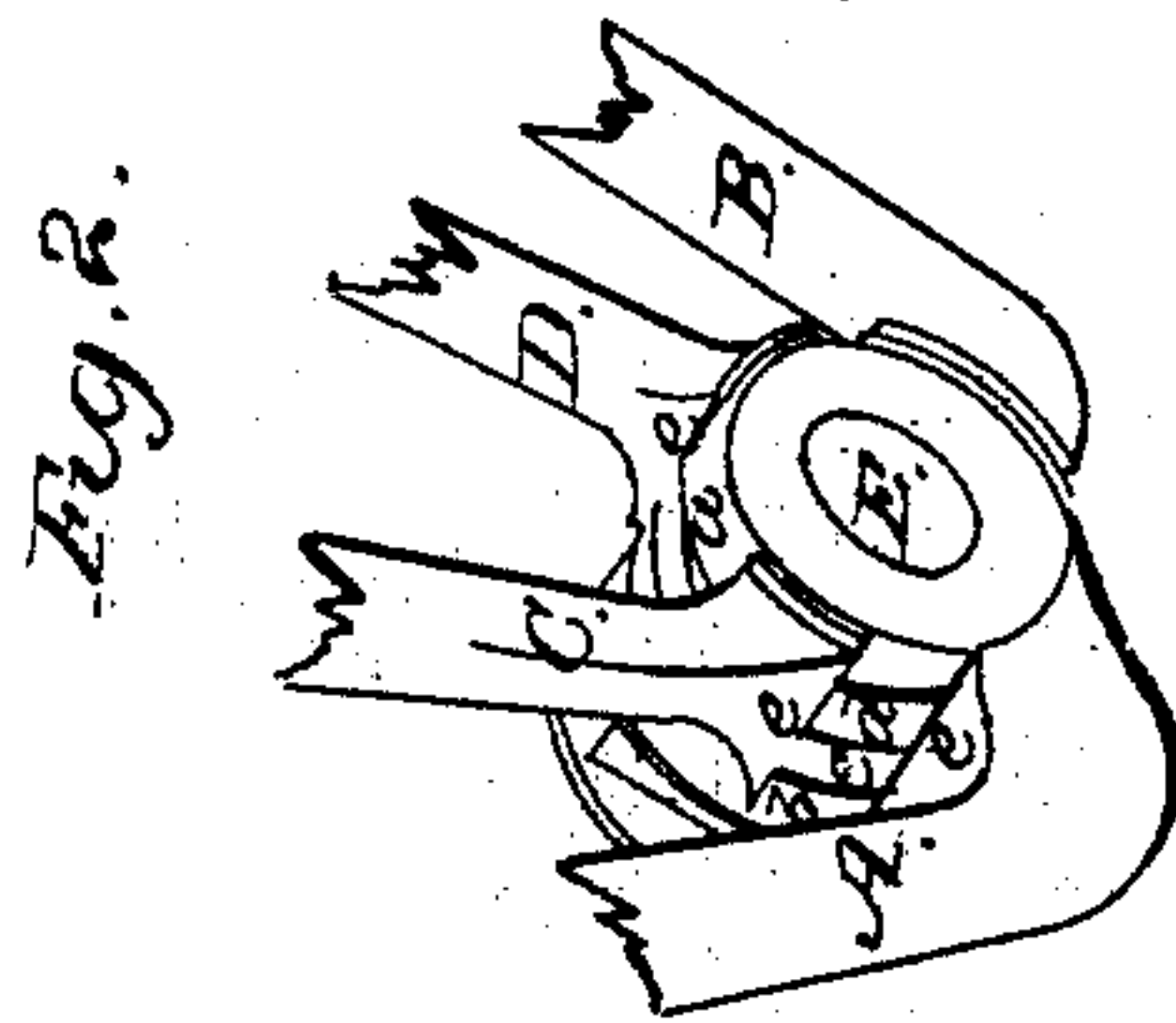
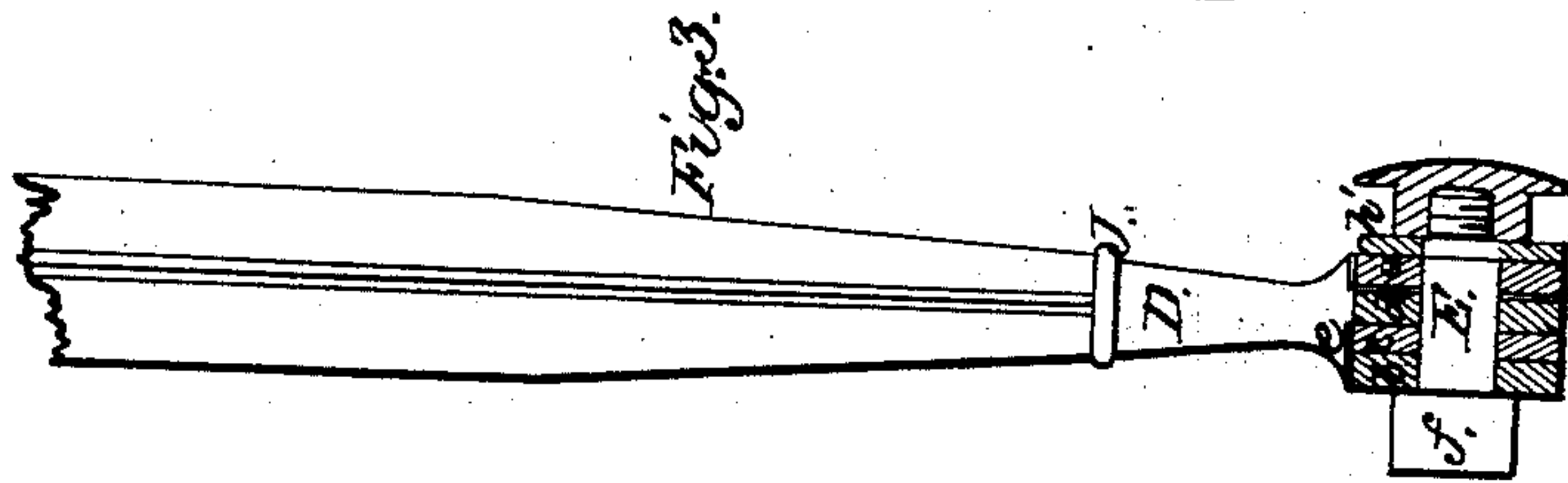
