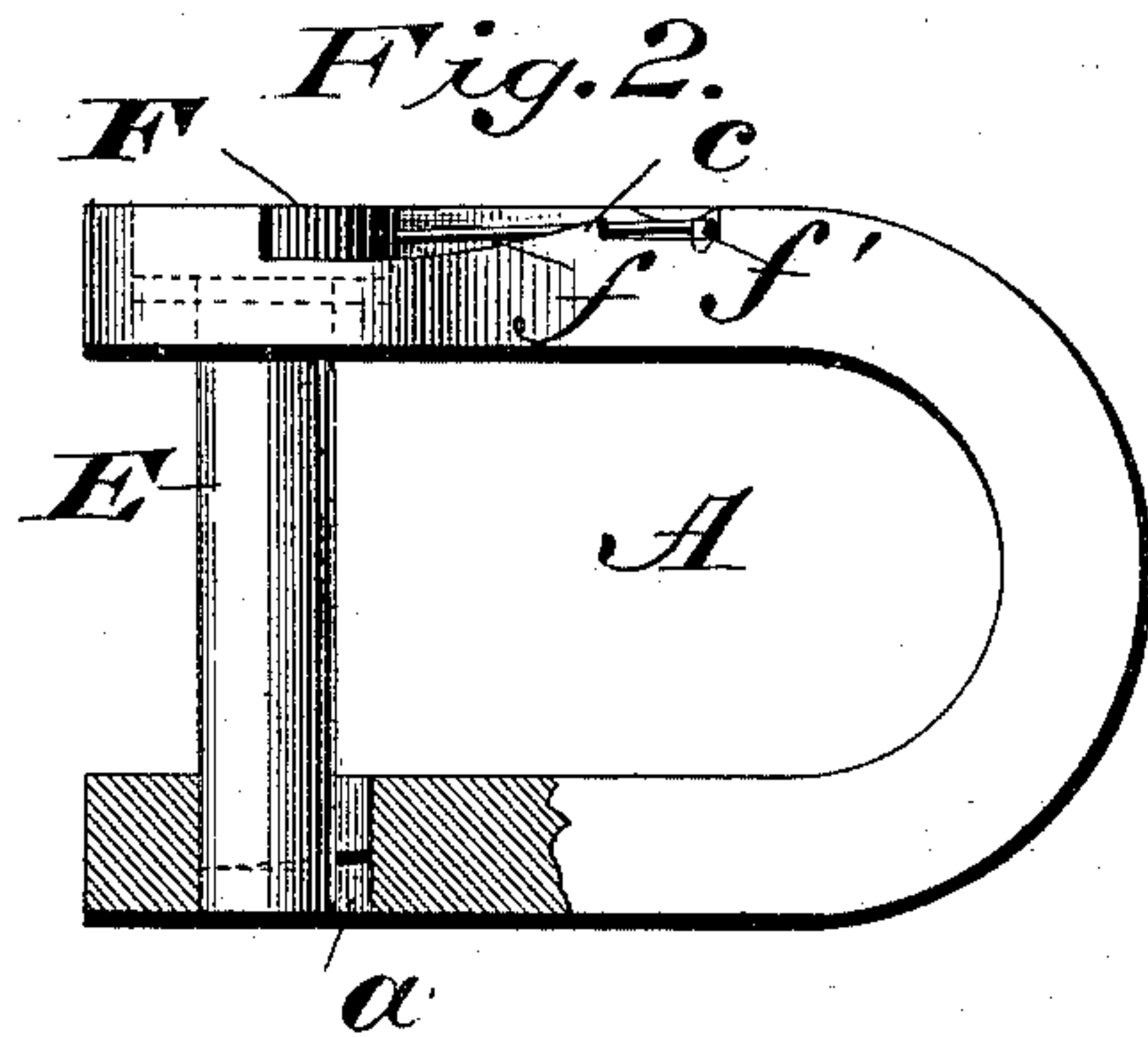
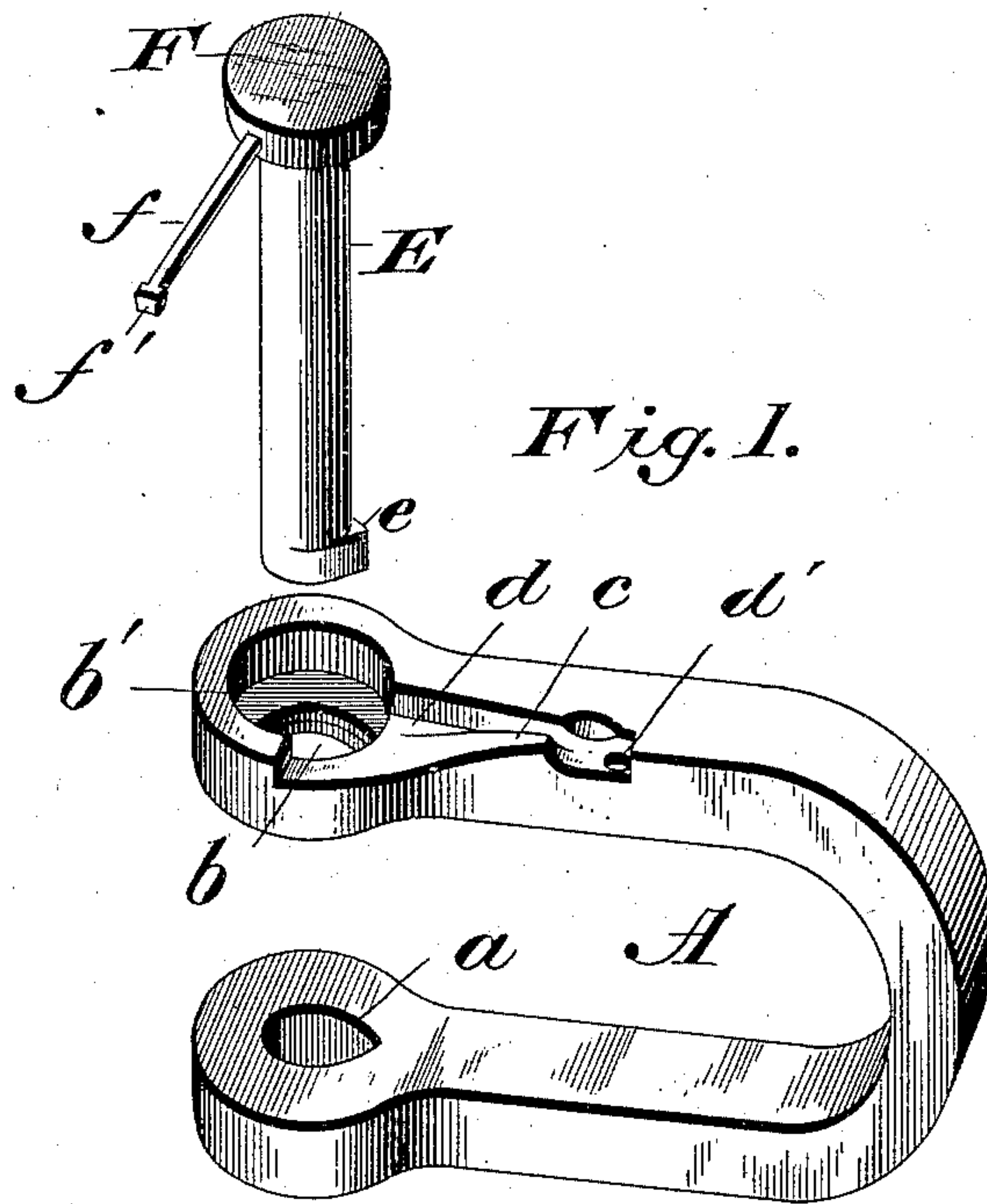


