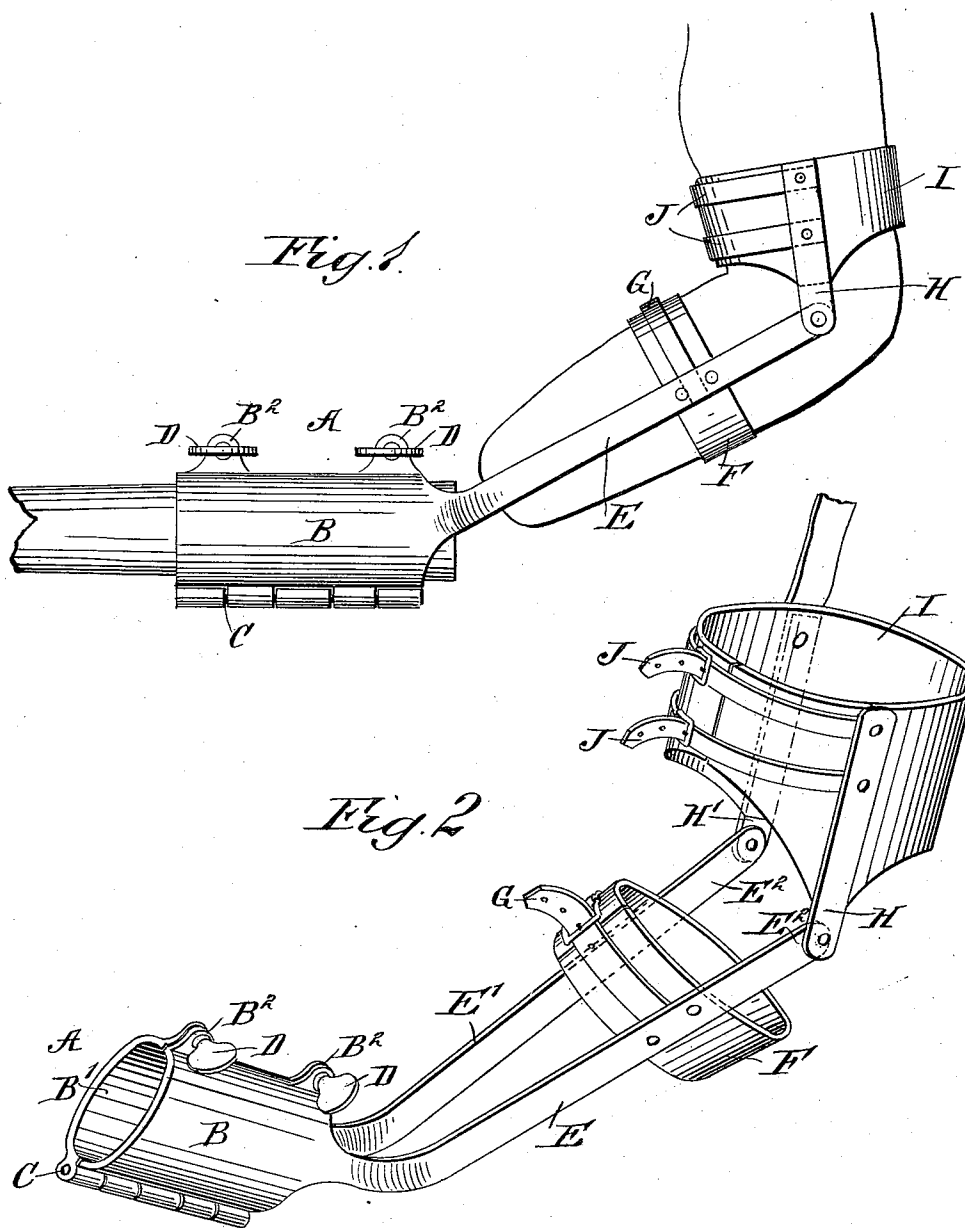


(No Model.)