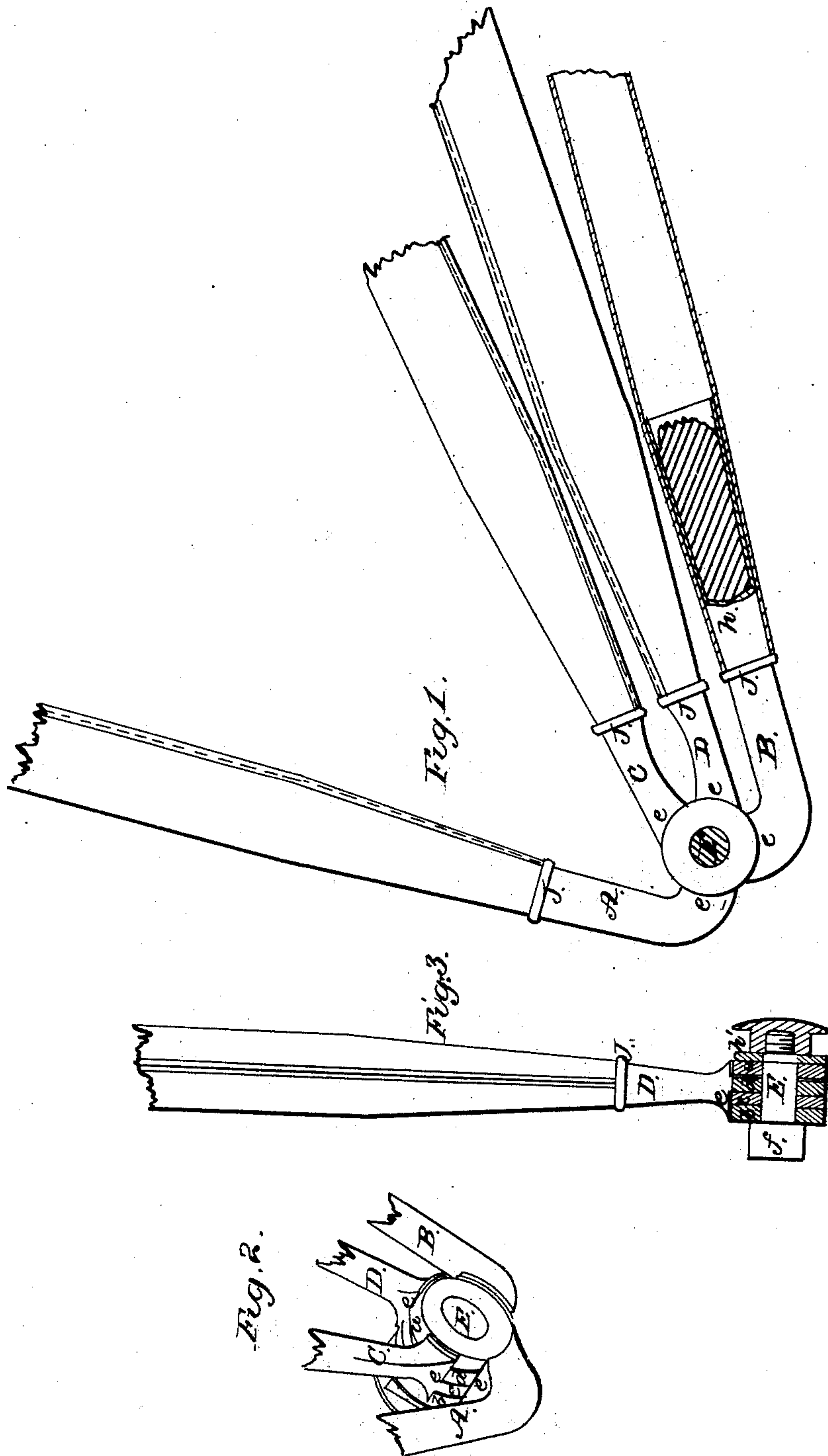


