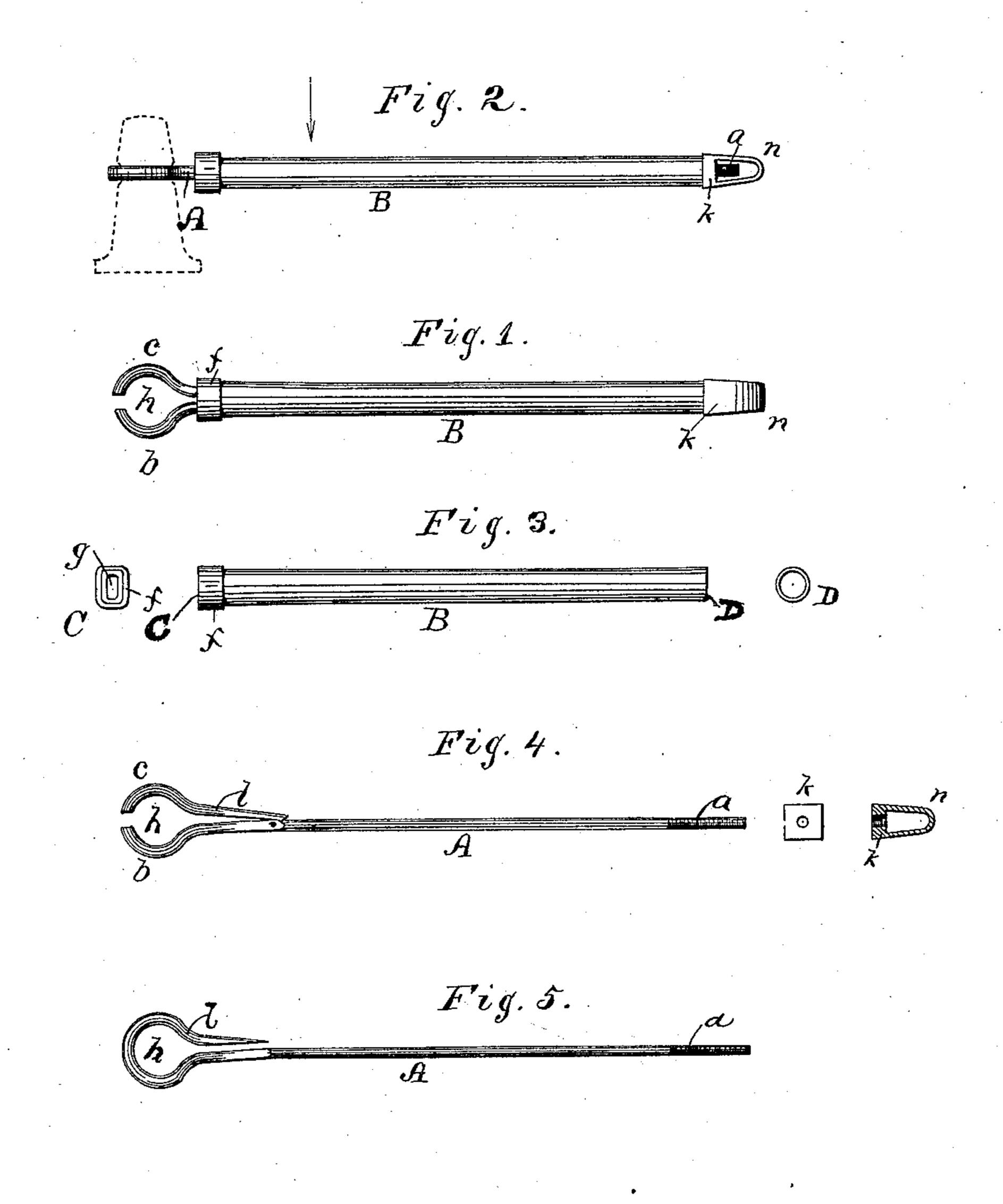
(No Model.)

W. E. WHITTLETON

HANDLE FOR BLACKSMITHS' TOOLS.

No. 304,769.

Patented Sept. 9, 1884.



Attest:

6. Jouner. I De Ward. Inventor:

N. E. Whittleton.
By E.B. Whitmore, atty.

United States Patent Office.

WILLIAM E. WHITTLETON, OF ROCHESTER, NEW YORK.

HANDLE FOR BLACKSMITHS' TOOLS.

SPECIFICATION forming part of Letters Patent No. 304,769, dated September 9, 1884.

