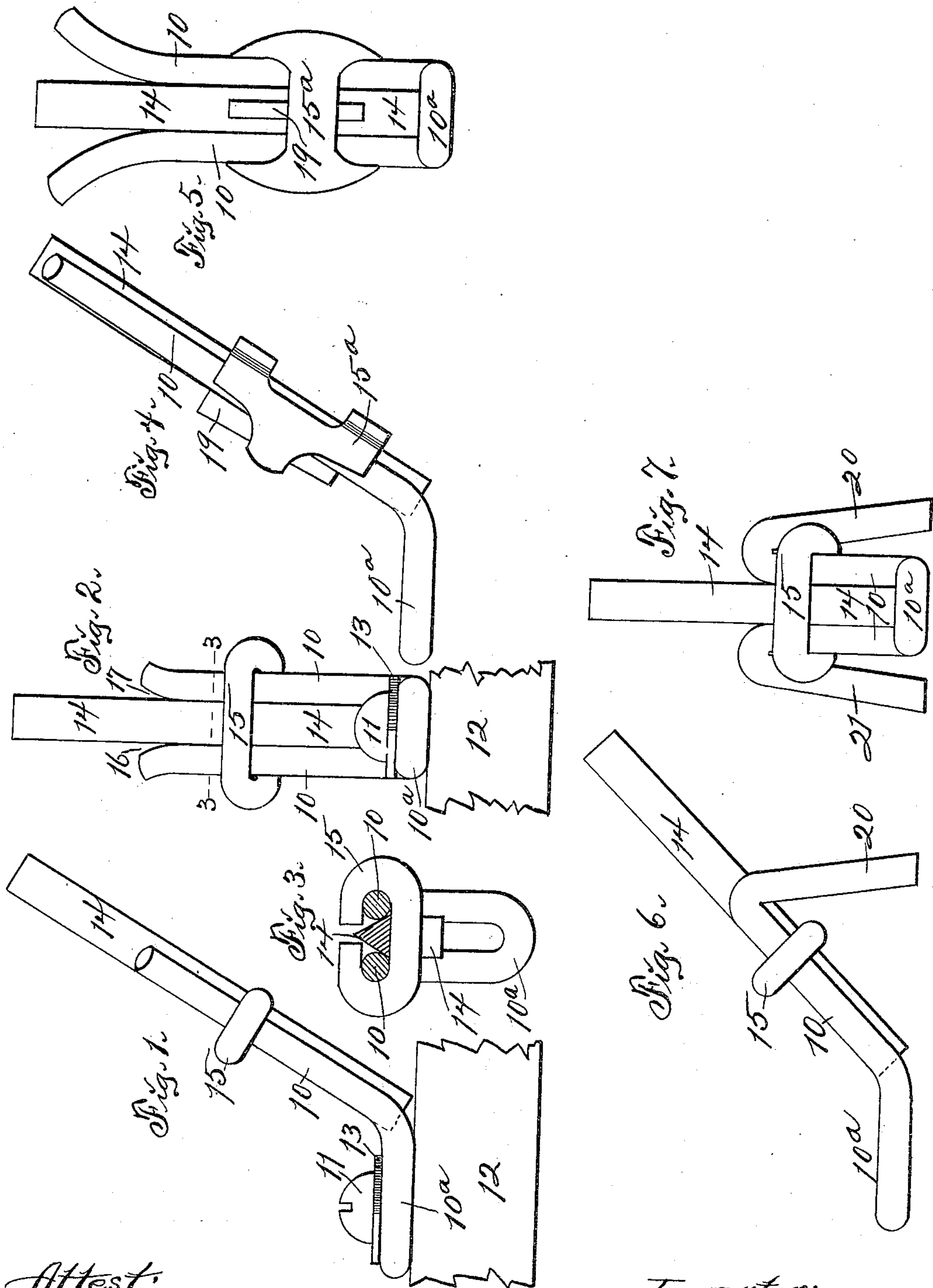


B. F. EMERY.  
KNIFE SHARPENER.  
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942,959.

Patented Dec. 14, 1909.



Attest:  
E. W. Miller  
C. Rosell

Inventor:  
Benjamin F. Emery.  
By *J. H. Sweet* Att'y

# UNITED STATES PATENT OFFICE.

BENJAMIN F. EMERY, OF THAYER, IOWA.