(No Model.)

R. L. KIRBY.
CLEVIS.

No. 474,747.

Patented May 10, 1892.

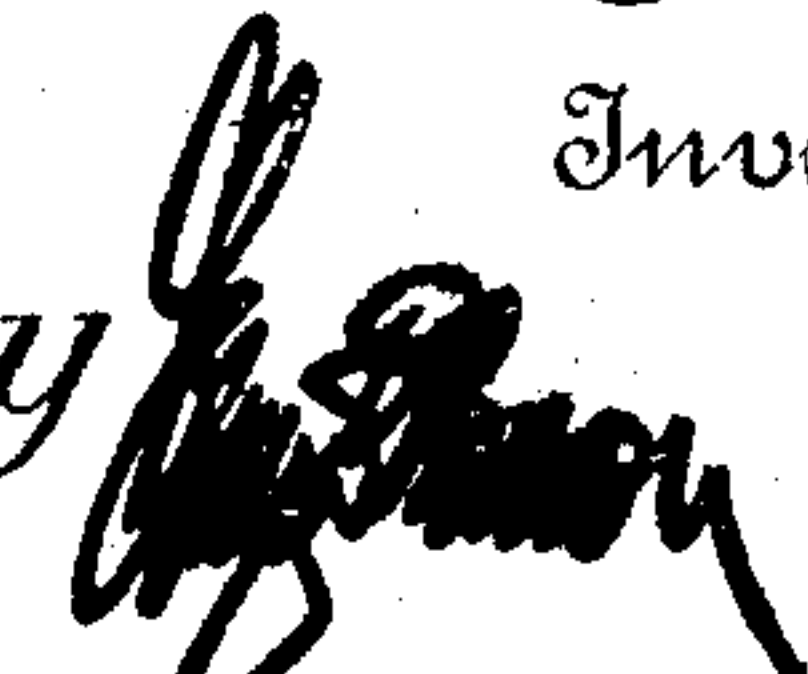


Witnesses

G. S. Elliott.
E. M. Johnson

R. L. Kirby.

Inventor

by 
Attorney

UNITED STATES PATENT OFFICE.