W. BOARDMAN.
ARTIFICIAL ARM.

No. 469,115.

Patented Feb. 16, 1892.



WITNESSES:

J. M. Ardlie
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UNITED STATES PATENT OFFICE.

WILLIAM BOARDMAN, OF CHICAGO, ILLINOIS.

ARTIFICIAL ARM.

SPECIFICATION forming part of Letters Patent No. 469,115, dated February 16, 1892.

Application filed December 19, 1891. Serial No. 415,651. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BOARDMAN, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Arm Attachment, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved attachment for crippled or weak arms to permit the wearer to use the arm for conveniently manipulating hammers, saws, and other tools for various purposes.

The invention consists of a clamp adapted to receive the handle or other part of the tool to support the latter and a frame adapted to be secured to the arm and rigidly engaged with the said clamp.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of the improvement as applied, and Fig. 2 is a perspective view of the same detached.

The improved arm attachment is provided with a clamp A, adapted to receive the handle or other part of the tool, so as to support the latter on the device. The clamp A, as shown in the drawings, is preferably made of two members B and B', hinged together at C and secured at their opposite edges by bolts or screws D, engaging suitable lugs B², projecting from the top of the members B and B'. The clamp A is supported on a frame preferably provided with two arms E and E', rigidly connected with the inner ends of the members B and B', the arms slightly diverging, as is plainly shown in Fig. 2, to conform to the contour of the forearm. The two arms E and E' are connected with each other by a band F, made of leather or other suitable material, the ends of the band being adapted to be secured together by a suitable strap and buckle G, as plainly shown in Fig. 2. The band F is adapted to encircle the forearm, as illustrated in Fig. 1, the band being secured in place by the strap and buckle G. The outer or upper ends of the arms E and E' are slightly curved outward, as at E², so as not to obstruct

the movement of the arm at the elbow. The arms E and E' are pivotally connected at their upper ends with the rods H and H', respectively, attached to the outside of a band I, adapted to encircle the upper arm above the elbow, as plainly illustrated in Fig. 1. The ends of the band I are adapted to be connected with each other by straps and buckles J, so as to securely attach the band I to the upper arm. It will be seen that the hinge connections between the arms and rods H E and H' E' permits a free up-and-down swinging motion of the forearm carrying the frame and clamp A, so that the tool secured in the latter is moved in a like direction to enable the operator to conveniently and easily manipulate the tool for various purposes. The upper band I by its rods H H', pivotally connected with the frame, hold the latter in proper position on the forearm by preventing the frame from slipping forward off the stump of the forearm.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. An arm attachment comprising a clamp adapted to receive the handle or other part of the tool and a frame adapted to be secured to the arm and rigidly connected with the said clamp, substantially as shown and described.

2. An arm attachment comprising a clamp adapted to receive the handle or other part of the tool, a frame adapted to be secured to the forearm and rigidly connected with the said clamp, and a band attached to the upper arm and pivotally connected with the said frame to hold the latter in position on the forearm, substantially as shown and described.

3. An arm attachment comprising a hinged clamp adapted to receive the handle or other part of the tool, a frame provided with two arms rigidly connected with the two members of the said clamp, a band connecting the arms of the frame with each other and adapted to encircle the forearm, and a second band adapted to engage the upper arm and carrying rods pivotally connected with the arms of the said frame, substantially as shown and described.

4. An arm attachment comprising a hinged clamp adapted to receive the handle or other part of the tool, a frame provided with two

arms rigidly connected with the two members
of the said clamp, a band connecting the arms
of the frame with each other and adapted to
encircle the forearm, a second band adapted
5 to engage the upper arm and carrying rods
pivotally connected with the arms of the said
frame, and straps and buckles for connecting

the ends of the said band, substantially as
shown and described.

WILLIAM BOARDMAN.

Witnesses:

WM. BAIRD,
CHAS. HORT.