

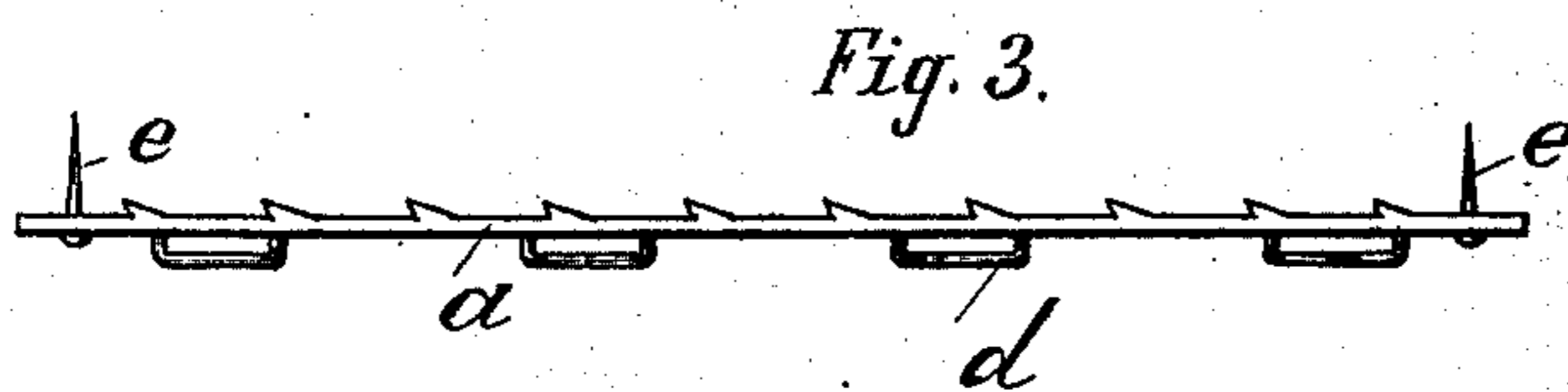
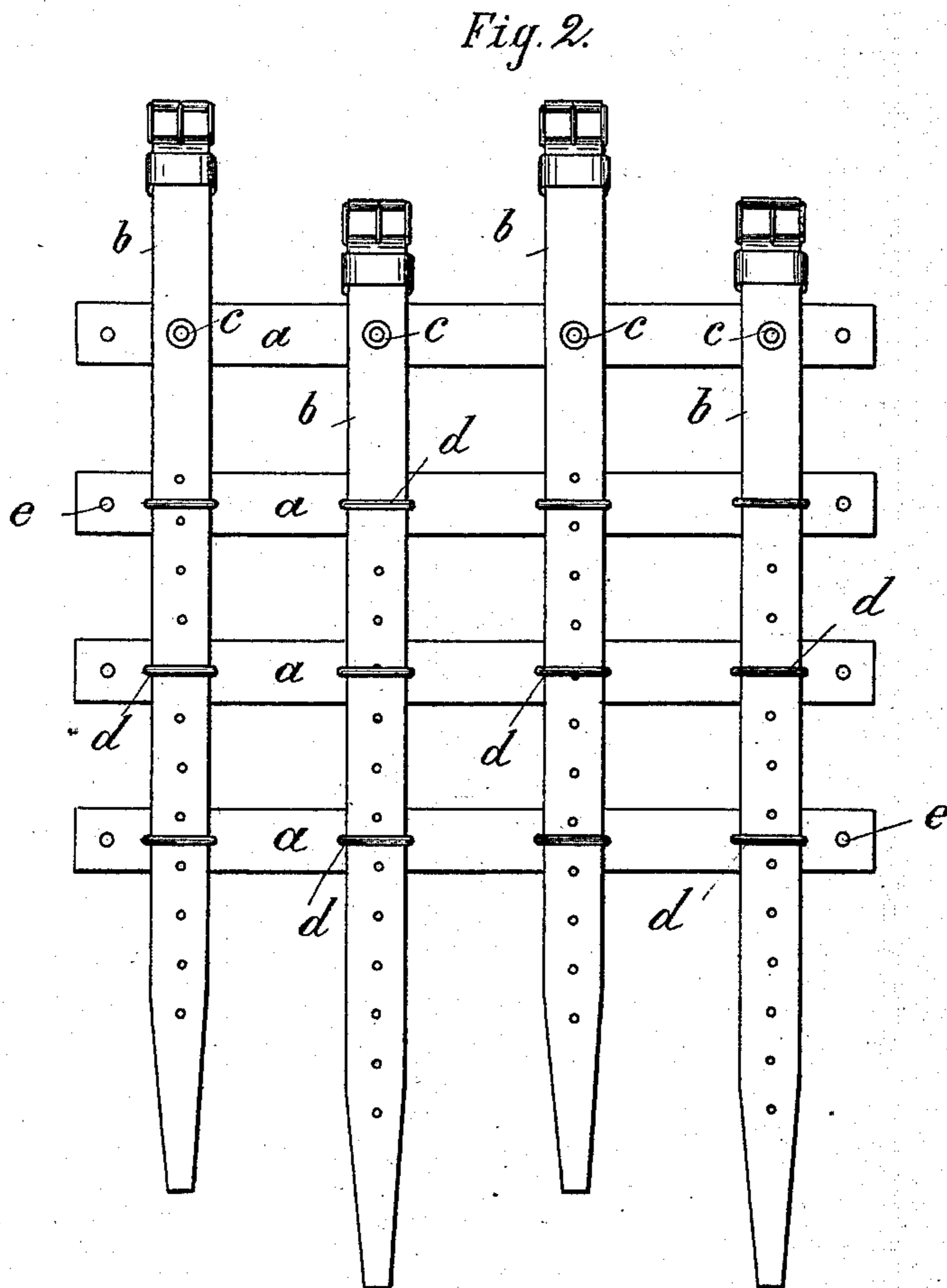
