

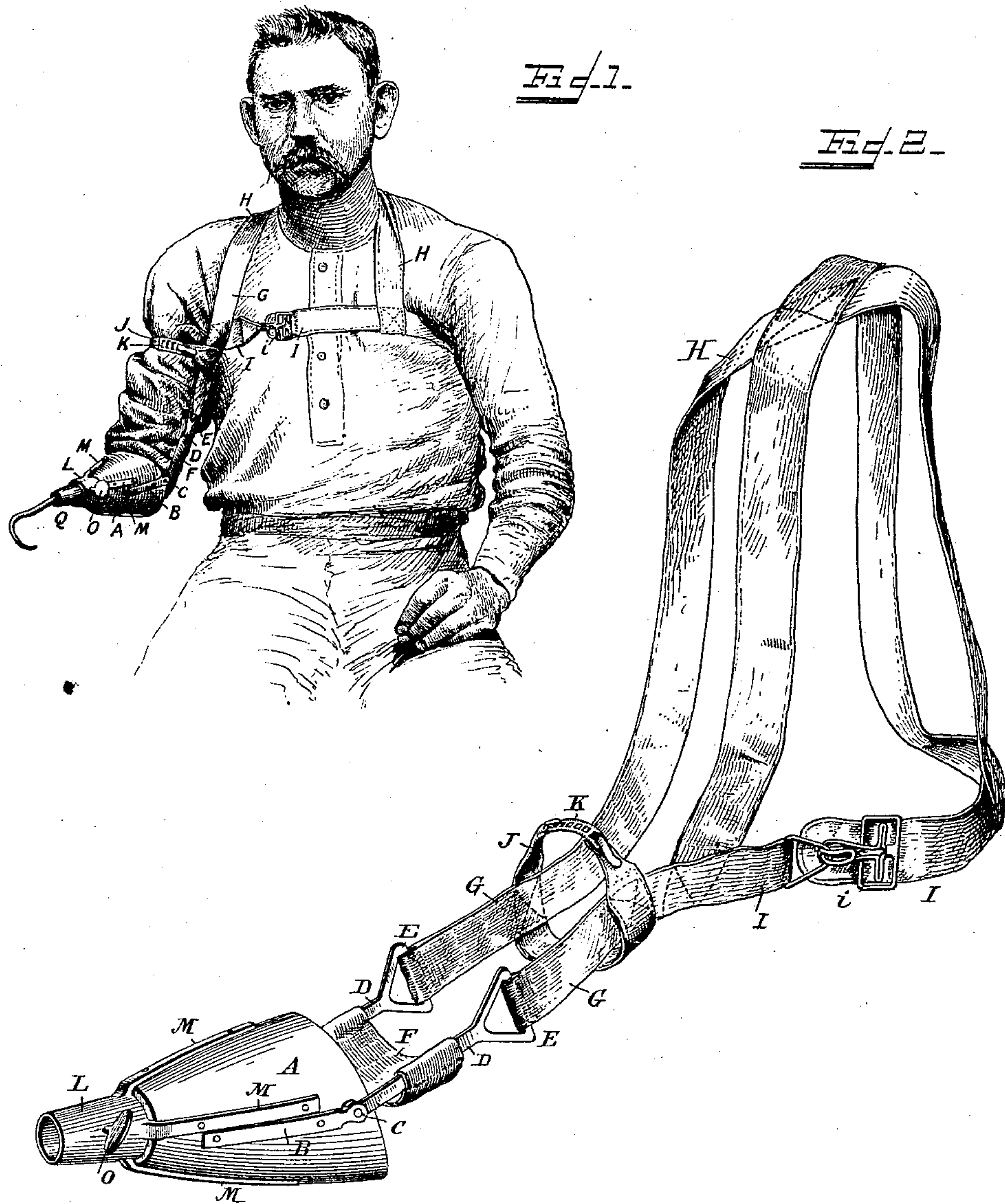
(No Model.)

