

Nov. 21, 1944.

G. ROBICHAUD

2,363,084

SCYTHE

Filed Nov. 9, 1943

2 Sheets-Sheet 1

Fig. 1.

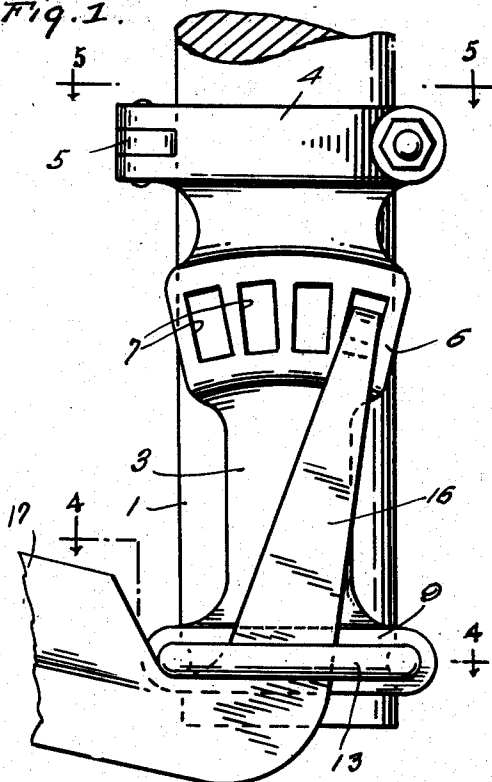


Fig. 2.

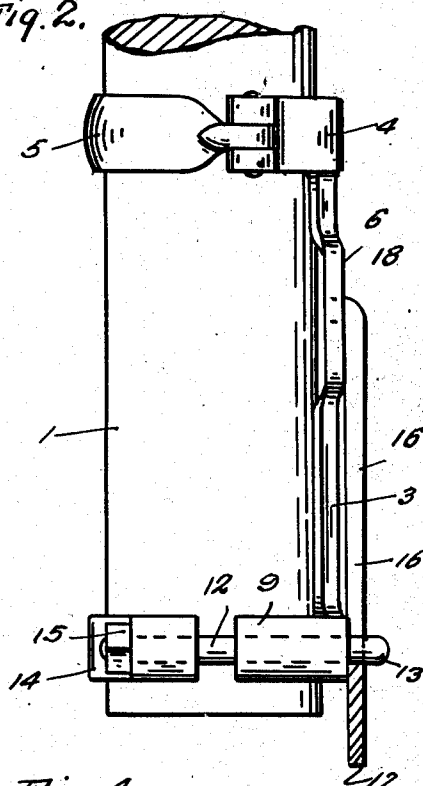


Fig. 3.

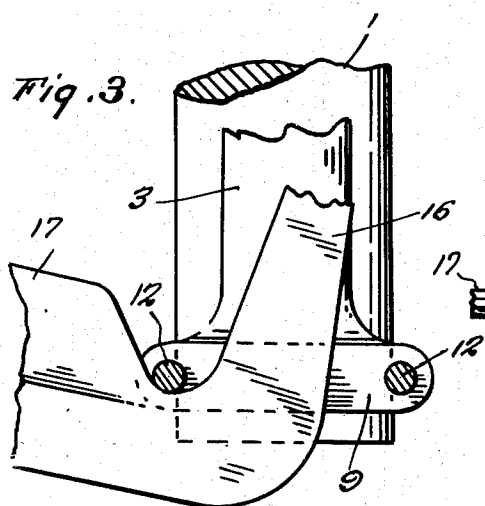
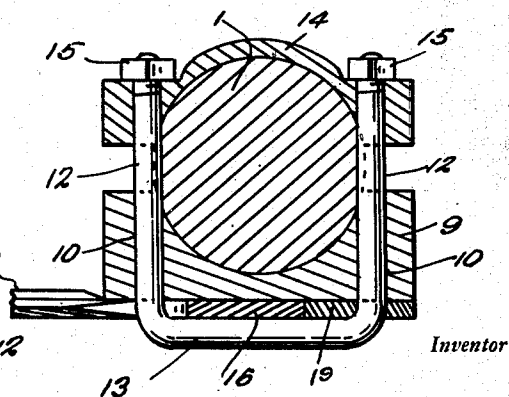


Fig. 4.



