July 8, 1924. 1,500,644

O. L. SCALBOM

CUTTER HOLDER

Filed Aug. 3, 1923

Fig. 1

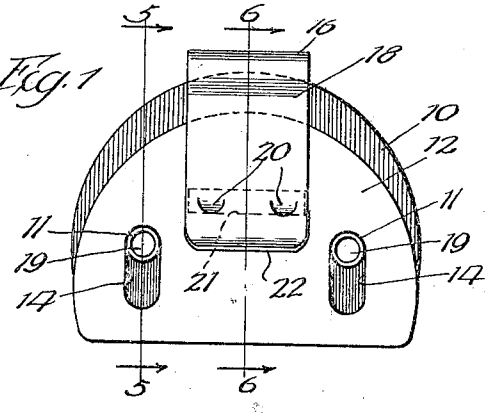


Fig. 2

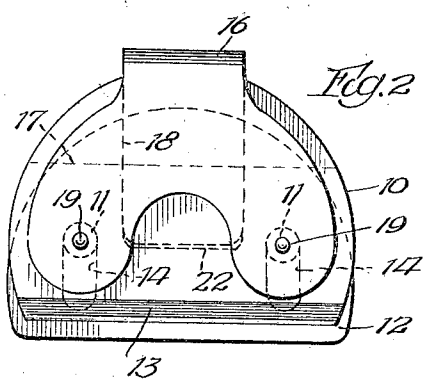


Fig. 3

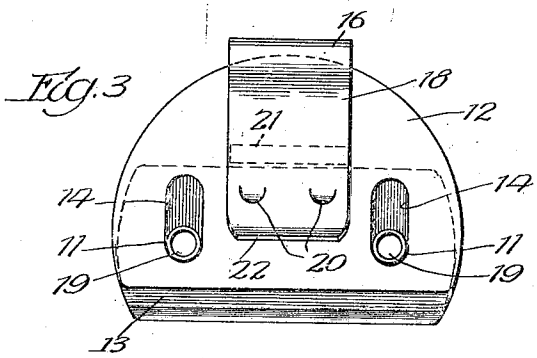


Fig. 4

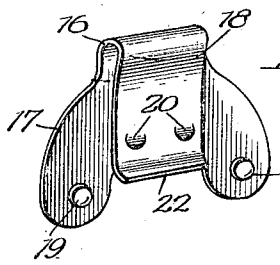


Fig. 5

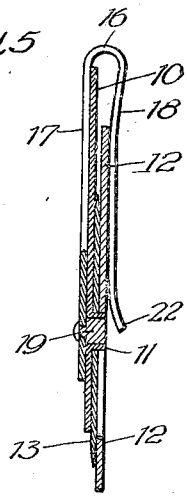


Fig. 6

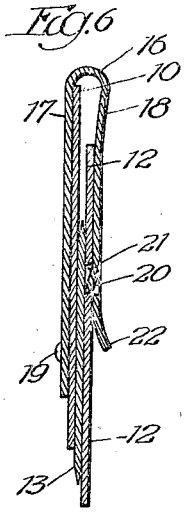


Fig. 7

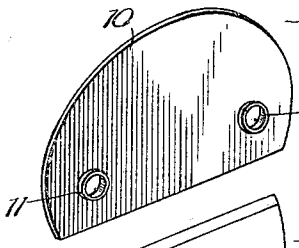


Fig. 8

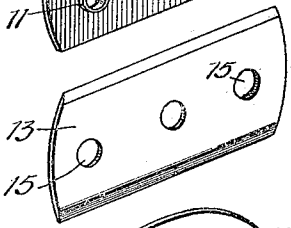
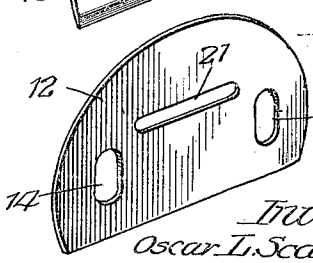


Fig. 9



Inventor
Oscar L. Scalbom
By E. F. Jochum Jr. Atty.

Patented July 8, 1924. 1,500,644

UNITED STATES PATENT OFFICE.

OSCAR L. SCALBOM, OF GLENVIEW, ILLINOIS.

CUTTER HOLDER.

Application filed August 3, 1923. Serial No. 655,411.

To all whom it may concern:

Be it known that I, OSCAR L. SCALBOM, a citizen of the United States, residing at Glenview, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cutter Holders, of which the following is a specification.

