J. O. HUGHES.

KNIFE.

APPLICATION FILED NOV. 8, 1920.

1,434,388. Patented Nov. 7, 1922.

Fig. 1.

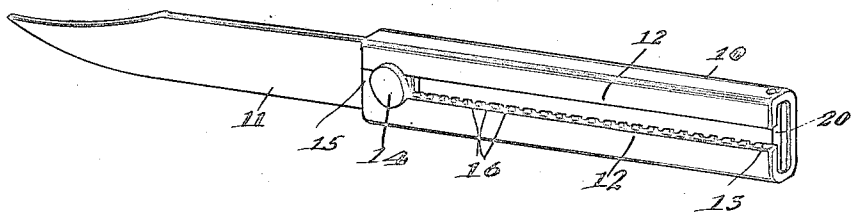


Fig. 2.

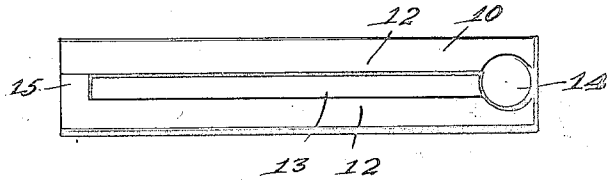


Fig. 3.

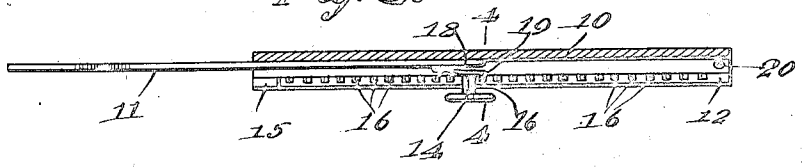
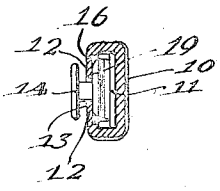


Fig. 4.



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Patented Nov. 7, 1922. 1,434,388

UNITED STATES PATENT OFFICE.

JOSEPH O. HUGHES, OF MURPHYSBORO, ILLINOIS.

KNIFE.

Application filed November 8, 1920. Serial No. 422,613.

To all whom it may concern:

Be it known that I, JOSEPH O. HUGHES, a citizen of the United States, residing at Murphysboro, in the county of Jackson and State of Illinois, have invented new and useful Improvements in Knives, of which the following is a specification.

This invention relates to knives, wherein the blade is arranged to slide within the handle and to be wholly concealed when not in use, the invention residing in the construction, whereby the blade may be held fixed relatively to the handle in any desired position.

The nature and advantages of the invention will be better understood when the following detail description is taken in connection with the accompanying drawings, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of the specification, like numerals of reference indicate similar parts in the several views and wherein:—

Figure 1 is a view of the knife showing the blade projected for use.

Figure 2 is a view in elevation of the knife showing the blade wholly positioned within the handle.

Figure 3 is a longitudinal sectional view through the device showing the blade partly projected.

Figure 4 is a transverse sectional view through the device.

The article forming the subject matter of my invention comprises a handle 10 and a blade 11. The handle 10 is formed from a single piece of material, the opposite longitudinal edges of which are folded inwardly above the body portion of the handle, the edges 12 being spaced apart for the major portion of their length to provide a slot 13. The folding of the edges 12 provides channels in which the blade 11 is arranged to slide, the blade being provided with a headed stud 14 by means of which the blade is manipulated. The handle is preferably of a length slightly greater than the length of the blade so that when the latter is retracted or positioned within the handle it will not project therefrom to cut the pocket in which the knife is carried, or the fingers of the user. Projecting from one edge of the slot adjacent one end of the handle, is a lug 15 which bears against the opposite edge of the slot, closing the slot adjacent one end of the handle. This lug constitutes a stop for the stud 15, and consequently limits the adjustment of the blade when projected from the handle.

With a view of holding the blade in any desired position along the length of the handle, I provide the underside of the inturned edges with a plurality of notches 16. A leaf spring 18 is terminally secured to the blade 17, the opposite extremity of the spring being curved in the direction of the notches 16, the curved extremity 19 normally engaging said notches to hold the blade against movement relative to the handle. When it is desired to project the blade from the handle, the head of the stud is depressed thus moving the curved end of the spring out of engagement with the notches. With the parts so arranged, the blade can be readily adjusted in either direction and subsequent adjustment the stem is removed from the headed stud whereby the spring moves its curved extremity into engagement with the proper notch to hold the blade in its adjusted position.

A pin 20 extends transversely through the handle adjacent one end thereof, and is disposed with respect to the adjacent terminal of the knife blade to be engaged by the latter and limit the movement of the blade in one direction.

While I have shown and described what I consider the preferred embodiment of the invention, I desire to have it understood that I do not limit myself to this exact construction, inasmuch as such changes may be resorted to when desired as fall within the scope of what is claimed.

Having thus described my invention what I claim as new is:—

1. A knife comprising a handle formed from a single sheet of material having its free edges spaced to provide a longitudinal slot, a blade arranged for sliding movement within the handle, a stud projecting from the handle through a slot for manipulating the blade, a head carried by the stud, cooperating means carried by the blade and handle for holding the blade in different adjusted positions and a lug projecting from one of the said longitudinal edges of the handle to close one end of the slot to limit the movement of the blade in one direction.

2. A knife comprising a handle formed from a single sheet of material and having

its longitudinal edges spaced to define a slot, a knife blade slidable within the handle, a stud carried by the blade and projecting through the slot, a head carried by the stud, notches formed along one of said longitudinal edges, a leaf spring supporting the stud on said blade and having an offset portion adapted to engage said notches for holding the blade in different adjusted positions, means for limiting the movement of the blade in one direction, and a lug projecting from one of said edges of the handle to close one end of the slot and thereby limit the movement of the blade in the opposite direction.

In testimony whereof I affix my signature.

JOSEPH O. HUGHES.