

(No Model.)

J. SCHRODER.

HARNESS BUCKLE.

No. 324,733.

Patented Aug. 18, 1885.

Fig. 1.

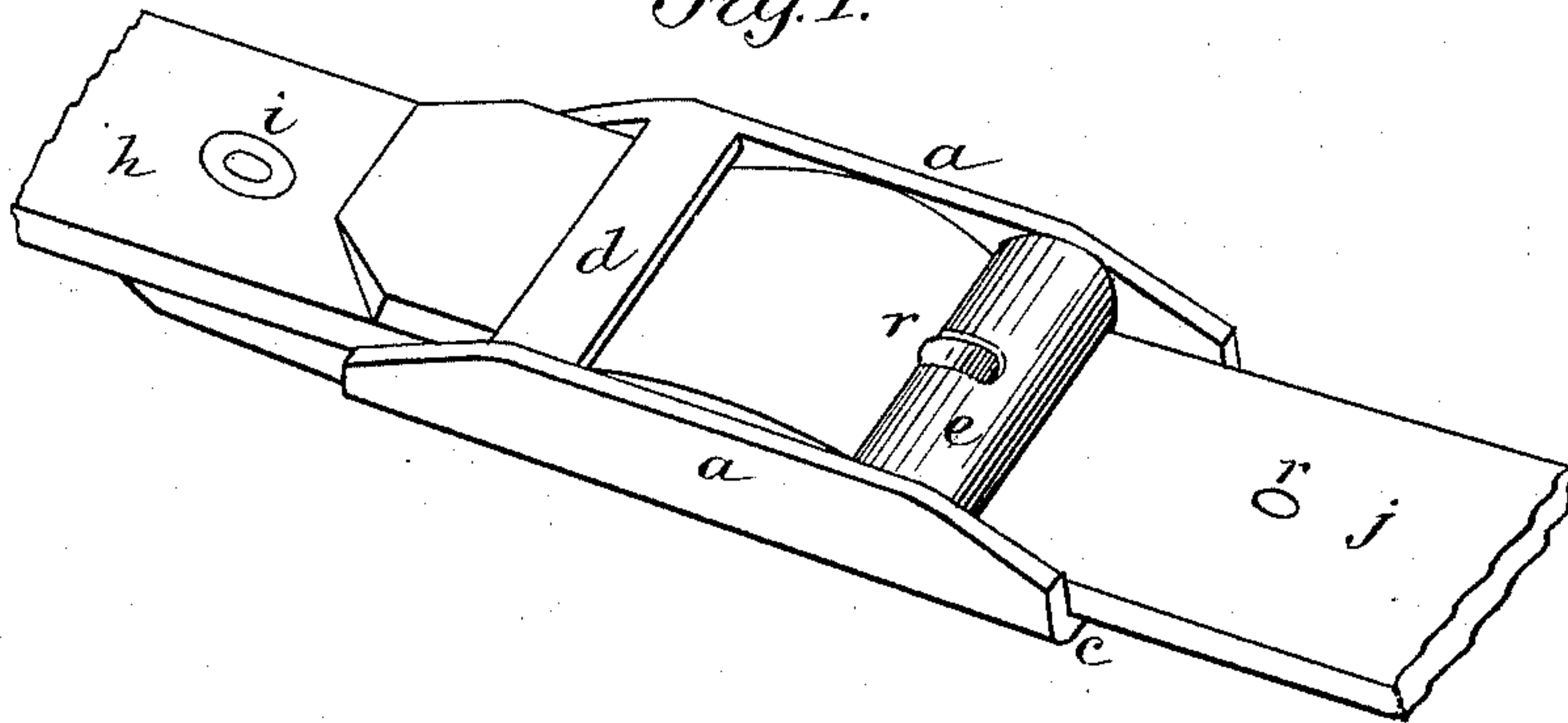


Fig. 2.