This invention relates to improvements in cutter holders for holding cutter blades and one of the objects of the invention is to provide an improved holder of this character embodying members between which the blade is held, and improved means whereby one of the members may be moved or adjusted to cover the cutting edge when the device is not in use and to uncover the edge when it is desired to use the cutter.

A further object is to provide an improved holder of this character embodying means for yieldingly locking one of the members in the position which it assumes when covering the cutting edge so that the edge will not become accidentally uncovered.

A further object is to provide an improved device of this character which will be light and compact in construction so that the same may be readily carried in the pocket without necessitating much space therein.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the feature of novelty in the construction and arrangement of the several parts substantially as hereinafter described and claimed and as shown in the accompanying drawing illustrating the invention and in which,

Fig. 1 is a view of one face of the device and showing one of the members in a position to cover the cutting edge of the blade.

Fig. 2 is a view similar to Figure 1 and as taken from the opposite face of the device.

Fig. 3 is a view similar to Figure 1, showing the position of the members when the cutting edge of the blade is uncovered.

Fig. 4 is a perspective view of the resilient element for causing the members to exert a clamping action upon the blade.

Fig. 5 is a sectional view as taken on line 5—5 Figure 1.

Fig. 6 is a sectional view as taken on line 6—6 Figure 1.

Fig. 7 is a perspective view of one of the holding members.

Fig. 8 is a perspective view of a cutter blade which can be used with this device.

Fig. 9 is a perspective view of the other holding member.

Referring more particularly to the drawing the numeral 10, designates one of the holding members which is preferably constructed of thin sheet material and of any desired size and configuration. Projecting laterally from the member are hollow lugs or projections 11, any number of which may be provided and they open through the face of the member opposite to the face from which the lugs project.

A second member 12, preferably formed from thin sheet material and of a size and configuration similar to the member 10, is provided to co-operate with the member 10, and between these members 10, 12, a blade 13, is held.

The member 12, is provided with slots 14, one for each of the lugs or projections 11, on the member 10, and which lugs also project through the openings 15, that are provided in the cutter blade 13.

When the blade 13, is arranged between the holding members 10, 12, the slots 14, in the member 12, adapt the members for relative movement one with relation to the other so as to permit one of the members to be moved so as to cover and uncover the cutting edge of the blade 13.

Any suitable means may be provided for causing the members to exert a clamping action upon the blade. A suitable and efficient means comprises a resilient element 16, bent so as to form two spaced portions 17, 18, and between which portions the members 10, and 12, are adapted to project so that the member 16, will arch over the members 10, and 12, to serve as a handle by means of which the device may be operated.

The element 16, being resilient and bearing upon the holding members 10, 12, will cause the latter to frictionally clamp the cutter blade, but the tension of the element 16, will not be sufficient to prevent one of the members 10, 12, to be moved one with relation to the other to cover and uncover the cutting edge of the cutter. The slots 14 are of a sufficient length and the lugs

11, are so located that this adjusting movement of the holding member will not be interfered with.

Carried by the portion 17, of the element 16, are lugs 19, which are adapted to enter the hollow lugs 11, on the member 10, and carried by the portion 18, of the element 16, are projections 20, any number of which may be provided, and are adapted to enter an opening 21, in the member 12. The projections 20, may be formed in any desired or suitable manner preferably by deflecting a part of the body of the portion 18.

It will thus be seen that when the blade 13 is placed between the members 10, 12, and the resilient element 16 is connected with the members, the element will cause the members to exert a clamping action upon the blade. By raising the end of the portion 18, of the element 16, so as to move the projections 20, out of the opening 21, the member 12, may be moved with respect to the member 10, to uncover the cutting edge of the blade 13.

The projections 20 and the opening 21, are so arranged that the member 12, may be adjusted far enough to extend beyond the cutting edge of the blade and at that time the projections 20, will spring into the opening 21, to lock the blade in its adjusted position.

In order to facilitate the lifting of the portion 18, of the element 16, to permit the member 12, to be adjusted, the extremity of the portion 18, may be deflected away from the member 12, or laterally with respect to the body portion of itself as at 22.

What is claimed as new is:—

1. A cutter blade holder embodying two co-operating blade clamping members, means for maintaining the members in operative relation, means for causing the members to exert a clamping action upon the blade, the first recited means embodying provisions adapting one of said members to be projected beyond the cutting edge of the blade, and means for locking the said member in its said projected position.

