E. E. LIPPERT.

SCYTHE BLADE FASTENER.

APPLICATION FILED AUG. 20, 1917.

1,257,504.

Patented Feb. 26, 1918.

Fig. 3.

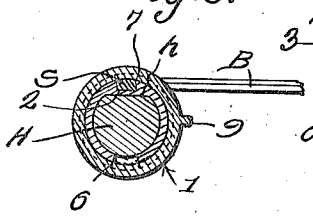


Fig. 1.

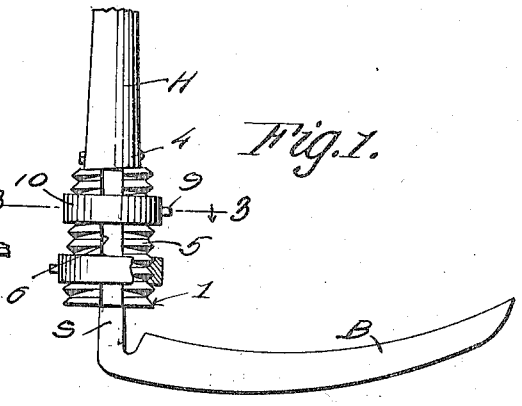


Fig. 2.

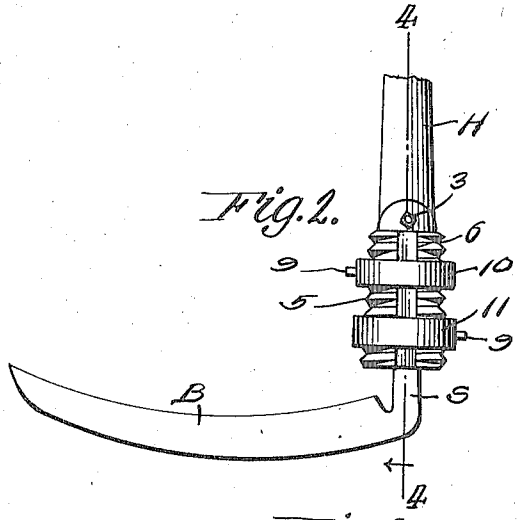


Fig. 4.

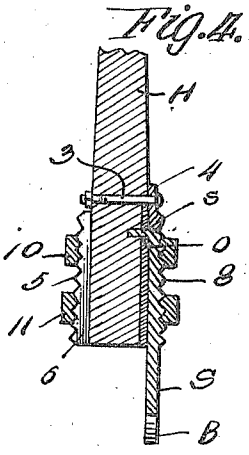
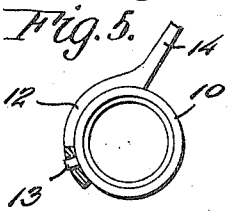


Fig. 5.



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SCYTHE-BLADE FASTENER.

1,257,504. Specification of Letters Patent. Patented Feb. 26, 1918.

Application filed August 20, 1917. Serial No. 187,305.

To all whom it may concern:

Be it known that I, EARL E. LIPPERT, a citizen of the United States, residing at Stroud, in the county of Lincoln and State of Oklahoma, have invented certain new and useful Improvements in Scythe-Blade Fasteners, of which the following is a specification.

This invention relates to agricultural implements and more particularly to blade fasteners for scythes.

The object of the invention is to provide a simply constructed and efficient device of this character in which the parts, while simple, will reliably and firmly hold the scythe blade in connection with its snathe or handle, and which is so constructed as to permit the blade to be readily removed when found desirable to do so.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 represents a side elevation of the blade and of a scythe, the handle being broken off for convenience in illustration and with parts broken out,

Fig. 2 is a similar view taken from the opposite side of the scythe,

Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1,

Fig. 4 is a longitudinal section taken on the line 4—4 of Fig. 2, and

Fig. 5 is a plan view of one of the rings showing the wrench for use in connection therewith in operative position with parts broken out.

In the embodiment illustrated a scythe handle or snathe H is shown having one side thereof flattened as shown at *h* and which carries a blade B of ordinary construction having the usual shank S and which is designed to be secured to the handle H by a fastener presently to be described which constitutes this invention.

The shank S has an inturned finger *s* at its free end which is designed to enter an aperture in the handle H through an opening *o* formed in the ferrule presently to be described.