2 Sheets—Sheet 1.

J. E. WORTHAM.  
ARTIFICIAL ARM.

No. 483,090.

Patented Sept. 20, 1892.



Witnesses

Chas H. Curand  
D. V. Volkhaupler

Inventor

John E. Wortham

By his Attorneys,

Calhoun & Co.

(No Model.)

2 Sheets—Sheet 2.

J. E. WORTHAM.  
ARTIFICIAL ARM.

No. 483,090.

Patented Sept. 20, 1892.

Fig. 3.

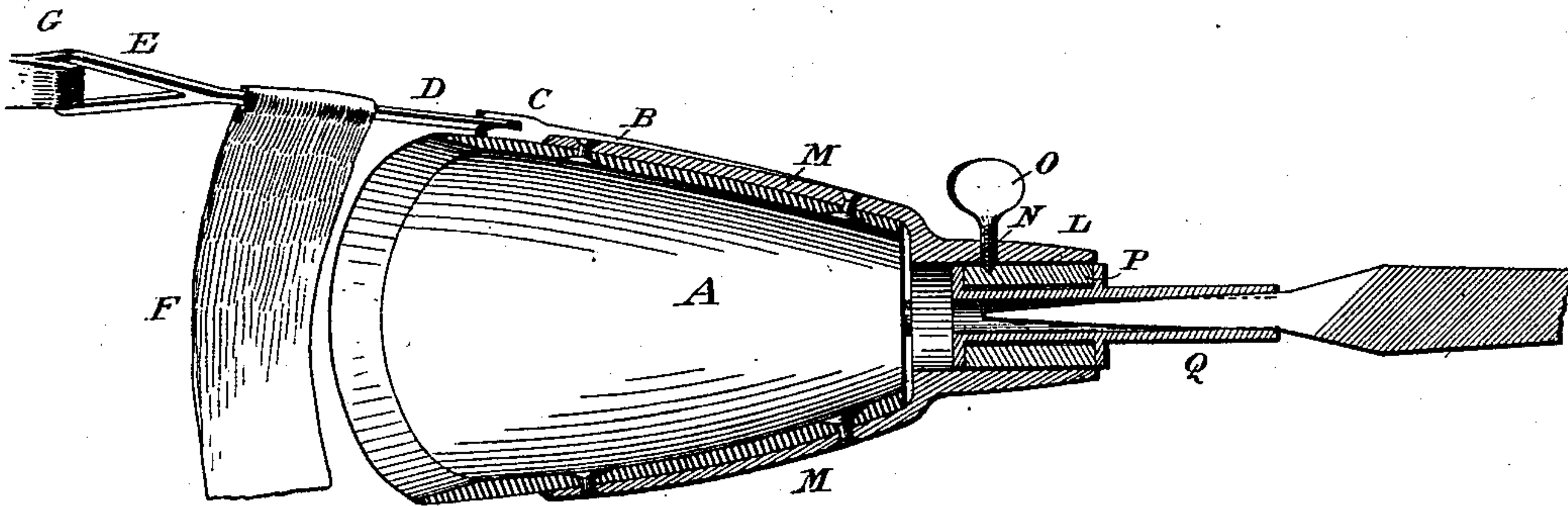
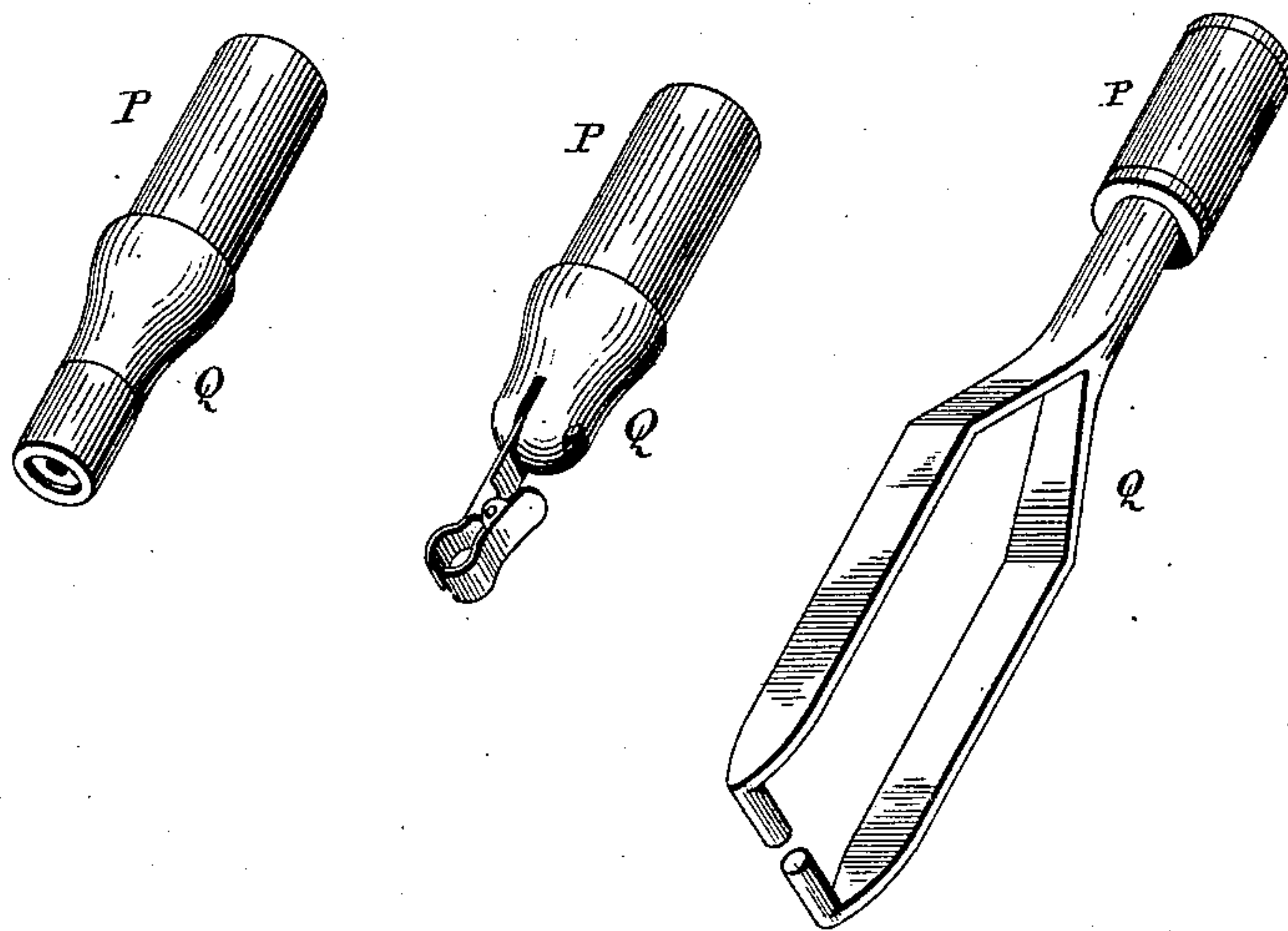


