C. SEARS.

Snath Attachments.

No. 221,618. Patented Nov. 11, 1879.

Fig. 1.

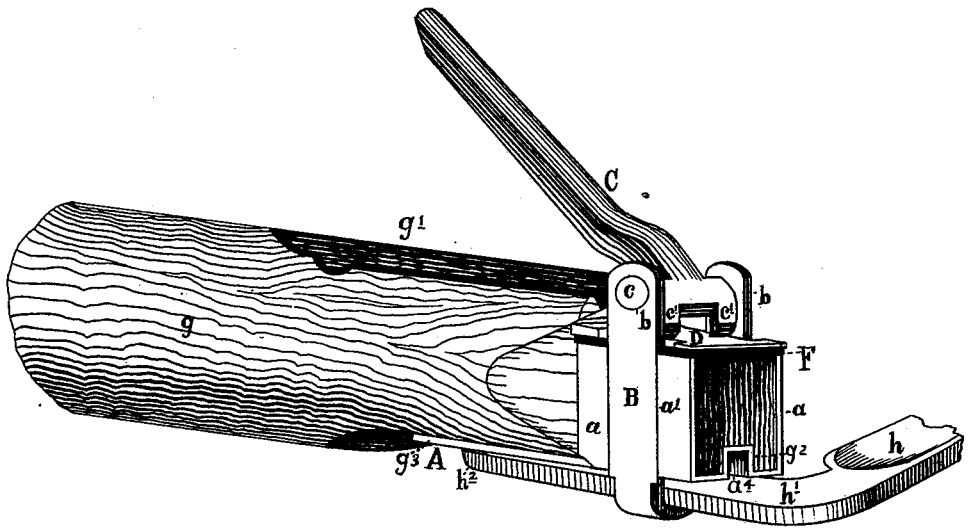


Fig. 3.

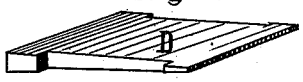


Fig. 4.

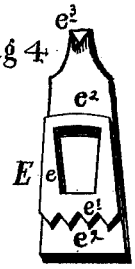
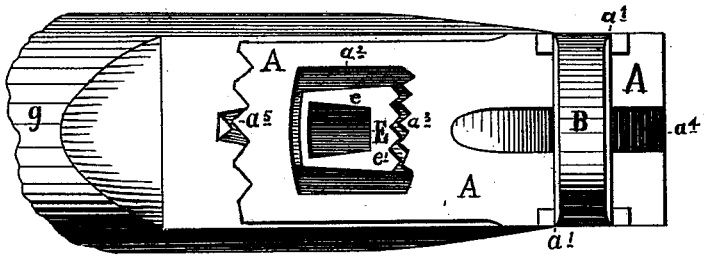


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES SEARS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN SNATH ATTACHMENTS.

Specification forming part of Letters Patent No. **221,618**, dated November 11, 1879; application filed October 21, 1879.

To all whom it may concern:

Be it known that I, CHARLES SEARS, of the city of Chicago, in the county of Cook, of the State of Illinois, have invented a new and useful Improvement in Attachments for Snaths, of which the following is a specification, the annexed drawings and letters of reference marked thereon being made a part thereof, and reference being had thereto.

My invention consists of a device for attachment to the heel of a snath for fastening to the latter a scythe, and is composed of a metal plate, A, provided with ratchets a^3 and a^5, a clamp, B, a lever, C, provided with a cam, c', an adjusting-wedge, D, a movable socket-plate, E, provided with ratchets e' and e^3, and a flexible pad, F. The respective parts are constructed and arranged in relation to each other, and the device is applied and operated upon the snath, as hereinafter more fully and clearly described and set forth, for the purpose of enabling others skilled in the art thereto pertaining to make and use the same.

In making this device I have provided an attachment for snaths for fastening scythes that is free from adjusting screws and nuts, and in using which no portable tool is required to attach the scythe to adjust it upon or remove it from the snath, the device being operated by the lever C.

In the drawings, Figure 1 is a perspective view of my device complete attached to a snath and securing thereto a scythe, the lever being partly raised. Fig. 2 is a plan view of the under side of the same without the scythe. Fig. 3 is a perspective view of the adjusting-wedge, and Fig. 4 is a like view of the movable socket-plate.