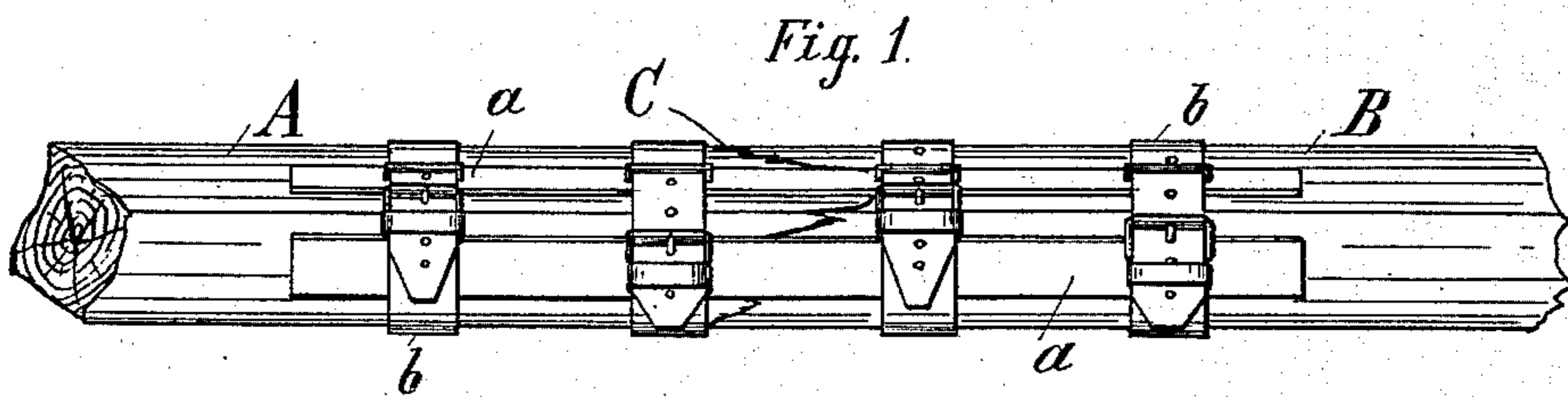
(No Model.)