Fig. 4.



Witnesses

*Chas. H. Ourand*  
*A. P. Mohaupter.*

Inventor

*John E. Wortham*

By his Attorneys,

*Calhoun & Co.*



# UNITED STATES PATENT OFFICE.

JOHN E. WORTHAM, OF GRAND TOWER, ILLINOIS, ASSIGNOR OF ONE-HALF  
TO HERBET C. SALLS, OF SAME PLACE.

## ARTIFICIAL ARM.

SPECIFICATION forming part of Letters Patent No. 483,090, dated September 20, 1892.

Application filed February 20, 1892. Serial No. 422,313. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN E. WORTHAM, a citizen of the United States, residing at Grand Tower, in the county of Jackson and State of Illinois, have invented a new and useful Artificial Arm, of which the following is a specification.

This invention relates to artificial arms; and it has for its object to provide an artificial arm which may be readily attached to the stump of one or both arms which have been removed partially and which by its essential construction and combination will provide a device by means of which the person wearing the same may still employ the stump for every purpose and place it to every use of a whole arm or arms, as the case may be.

With these and many other objects in view, which will readily appear as the nature of the invention is fully understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a general view illustrating the artificial arm as applied to the arm and body of a person. Fig. 2 is a perspective view of the same detached from a person. Fig. 3 is a vertical longitudinal sectional view of the same, showing a tool in position therein. Fig. 4 is a detail view of several tools adapted for use in connection with the artificial arm and tool-socket connected therewith.

Referring to the accompanying drawings, A represents an arm-stump socket, which is constructed of leather or other suitable material and is made in a tapering shape, which is designed to conform to the shape of the stump or arm wherever cut and snugly receive the same. Securely riveted or otherwise suitably fastened to opposite sides of the stump-socket A are the opposite straps B, having upper bifurcated ends C, which receive one end of the opposite pivoted arms D, which terminate at their other ends in loops E. The said swinging arms provide for the movement of the forearm-stump when the arm has been cut below the elbow, as illustrated in the accompanying drawings, and also to give to the movements of the fastening-straps connected therewith. A short cross-strap F of ordinary

webbing is connected to each of the opposite arms D and takes under the arm, so as to hold said pivoted arm in position and form a rest for the portion of the arm above the socket. Connected with each of the opposite loops E at the free ends of the pivoted arm D are the securing-straps G, which extend up on both sides of the arm and are formed into the crossed shoulder-straps H, which pass over the shoulders and under the arm-pits, the cross being in the back, and are held tightly to the body by means of the breast-straps I, connected or fastened together by the fastening device J across the breast of the wearer. The straps G are held to the arm and the whole device additionally secured in place by means of the supplemental arm-strap J, secured to said straps G and encircling the arm above the loops E, the same being fastened together by means of the buckle K, fastening on top of the arm.

Secured to the outer reduced end of the arm-socket A is a metallic tubular tool-socket L, which is provided with a series of divergent securing-arms M, which themselves form a socket for the tapered stump-socket A, and are firmly riveted or otherwise suitably fastened thereto, so that the said tool-socket moves with every movement of the stump-socket and the arm-stump therein. The said tool-socket is provided with a threaded perforation N in the body thereof, which receives the set-screw O. The said set-screw works through the said threaded perforation and is adapted to engage the shank P of any one of the divers tool-holders Q. The tool-holders Q, as represented, may be of a variety of forms, according to the tool desired to be used—viz., a handle for a file, a handle for a hook or knife or any other tool that may be fastened therein, a pen-stock holder for holding a writing-pen, and a number of other tool-holders which are not illustrated, but are equally as well adapted for use in connection with the artificial arm, according to the work desired to be done.

It is thought that the construction and many uses of the herein-described artificial arm are apparent without further description.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—



1. In an artificial arm, the combination of a stump-socket, opposite swinging arms pivoted to said stump-socket, fastening-straps connected with the swinging ends of said arms and having crossed shoulder portions secured over the shoulders and to the body of the wearer, and a tool-socket secured to the tapered end of said stump-socket, substantially as set forth.
2. In an artificial arm, the combination of a stump-socket, opposite fastening-straps connected with opposite sides of said socket and having crossed shoulder portions taking over the shoulders and fastened across the breast of the wearer, an arm-strap secured to said opposite straps and fastened around the arm, and a tool-socket secured to the tapered end of said stump-socket, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN E. WORTHAM.

Witnesses:

M. A. EVANS,

H. C. SALLS.