SHELTON & TUTTLE.

Carriage-Top.

No. 18,992.

Patented Dec 29, 1857.



UNITED STATES PATENT OFFICE.

A. C. SHELTON AND BYRON TUTTLE, OF PLYMOUTH, CONNECTICUT.

IMPROVEMENT IN JOINTS FOR CARRIAGE-TOPS.

Specification forming part of Letters Patent No. 18,992, dated December 29, 1857.

To all whom it may concern:

Be it known that we, A. C. SHELTON and BYRON TUTTLE, of Plymouth, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Joints for Calash Carriage Tops and the Mode of Securing the Bows Thereto; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of our improvement. Fig. 2 is a perspective view of the same. Fig. 3 is a vertical section of the same, the plane of section bisecting the joint longitudinally with its pintle or bolt.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in providing the lower end of the calash-arms with circular plates and shoulders, in the manner and for the purposes hereinafter set forth.

To enable those skilled in the art to fully understand and construct our invention, we will proceed to describe it.

A B C D represent four arms constructed of metal, cast or wrought. The lower ends of the two arms A B are bent so as to form right angles with the outer portion and a circular plate is formed at the end of the bent portion of each arm. (See Figs. 2 and 3, in which *a* represents the plate of arm A and *b* the plate of arm B.) The inner ends of the two arms C D are nearly in line with the outer ends. These arms have circular plates formed on their inner ends. These plates are both shown in Figs. 2 and 3, *c* representing the plate of arm C, and *d* representing the plate of arm D. The plates of the several arms are of equal diameter. They are placed side by side and a pintle or bolt E passes through their center. The inner end of each arm has a shoulder *e* formed on it, and these shoulders extend the whole width of the several plates, as shown clearly in Figs. 2 and 3.

One end of the pintle has a head *f* formed

on it, and the opposite end is provided with a screw-thread, on which a nut *g* is fitted.

The plates of the arms are allowed to turn freely on the pintle E, and a washer *p* is placed on the pintle, said washer being interposed between the plate *a* and nut *g*, as shown in Fig. 3.

The outer ends of the arms A B C D have sockets *h* formed on them. One of these sockets, the one on arm B, is shown clearly in Fig. 1. The sockets are of slightly taper form and are made sufficiently long to receive and firmly hold the ends of the bow *i*. The lower ends of the sockets at their junction with the arms have beads *j* formed on them, one on each.

The bows *i* are covered with patent leather, cloth, or other material, and in consequence of having the bows fitted in the sockets *h*, as shown, the covering may be neatly adjusted on the bows and made to extend down as far as the beads *j* at the lower ends of the sockets, making a very neat and finished appearance.

It will be observed that the plates *a b c d* form, when combined together, a barrel, and that the shoulder *e* of each arm rests upon and extends across the entire length of said barrel. The shoulders *e* are thus made to form a wide base for the arms, so that any injury from a lateral movement of the arms is impossible.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

Providing the lower end of the arms A B C D with circular plates *a b c d* and shoulders *e*, said plates being so arranged as to constitute a barrel, over which the shoulders *e* may move, said shoulders giving support to the arms A B C D, all substantially as described.

A. C. SHELTON.
BYRON TUTTLE.

Witnesses:

JAMES E. SMITH,
A. D. WELLS.