Application filed May 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. WHITTLE-TON, of the city of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Handles for Blacksmiths' Tools, which improvement is fully set forth in the following specification

and accompanying drawings. There is a class of blacksmiths' and boiler-10 makers' tools, including the cold-chisel, flatter, fuller, swage, rivet-header, &c., used in forging and boiler-making that are formed to be held upon the work by the principal workman and struck with a sledge by the assistant. These tools are commonly made with eyes or holes through them laterally, in which to receive the ends of wooden handles about twenty inches or two feet long, to be grasped by the principal workman while the helper strikes 20 the head of the tool with a sledge, as stated, to give shape to the work. Piercing these tools with eyes is an expensive operation in the manufacture of them, and, besides, the eyes very much weaken the tools, so the latter 25 are very apt to break across at the eye after being repeatedly struck with the sledge. To avoid the expense and time necessary to form these tools with eyes, blacksmiths sometimes form them solid and bend a piece of wire or 30 light rod of iron around them, bringing the projecting ends of the wire or rod together to be used as a handle, the tool being held in the coil or bend of the same. Tools thus formed last much longer and are made at much less 35 expense; but the crude handles thus formed are troublesome and objectionable, as they do not hold the tools firmly, and, besides, are

To supply a desirable handle for holding these solid or eyeless tools firmly and well, and one to take the place of the crude bent rod, is the object of my invention, which invention consists of a rod with an adjustable eye or loop at one end in which to receive the tool, and a sleeve to receive or cover the shank or rod and effect the expansion or contraction of the eye by longitudinal adjustment, and means to adjust the sleeve thereon so as to expand or contract the eye or loop at pleasure in the act of grasping and holding the tool, which in-

awkward to grasp or hold in the hand.

vention is fully set forth in the accompanying drawings, and more particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of my improved eyeless tool-holder 55 with all parts in place, a tool being shown in dotted lines; Fig. 2. a view of the same taken as indicated by arrow in Fig. 1; Fig. 3, a view of the sleeve removed from the rod or shank, showing also the form of the ends of the form- 60 er; Fig. 4, a view of the rod and eye without the sleeve, also the adjustable thread-protecting nut in plan and central longitudinal section; Fig. 5, a modification in the construction of the eye; and Fig. 6, an enlarged figure 65 showing the movable part of the eye in two positions, and the manner of hanging the same to the main part or shank, the latter being sectioned longitudinally to expose the joint.

Referring to the parts, A is a rod of iron, of 70 suitable diameter and length to form a holder for the tools above mentioned, provided with a screw-thread, a, at one end, and at the other end curved into a nearly semicircular hook or bow, b.

l is a short piece of rod of the same diameter as the rod A, bent at c, similar to the curved part b of the rod, and attached to the latter so that the curved ends of the two parts shall be even, the curves lying in the same 80 plane and concavities of the two curves opposite each other, as shown. The part l is joined to the rod A by means of a simple tongue, e, projecting from the part l into a longitudinal opening, d, in the rod A, as shown 85 in Fig. 6, a pin, i, passing through both parts to retain them in place, and when thus joined the bowed parts c and b form a circular loop or eye, h, in which to receive the tool.

At C is shown the end of the sleeve surrounded by the band, showing the whole as slightly flattened, making the bore g of the pipe thereat oblong or oval. The other end 95 of the sleeve is cylindrical, as shown at D, to be grasped in the hand of the workman. The sleeve is passed over the rod A, as shown in

B is a sleeve for the rod A, preferably made 90

Figs. 1 and 2, the flattened banded end being next the eye h, so that the oval or oblong part 100

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g of the bore covers a portion of the separated or diverging parts b and l near the point at which they are joined. From this construction of parts it will be understood that if the sleeve 5 be urged longitudinally toward the eye h, the latter will be contracted by the parts b and lbeing brought nearer together, while, if the sleeve be slid back or in the opposite direction, the eye is permitted to expand. The sleeve is 10 shorter than the rod, and of such relative length that when placed on the latter the threaded end a of the rod projects a short distance to receive the nut k, which, when screwed onto the threads at a, bears against the end of 15 the sleeve. By turning or screwing the nut j further on the rod the sleeve will be urged further over the divided parts forming the eye, and contract the latter upon the tool. The tool may be released by turning the nut k in 20 the opposite direction and allowing the sleeve to slide back from the eye. The nut k is provided with a \cup -shaped part or bow, n, which covers and protects from injury the threaded end a of the rod. In throwing these tool-25 handles around carelessly, as workmen are apt to do while using them, the threads at a are apt to get marred unless protected. This style of tool-handle is light and durable and convenient to hold in the hand, and in every way 30 preferable to the wooden or bent-rod handles first above named.

The form of rod and eyes shown in Fig. 5 is much cheaper to construct, and in some cases may answer just as well, though the extent to which it may be expanded and contracted is 35 less than that of the corresponding part shown in Fig. 4. The sleeve being carried over the rod causes the eye to open or close in the same manner in which it causes the eye of the rod shown in Fig. 4 to open and close, as described. 40

What I claim as my invention is—

1. A handle for holding eyeless tools, consisting of a rod, A, with attached part l, which latter, with the rod A, is curved to form an eye, h, in which to receive the tool, and a 45 sleeve, B, for the rod, with means to move the sleeve longitudinally upon the rod to adjust the size or diameter of the eye, substantially as shown and described.

2. The rod A of a tool-holder, provided at 50 one end with a screw-thread, a, and at the other end with a part, l, joined to the rod by a pivotal joint, the two parts together forming an eye, h, in which to receive a tool, a sleeve, B, for the rod, and screw-nut k, for the threaded 55 part a of the rod, said screw-nut being provided with a protector, n, for the thread, substantially as set fouth

stantially as set forth.

WILLIAM E. WHITTLETON.

Witnesses:

E. B. WHITMORE, Z. L. DAVIS.