KNIFE-SHARPENER.

942,959.

Specification of Letters Patent. Patented Dec. 14, 1909.

Application filed March 3, 1908. Serial No. 418,951.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. EMERY, a citizen of the United States of America, and resident of Thayer, Union county, Iowa, have invented a new and useful Knife-Sharpener, of which the following is a specification.

The object of this invention is to provide an improved construction for a knife sharpener.

A further object of this invention is to provide means for mounting a knife sharpener rigidly.

My invention consists in the construction, arrangement and combination of elements hereinafter set forth, pointed out in my claim and illustrated by the accompanying drawing, in which—

Figure 1 is a side elevation of one form of my device. Fig. 2 is a rear elevation of the same device. Fig. 3 is a cross-section on the indicated line 3—3 of Fig. 2. Fig. 4 is a side elevation and Fig. 5 a rear elevation of a modified form of my device. Fig. 6 is a side elevation and Fig. 7 a rear elevation of a further modified form of my device.

In the construction of the device as shown in Figs. 1, 2 and 3, a U-shaped yoke 10 is employed. The yoke 10 is preferably formed of a single length of wire circular in cross-section. The closed end portion 10<sup>a</sup> of the yoke is bent at an obtuse angle to the arms of said yoke thereby forming a loop adapted to admit a screw 11, which screw may be seated in a support 12, such as the top of a table and combines such yoke rigidly to such support. A washer 13 preferably is mounted between the head of the screw 11 and the upper face of the yoke base or loop 10<sup>a</sup>. A bar 14, preferably triangular in cross-section, is arranged between the arms of the yoke 10, and is secured in position by a clamp 15 embracing said arms and crossing at the rear of said bar. The clamp 15 preferably is formed of a single length of wire circular in cross-section and the ends of the bar of which said clamp is made preferably are spaced apart, as shown in Fig. 3. The body portion of the clamp 15 preferably engages the rear flat face of the bar 14 while the forward edge of said

bar extends between the ends of the clamp. The clamp 15 binds the arms of the yoke against converging faces of the bar 14. The upper ends of the arms of the yoke 10 diverge laterally from the lateral edges of the bar 14, thus forming tapering notches 16, 17 at the sides of said bar. In practical use a knife may be drawn forward longitudinally through one or the other of the notches 16, 17 in such manner that portions of the knife will be cut or worn off by contact with one or the other of the lateral edges of the bar. The bar 14 may be removed and replaced or substituted by another or adjusted to change the relations of its edges to the arms of the yoke by loosening or expanding the clamp 15. The clamp 15 may be expanded by inserting a wedge or lever between the ends thereof or by pounding the rear face of the central portion of the clamp. The clamp may be tightened again by compression on its longest diameter and such compression may be applied gradually, as in a vise, or suddenly, as by pounding.

In the construction of the device as shown in Figs. 4 and 5, a collar clamp 15<sup>a</sup> is substituted for the clamp 15 and a key 19 or wedge is mounted removably and replaceably between the rear face of the bar 14 and the rear portion of the said collar clamp. In this construction the collar clamp preferably is made by molding and is not susceptible to contraction and expansion in use, the removal or fixing of the bar 14 in the yoke being determined by the wedge or key 19.

In the construction of the device as shown in Figs. 6 and 7, the arms of the yoke 10 are elongated and are bent downwardly on diverging planes to form legs 20, 21 adapted to rest on a support and aid the fastening screw to give stability to the device in use.

The practical use of the device shown in Figs. 4, 5, 6 and 7 is the same as described in connection with the device illustrated in Figs. 1, 2 and 3.

I claim as my invention—

A knife-sharpener, comprising in combination a yoke member having parallel upwardly extending arms and angularly disposed foot formed from the lower ends of



said arms, outwardly flared portions at the upper ends of said arms, a bar located between said arms along their entire length, said bar resting against said foot and forming wedge-shaped slots with said flaring portions, and a resilient clamp expansibly enclosing said arms and bar, said arms and foot and flared portions being formed of a

continuously conformed bar and providing a screw-hole centrally of said foot. 10

Signed by me at Des Moines, Iowa, this 26<sup>th</sup> day of February, 1908.

BENJAMIN F. EMERY.

Witnesses:

THOMAS G. ORWIG,  
S. C. SWEET.