REMEMBRANCE LINDSAY KIRBY, OF POMEROY, WASHINGTON.

CLEVIS.

SPECIFICATION forming part of Letters Patent No. 474,747, dated May 10, 1892.

Application filed June 27, 1891. Serial No. 397,743. (No model.)

To all whom it may concern:

Be it known that I, REMEMBRANCE LINDSAY KIRBY, a citizen of the United States of America, residing at Pomeroy, in the county of Garfield and State of Washington, have invented certain new and useful Improvements in Clevises; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

15 This invention relates to improvements in clevises.

The object of the invention is to provide an improved clevis for doubletrees and other such uses, the parts of which are so constructed that the pin cannot be accidentally detached from the clevis-bow and in which the pin and parts carried thereby will lie flush with the upper and lower surfaces of the bow when in use.

25 In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of the clevis bow and pin, showing the pin detached. Fig. 2 is a side view of the clevis-bow, partly in section, showing the pin in its locked position.

30 A refers to the clevis-bow, the lower member of which is provided near its end with an aperture *a*, said aperture being extended at its rear portion, so that the lug on the pin may pass through the same. The under side of the lower member of the bow is recessed adjacent to the aperture *a*, and against the shoulder formed thereby the lug on the lower end of the pin will bear when turned. This shoulder is slightly inclined in order to draw the head of the pin down when said pin is turned. The upper member of the clevis-bow has an aperture *b*, which corresponds in shape with the aperture *a*, and above said aperture is placed a spring or rubber washer *b'*, which has an aperture corresponding with the aperture *b*. Above the aperture *b* the upper member of the clevis-bow is recessed to receive the head of the pin, and adjacent to this recess the upper surface of the bow is cut away to present an inclined or raised portion *c*, to the inner side of which is a groove *d*, terminating in a depression *d'*. On one side of the groove and

adjacent to the depression *d'* the bow is recessed to provide a space for grasping the spring-bar carried by the clevis-pin. 55

The clevis-pin E is provided with a lug *e* and a head F, and from the side of the head, so as to be located at right angles with the lug, is a spring-bar *f*, the outer end of which is bent downwardly or formed with a depending portion *f'*, which is adapted to enter the depression *d'*. When it is desired to insert the pin in the bow, it is passed through the apertures and held in such a position that the spring-arm *f* will be at right angles to the bow. Now by moving said arm toward the bow the pin will be turned, and the lug, riding upon the inclined shoulder, will draw the head securely down against the spring-washer, and the spring-bar can be pressed over the inclined portion *c*, so that it will lie in the groove *d* and the bent end thereof in the depression *d'*. By this means the clevis-pin is securely locked in place, and there are no projecting parts with which the harness is liable to engage. 75

I am aware that prior to my invention it has been proposed to provide a clevis with a bow having either one or more keyhole-slots, through which passes the clevis-pin and lug formed thereon, and that it is also old to provide a clevis-pin with a spring-bar which engages with projections formed on the clevis to hold the pin from turning, as is shown in patent issued to John Duncan December 30, 1890, and I therefore do not claim such construction, broadly; but 85

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

1. As an improved article of manufacture, a clevis consisting of a bow and pin, the bow portion having at its lower end an aperture with an inclined shoulder and at its upper end a shouldered recess, a portion of the vertical wall of said recess being cut away to provide a groove *d* and an inclined portion *c*, a pin E, having a head F, from which extends a spring-arm, the lower end of the pin having a projection *e* at substantially right angles with the arm *f*, substantially as shown, and for the purpose set forth. 95

2. The improved clevis, consisting of a bow having a keyhole-opening *a*, the base of which has an inclined wall, the upper terminal por-

tion of said bow having an aperture *b* with
vertical walls which is intersected by a groove
d, one side of which is formed by the upward-
ly-inclined portion *c*, a notch *d'*, formed adja-
5 cent to the terminal portion of the recess or
groove, a coupling-pin *E*, having a lug *e*,
formed on the lower end of the same, the head
F, carrying a spring-arm, the outer end of
which has a depending portion *f'*, which is
10 adapted to engage with the recess *d'*, the parts

being organized substantially as shown, so
that when the pin and clevis are connected
there will be no projecting parts above or be-
low the upper and lower surfaces of the bow.

In testimony whereof I affix my signature in 15
presence of two witnesses.

REMEMBRANCE LINDSAY KIRBY.

Witnesses:

ALEX. GILMOUR,

E. W. GIBSON.