The fastener constituting this invention comprises a tapered ferrule 1 shaped to engage the lower end of the handle H having a flat inner side wall 2 which is designed to fit over the flat face *h* of said handle and thereby prevent all possibility of the ferrule turning on the handle and which is further secured to the handle by means of a bolt 3 which extends transversely through an apertured lug 4 carried by the upper end of the ferrule and transversely through the handle as is shown clearly in Figs. 1, 2, and 4. This ferrule 1 is externally threaded as shown clearly at 5 in Figs. 1, 2 and 4 and is split longitudinally throughout its length as shown at 6 to permit it to closely engage the handle when the clamping rings 10 and 11 are placed in operative position as will be presently described. This ferrule 1 has a recess 7 arranged longitudinally in its outer face on the flattened portion thereof as is shown clearly in Fig. 3 and which forms a seat for the shank S of the scythe blade when the parts are assembled as is shown clearly in Fig. 3.

The ferrule retaining and clamping rings or bands 10 and 11 are internally threaded to fit the threads of the ferrule 1 and similar threads 8 which are carried by the outer face of shank S, said threads 8 being so formed as to register with the threads 5 of the ferrule when the parts are assembled and form a continuation of said threads. These rings are also provided each with a radially extending stud 9 which is designed to be engaged by a wrench 12 having an aperture 13 in one end adapted to fit over said stud to facilitate the screwing and unscrewing of the rings. This wrench has a handle 14 projecting longitudinally therefrom to afford ample leverage for operating the rings, said handle being shown broken off in Fig. 5 for convenience in illustration.

From the above description it will be obvious that in the assembling of the parts of this device, the ferrule 1 is first placed on the lower end of handle H and secured thereto by the bolt 3. The shank S then has its inturned finger or spur *s* at its free end engaged with the aperture *o* in the ferrule and the corresponding opening in the handle H as is shown clearly in Fig. 4. The rings 10 and 11 are then screwed down over the

ferrule and shank S thereby forcing said ferrule into tight clamping engagement with the shank and the handle so that the shank is securely held against all possibility of its turning, the two rings operating to insure this connection.

When it is desired to remove the blade for any reason the rings are first removed by engaging the wrench 12 therewith and unscrewing them and then separating the shank S from the ferrule and handle and if desired the ferrule may also be removed by simply unscrewing bolt 3.

It will thus be seen that the fastener proper comprises three members only, the ferrule and the two clamping rings which being used in connection with the threaded blade shank, having its lateral handle engaging finger will operate to rigidly and securely hold the blade in engagement with the handle.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains and while I have described the principle of operation of the invention together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made as are within the scope of the claimed invention.

I claim:—

1. The combination with a scythe handle, a ferrule mounted on said handle, coöperating means carried by said handle and ferrule for holding the ferrule against turning on the handle, a seat extending longitudinally of said ferrule, threads formed on the exterior of the ferrule, a blade having a shank adapted to fit in said seat and provided with threads on its outer face adapted to register with the threads on the ferrule, and a clamping band having interior threads for engaging the threads of the ferrule and shank whereby they are locked to each other and to the handle.

2. The combination with a scythe handle having one face flattened at its lower end, a tapered ferrule having a flat inner face to fit on said handle and whereby it is held against turning relatively thereto, a seat extending longitudinally of said ferrule on its outer face, said ferrule being split from end to end with the edges of said split portion normally spaced apart, a blade having a shank adapted to fit in said seat, and a clamping band for engaging said ferrule and shank for locking them together.

3. A scythe blade fastener comprising a longitudinally split exteriorly threaded ferrule having a seat extending longitudinally of its outer face to receive the shank of a blade, clamping bands interiorly threaded to fit the threads of said ferrule, and means carried by said bands to facilitate the turning of the bands on the ferrule.

4. A scythe blade fastener comprising a longitudinally split exteriorly threaded ferrule having a seat extending longitudinally of its outer face to receive the shank of a blade, clamping bands interiorly threaded to fit the threads of said ferrule, and studs extending radially from said bands to facilitate the turning of the bands on the ferrule.

In testimony whereof I affix my signature in presence of two witnesses.

EARL E. LIPPERT.

Witnesses:
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H. V. Corey.