2. A cutter blade holder embodying two co-operating blade clamping members, means for maintaining the members in operative relation, means for causing the members to exert a clamping action upon the blade, the first recited means embodying provisions adapting one of said members to be projected beyond the cutting edge of the blade, and yieldable means for locking the said member in its said projected position.

3. A cutter blade holder embodying co-operating relatively movable blade clamping members between which the blade is held, co-operating means on the members for guiding them in their movement one with relation to the other, resilient means operating to cause said members to clamp the blade, the said resilient means being yieldable to permit one of the members to be moved with respect to the other member to cover and uncover the cutting edge of the blade, and means for locking the said member in position to cover said edge.

4. A cutter blade holder embodying two co-operating relatively movable blade clamping members between which the blade is held, co-operating means on the members for guiding them in their movement one with relation to the other, resilient means operating to cause said members to clamp the blade, the said resilient means being yieldable to permit one of the members to be moved with respect to the other member to cover and uncover the cutting edge of the blade, and inter-engaging means between the said resilient means and one of the said members for locking one of the members in position to cover the cutting edge of the blade.

5. A cutter blade holder embodying clamping members between which the blade is held, a projection on one of the members, the other member having a slot for receiving the projection, resilient means operating upon both of the members for causing them to exert a clamping action upon said blade, the said projection and slot adapting one of the members to be moved with respect to the other member to cover and uncover the cutting edge of the blade, and means for locking the last recited member in a position to cover the said edge.

6. A cutter blade holder embodying clamping members between which the blade is held, a projection on one of the members, the other member having a slot for receiving the projection, resilient means operating upon both of the members for causing them to exert a clamping action upon the blade, the said projection and slot adapting one of the members to be moved with respect to the other member to cover and uncover the cutting edge of the blade, said resilient means and the last recited member being provided one with a projection and the other with an opening to receive the last said projection for locking the last said member in a position to cover the said edge.

7. A cutter blade holder embodying co-operating members constructed of thin sheet material between which the blade is held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members to be moved upon the other member to cover and uncover the cutting edge of the blade, means for maintaining the members in clamping relation, and means for locking one of the members in its position to cover the cutting edge of the blade.

8. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is

held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members to be moved upon the other member to cover and uncover the cutting edge of the cutter, a resilient element operating upon the members to cause them to exert a clamping action upon the cutter blade, said element and one of the said members being provided one with a projection and the other with a recess to receive the projection for locking the said member in a position to cover the said cutting edge.

9. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging each of the said members for causing them to exert a clamping action upon the cutter blade, means connecting the said element with one of the said members, and interengaging means between the said element and the other of the said members for locking the latter in a position to cover the cutting edge of the blade.

10. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element arching over the edge of and engaging each of the said members for causing them to exert a clamping action upon the cutter blade, means detachably connecting the said element with one of the members, and interengaging means between the said element and the other of the said members for yieldingly locking the latter in a position to cover the cutting edge of the blade.

11. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging both of the members to cause them to exert a clamping action upon the cutter blade, interengaging means between the said element and one of the said members for connecting them, and interengaging means between the said element and the other of the said members for locking the latter in a position to cover the cutting edge of the blade.

12. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging both of the members to cause them to exert a clamping action upon the cutter blade, interengaging means between the said element and one of the said members for connecting them, and interengaging means between the said element and the other of the said members for locking the latter in a position to cover the cutting edge of the blade, a portion of the said resilient means being deflected away from the adjacent member to afford a finger hold to facilitate unlocking the locked member.

13. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a hollow lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging each of the members for causing them to exert a clamping action upon the blade, the said projection on the member opening through one face of the member, and a projection on the said element adapted to enter the first said projection for securing the element in position.

14. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a hollow lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging each of the members for causing them to exert a clamping action upon the cutter blade, the said projection on the member opening through one face of the member, a projection on the said element adapted to enter the first said projection for securing the element in position, and interengaging means between the said element and the other of the members for yieldingly securing them together.

15. A cutter blade holder embodying two co-operating members constructed of thin sheet material between which the blade is held, a hollow lateral projection on one of the members, there being a slot in the other member to receive the projection and adapting one of the members for movement to cover and uncover the cutting edge of the blade, a separate resilient element engaging

each of the members for causing them to exert a clamping action upon the cutter blade, the said projection on the member opening through one face of the member, a projection on the said element adapted to enter the first said projection for securing the element in position, there being an opening in the other of the said members, and a projection on the said element adapted to enter the last said opening for yieldingly connecting the parts together.

In testimony whereof I have signed my name to this specification, on this 27th day of July, A. D. 1923.

OSCAR L. SCALBOM.