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Fig. 5.

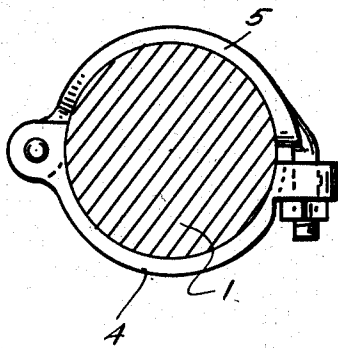


Fig. 7.

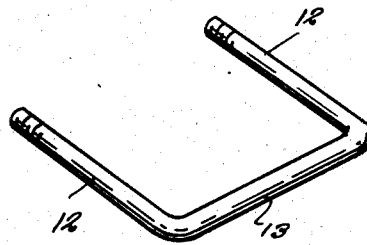


Fig. 6.

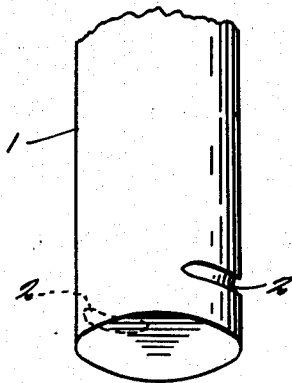


Fig. 8.

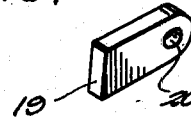
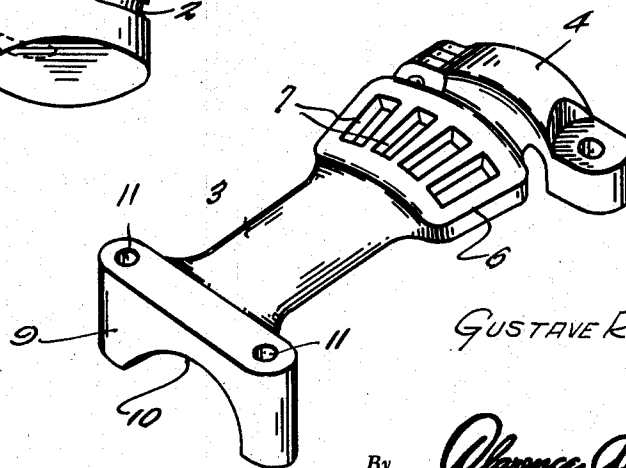


Fig. 9.



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UNITED STATES PATENT OFFICE

2,363,084

SCYTHE

Gustave Robichaud, Glens Falls, N. Y.

Application November 9, 1943, Serial No. 509,615

1 Claim. (Cl. 306—1.3)

This invention relates to scythes of a generally similar nature to that constituting the subject matter of my United States Patent No. 2,324,239, issued July 13, 1943, upon which the present device constitutes an improvement.

An important object of the present invention is to provide, in a manner as hereinafter set forth, a scythe of the character described which embodies unique means for rigidly securing the blade in adjusted position on the snath.

Another important object of the present invention is to provide a scythe of the character set forth comprising coacting means of a novel construction on the snath and blade-attaching means for positively preventing rotation of said blade on said snath.

Other objects of the invention are to provide a scythe which will be comparatively simple in construction, strong, durable, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a plan view of the invention.

Figure 2 is a view in side elevation thereof, showing the blade in cross section.

Figure 3 is a fragmentary view in plan, showing the U bolt in horizontal section.

Figure 4 is a cross sectional view, taken substantially on the line 4—4 of Figure 1.

Figure 5 is a cross sectional view, taken substantially on the line 5—5 of Figure 1.