Letters of like name and kind refer to like parts in each of the figures of the drawings.

In my device the metal plate A has at or near one end, at each side edge, a perpendicular side flange, *a*, provided with a groove, a', for holding and being operative within the clamp B. The latter is U or clevis shaped. The ends of the clamp projecting above the side flanges, *a*, are, respectively, provided with a journal-box, *b*, and engage the lateral lugs *c* of the lever C. The cam c' of the latter operates upon the wedge D placed upon the flexible pad F resting upon the side flanges, *a*, the pad F being made of soft rubber or other suitable flexible material. The cam c' of the lever C consists of a protuberance projecting obliquely downward, and bearing upon the wedge D on the opposite side of the journal-bearings or fulcrum from the lever C, so that when the latter is pushed home upon the snath *g* three bearings are formed—one at the fulcrum, one near the free end of the lever, and one at the cam.

The plate has, near the end opposite the one having the side flanges, a mortise, a^2, of which the end edge nearest the flanges has a series of cog-ratchets, a^3, and a like series of ratchets, a^5, is formed at the end edge of the plate A nearest the mortise a^2.

On the under surface of the plate A a groove, a^4, is formed, commencing at a point near the mortise, and extending longitudinally to the end of the plate, forming a passage-way for the nipple h^2 of the scythe *h*.

The device is attached to the heel of the snath *g* by means of screws, or in other suitable manner, in such a position that the plate A is aplied to the flattened surface g^3 of the under side of the snath *g*, the heel of the latter being cut to a rectangular shape and fitted to the space between the side flanges, *a*, and the plate A. In the flattened under surface g^3 of the latter a groove, g^2, is cut, corresponding with the groove a^4 of the plate A to accommodate the latter, and on the upper surface of the snath *g* a longitudinal groove, g', is cut to accommodate the lever C. The movable socket-plate E is, at the portion thereof containing the mortise *e*, raised above the level of the ends e^2 e^2, so that when placed within the mortise a^2 of the plate *d* the plates A and E have the same level. The ends e^2 e^2 of the socket-plate E project under the plate A, and are movable between the latter and the snath *g*, and one of said ends projects beyond the ratchet a^5 of the plate A, and is provided with the ratchet-lug e^3. The ratchet e' is formed on the shoulder formed by the raised portion of the socket-plate E, which is next to the ratchet a^3 of the plate A. The ratchets of the socket-plate E engage with the ratchets of the plate A, by means of which arrangement the socket-plate E is made adjustable for the purpose of adjusting the scythe upon the snath.

In attaching a scythe to a snath having my device, the lever C is raised to allow the clamp B to drop down, then the shank h' of the scythe is pushed inward between the clamp B and the plate A, the nipple h^2 of the scythe passing through the groove a^4, when the socket-plate E is adjusted upon the ratchets for the purpose of adjusting the scythe h, and the lever is pushed down into the groove g' of the snath g for the purpose of fastening the scythe by the clamp B.

Having thus described my device, I do not claim as my invention, in a snath attachment for fastening scythes, the combination of a clamp, cam-lever, wedge, and pad, or any one of the said parts, knowing that like parts have heretofore been used for like purposes; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In a snath attachment for fastening scythes, the combination of the lever C, provided with the cam c', the clamp B, and the grooves a', of the side flanges, a, of the plate A, as constructed and arranged, for the purposes set forth.

2. In a snath attachment for fastening scythes, the socket-plate E, provided with ratchets e' and e^3, in combination with the mortise a^2 and ratchets a^3 and a^5 of the plate A, substantially as described, for the purpose set forth.

3. In combination with the snath g, the plate A, having side flanges, a, with grooves a', a mortise, a^2, and ratchets a^3 and a^5, the clamp B, the lever C, with cam c', and the socket-plate E, with ratchets e' and e^3, constructed and arranged as described, for the purposes set forth.

In witness whereof I hereunto set my hand.

CHARLES SEARS.

In presence of—
AUGUSTUS T. SEARS,
LOUIS GOSSELIN.