B. SCHEUER.

DEVICE FOR SECURING BROKEN CARRIAGE POLES, &c.

No. 413,565.

Patented Oct. 22, 1889.



Witnesses
William Miller
Edward Wolff.

Inventor
Bruno Scheuer
by Van Santvoord & Lamb
his attys

UNITED STATES PATENT OFFICE.

BRUNO SCHEUER, OF BERLIN, GERMANY.

DEVICE FOR SECURING BROKEN CARRIAGE-POLES, &c.

SPECIFICATION forming part of Letters Patent No. 413,565, dated October 22, 1889.

Application filed July 11, 1889. Serial No. 317,256. (No model.)

To all whom it may concern:

Be it known that I, BRUNO SCHEUER, a subject of the King of Prussia, residing at Berlin, in the Kingdom of Prussia, Germany, have
5 invented a new and useful Appliance for Securing Fractured Carriage-Poles, Whiffletrees, and the Like, of which the following is a specification.

My invention has for its object to enable
10 the driver of a wagon, carriage, or other vehicle to rapidly and effectively secure together the parts of a fractured pole, whiffletree, and the like, so that it may serve as effectually as if it were unbroken during the remainder of
15 the journey, whereas at present the driver can only bind the parts together in a very defective manner, and is generally obliged to interrupt his journey in consequence thereof.

According to the present invention, I employ
20 for the above purpose a combination of metal bars provided with spikes and loops, with a series of flexible straps with buckles or other fastenings so arranged at a right or other angle to the bars that on the driver wrapping
25 the straps round the pole at the fracture the bars are applied thereto in a direction parallel to the pole, so that on then driving the spikes of the bars into the pole by blows until the bars lie close against the pole and then
30 drawing the straps tightly round them the fracture will be repaired in the most effectual manner. Thus the advantage of the present appliance over any similar appliance that may have been used before is that, first, the several parts thereof are combined together as a whole, and can consequently be instantaneously applied; secondly, no separate nails or screws are required for fixing on the bars, this being effected by mere blows with a stone
35 or other object at hand, and, thirdly, the securing is effected rapidly and simply by drawing tight the buckles of the straps, instead of by lengthy and insufficient tying with cords.

The said appliance is shown on the accompanying drawings, in which—

Figure 1 shows the same as applied to a broken pole. Fig. 2 shows it opened out, and Fig. 3 shows a side view of one of the metal bars.

The appliance consists of from two to four
50 or more metal bars *a*, on one side of which are formed loops *d d*, through which are passed straps *b*, which may be secured to the one end bar by rivets *c*. On the other face of the bars are fixed or formed spikes *e*, with intervening teeth, if necessary.

At Fig. 1, A and B are the two parts of the pole to be united, being fractured at the point C. The bars *a a* having been applied so as to extend equally to either side of the fracture,
60 the spikes *e e* are driven in and the straps *b* are drawn tightly around and secured by the buckles. The two parts A and B will then be securely held together in the longitudinal direction by the spikes *e*, while they are prevented from being shifted or deflected laterally relatively to each other by the bars *a*, held tightly against them by the straps *b*. The fastening can afterward be as rapidly removed and preserved for future use.

What I claim as new, and desire to secure by Letters Patent, is—

An appliance for securing together the fractured parts of carriage-poles, whiffletrees, and the like, consisting of two or more metal bars
75 *a*, having spikes *e* on one side and connected together by straps provided with buckles *b*, said straps being fixed to one of the bars and passing through loops *d*, formed on the other bars, substantially as herein described.

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

BRUNO SCHEUER.

Witnesses:

B. ROI,

G. HÜLSMANN.