

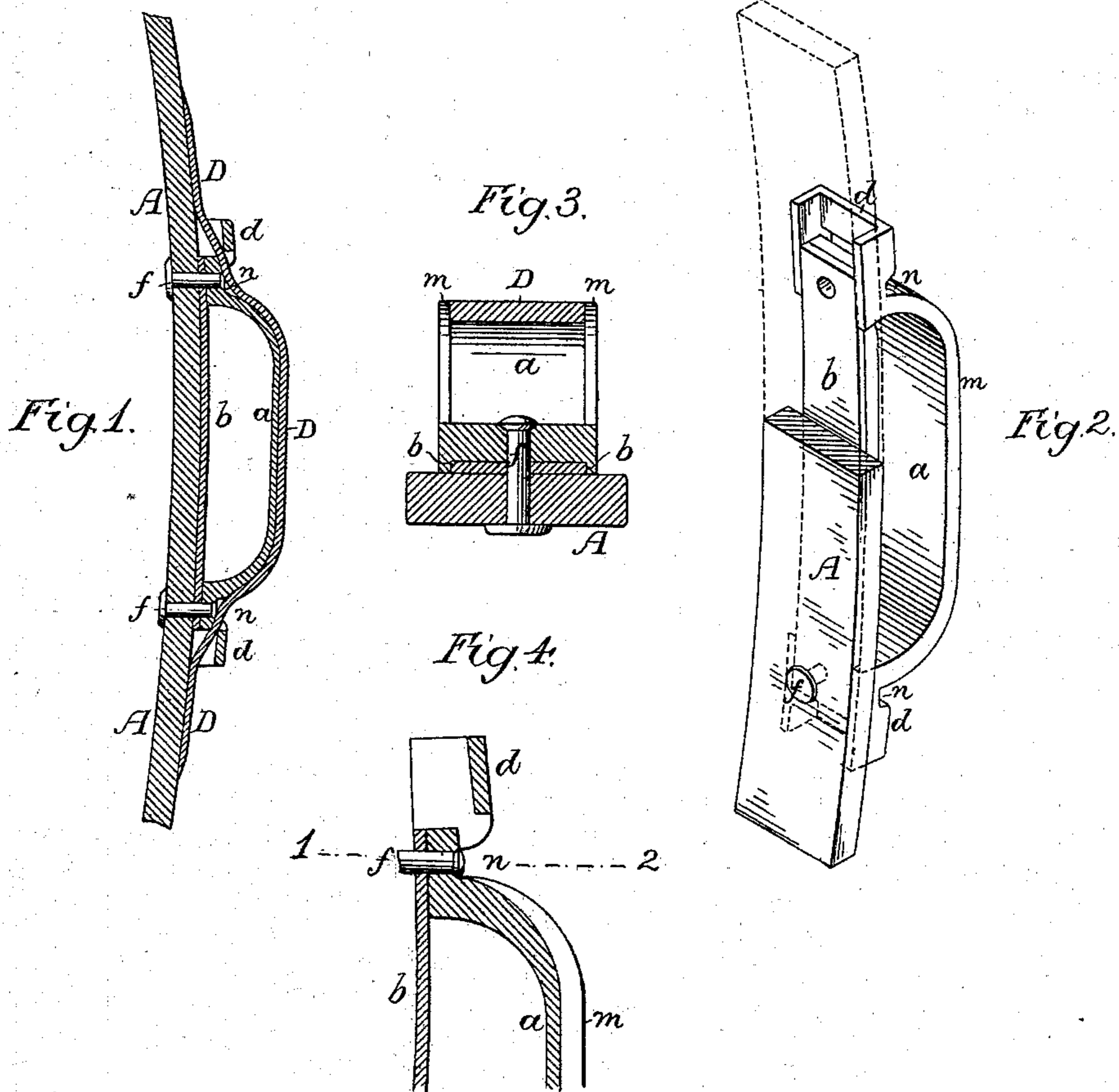
(No Model.)

C. A. BROOKS.

TRACE CARRIER

No. 274,712.

Patented Mar. 27, 1883.



Witnesses
James J. Tobin
Harry Smith

Inventor
Charles A. Brooks
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UNITED STATES PATENT OFFICE.

CHARLES A. BROOKS, OF LENOX, IOWA.

TRACE-CARRIER.

SPECIFICATION forming part of Letters Patent No. 274,712, dated March 27, 1883.

Application filed June 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BROOKS, a citizen of the United States and a resident of Lenox, Taylor county, Iowa, have invented certain Improvements in Trace-Supporters, of which the following is a specification.

My invention relates to certain improvements, fully described hereinafter, in the trace-supporter for which I obtained Letters Patent of the United States No. 218,703, dated August 19, 1879.

In the accompanying drawings, Figure 1 is a sectional view of my improved trace-supporter; Fig. 2, a perspective view, partly in section; Fig. 3, a transverse section on the line 1 2, and Fig. 4 an enlarged section of part of the device.

The device comprises the saddle-strap A, the trace-holding loop, and the band D, all occupying the relations to each other described in the said patent, my present improvements relating to the construction of the loop, which, as shown in the drawings, is composed of two parts—namely, the arched plate *a* and the back plate, *b*. The arched plate *a* has formed at each end a loop, *d*, for the reception of the band D, and has also at each end a recess for the reception of one end of the back plate, *b*, the two plates being secured together by rivets *f*, which also pass through the strap A, and serve to secure the loop thereto. The arched plate *a* has on each edge a flange, *m*, the purpose of which is to protect the edges of the band D and strengthen the plate *a*, the continuity of this flange being interrupted near each end of the plate at *n*, so as to permit the use of a hammer for clinching the rivets *f*.

By making the supporter of two plates, *a b*, as described, I am enabled to considerably cheapen the manufacture of the device, as, owing to the fact that the loops *d* are open at the back, the plate *a* can be cast without the

necessity of using cores, and the plate *b* can be either cast or punched out of wrought metal, no expense being incurred in fitting the parts together, as this is effected by the same means which are relied upon to secure the loop to the strap A. This means of attachment is not absolutely necessary, however, as the two plates may be secured by means of bolts or rivets independent of those used for securing the loop to the strap A.

It will be observed that the plate *b* is shorter than the plate *a*, so that it does not project beneath the loops *d*. By thus allowing the loops to remain open at the back the strap D does not have to be bent at so sharp an angle as when the loops are closed at the back, thus lessening the risk of weakening or cracking the strap at the bends, and preventing undue pressure of the loop on the strap. This feature of my invention—that is to say, the open-backed loop—may be adopted with advantage in supporters cast in one piece, as in my former patent.

I claim as my invention—

1. The combination of the straps A and D with a trace-supporter consisting of an arched plate or yoke confined between said straps, and having at each end an open-backed loop, *d*, for the reception of the strap D, as set forth.

2. The combination of the arched plate *a*, having at each end an open-backed loop, *d*, with the back plate, *b*, secured to the arched plate *a* at each end, but contracted in length, as described, so as not to close the backs of the loops, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHAS. A. BROOKS.

Witnesses:

HARRY DRURY,
HARRY SMITH.