Figure 6 is a perspective view of the forward end portion of the snath.

Figure 7 is a detail view in perspective of the U bolt.

Figure 8 is a detail view in perspective of the abutment which is engageable with the heel portion of the blade.

Figure 9 is a perspective view of the plate.

Referring now to the drawings in detail, it will be seen that the embodiment of the present invention which has been illustrated comprises a snath 1. In its forward end portion the snath 1 has formed in its opposite side portions circumferential grooves or channels 2.

Mounted longitudinally on the forward end portion of the snath 1 is an elongated metallic plate 3 of arcuate cross section. At its rear end, the plate 3 has formed integrally therewith a

transverse bar 4. A pivoted clamp 5 on the bar 4 is cooperable therewith for securing the rear end of the plate 3 on the snath 1. At an intermediate point the plate 3 is formed to provide a raised, flat arcuate portion 6 having elongated openings 7 therein.

At its forward end, the plate 3 has formed integrally therewith a transverse bar 9 having a recess 10 therein which accommodates the snath 1. The bar 9 is further provided with openings 11 in its end portions. The openings 11 are for the reception of the legs 12 of a U bolt 13 having mounted thereon a clamp 14 which is cooperable with the bar 9 for securing the forward end of the plate 3 to the snath 1. Nuts 15 are threaded on the U bolt 13 for securing the clamp 14 on the snath 1. As illustrated to advantage in Figure 4 of the drawings, the U bolt 13 straddles the snath 1 and the legs 12 of said U bolt are engaged in the grooves or channels 2 of said snath. Thus, the assembly is positively secured against both longitudinal and rotary movement on the snath 1.

The U bolt 13 also constitutes means for clamping the tang 16 of a blade 17 on the bar 9. The tang 16 terminates in an angularly bent end portion or lug 18 which is engageable selectively in the openings 7 for adjusting the angle of the blade 17 relative to the snath 1. The U bolt 13 still further constitutes means for securing an abutment 19 in position on one end portion of the bar 9 for engagement with the heel portion of the blade 17 for assisting in retaining said blade in adjusted position. The abutment 19 has formed in one end portion thereof an opening 20 which accommodates one of the legs 12 of the U bolt 13. Thus, the abutment 19 may swing on the U bolt, when said U bolt is loose, for adjusting itself to the angle of the tang 16.

In use, the U bolt 13 firmly secures the blade 17 in adjusted position with the assistance of the element 19. To adjust the angle of the blade 17 on the snath 1, the U bolt 13 is loosened to permit the lug 18 to be engaged in the desired opening 7. When this is done the abutment 19 adjusts itself on the U bolt 13 for proper engagement with the blade. When the desired adjustment has been made, the U bolt is again tightened.

It is believed that the many advantages of a scythe constructed in accordance with the present invention will be readily understood, and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

A scythe comprising a metallic bar of arcuate cross section for mounting longitudinally on end portion of a handle, cross bars integral with the forward and rear ends of the arcuate bar and having recesses for reception of the handle, a substantially U-shaped clamp pivotally connected at one end to one end of the rear cross bar, means for adjustably connecting the other end of the clamp to the other end of said rear cross bar, the clamp being engageable around the handle and coacting with the rear cross bar to secure the handle, said arcuate bar including an integral arcuate raised portion having an arcuate series of openings therein for the reception of a lug on a blade tang, a U bolt having a flat intermediate

portion for engagement with the blade tang for securing the latter against the forward cross bar and including legs extending through said forward cross bar at opposite sides of the handle, a clamp embracing the handle at the side opposite the forward cross bar, the legs of said U bolt passing through the ends of said clamp and having nuts threaded thereon for securing the handle, said forward cross bar having a flat outer surface coacting with the flat intermediate portion of the U bolt, and an abutment journaled one one of the legs of the U bolt and engageable with the blade tang at the heel of the blade for assisting in retaining the latter in adjusted position.

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