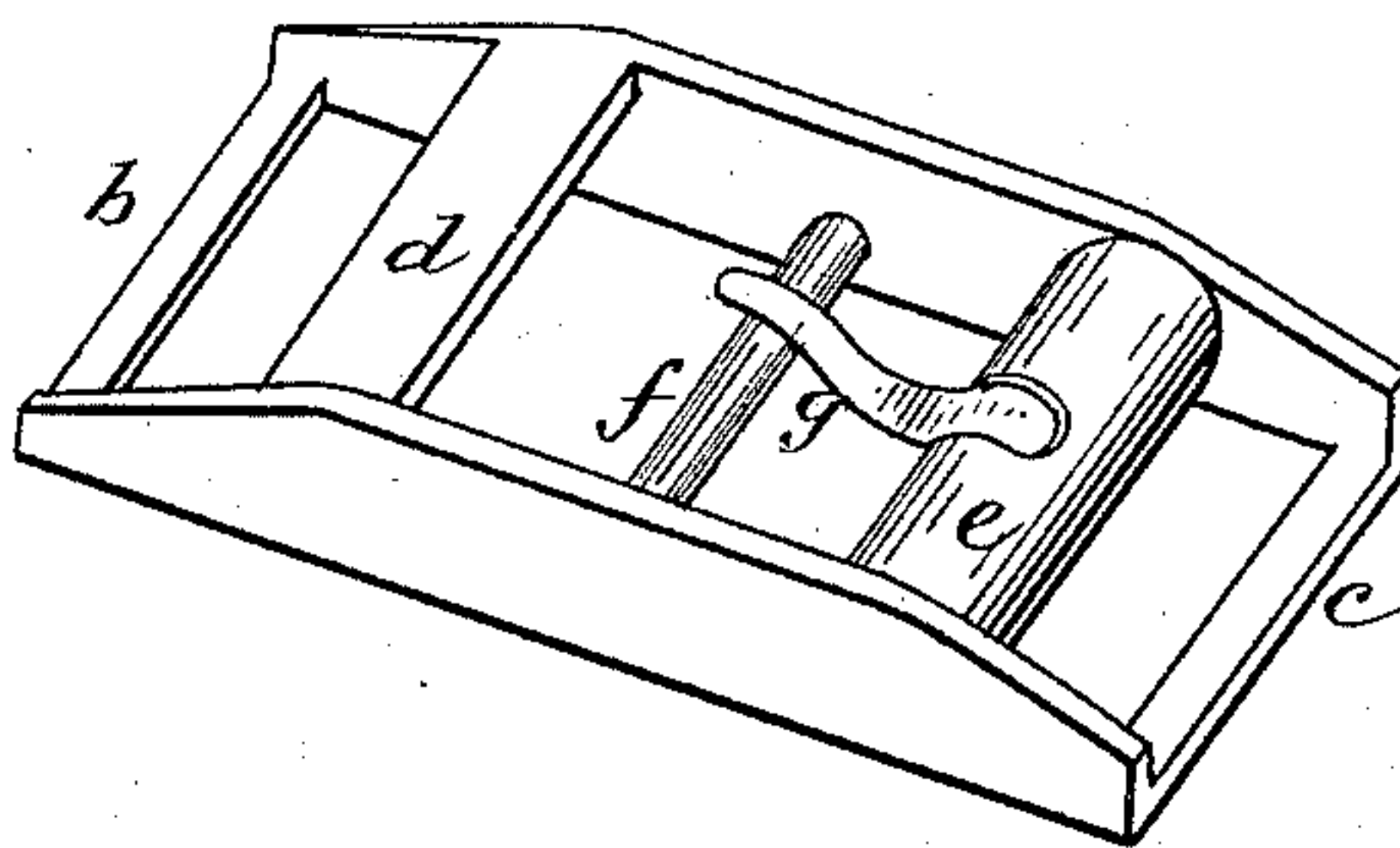
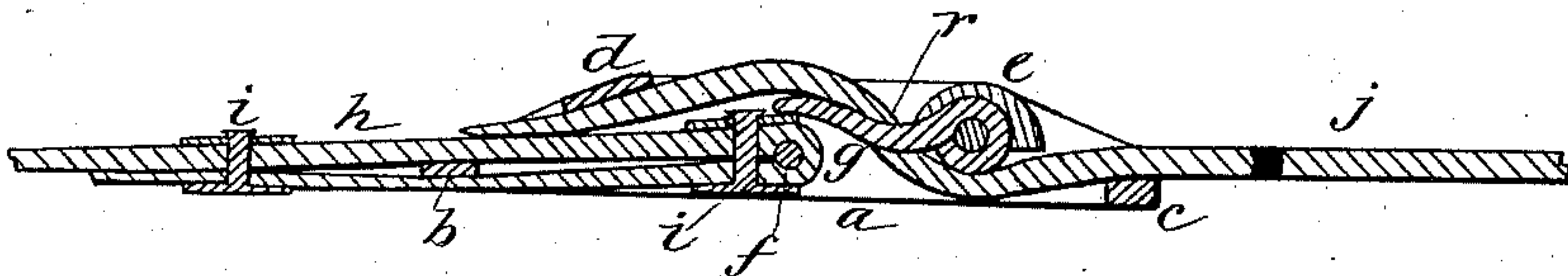


Fig. 3.



Witnesses:
R. E. Chaut
J. E. Tucker

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Attys

UNITED STATES PATENT OFFICE.

JOHN SCHRODER, OF TAMA CITY, IOWA.

HARNESS-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 324,733, dated August 18, 1885.

Application filed June 18, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHRODER, a citizen of the United States, residing at Tama City, in the county of Tama and State of Iowa, have invented new and useful Improvements in Harness-Buckles, of which the following is a specification.

The improvement in my buckle is a construction whereby the tongue is rendered invisible when the strap is secured, and cannot, therefore, be caught by anything connected about a horse or harness. Particularly does my improved buckle avoid catching the horse's tail or in the fly-net, and its construction causes it to lie close and flat upon the strap.

In the accompanying drawings, Figure 1 represents my improved buckle as applied to a strap; Fig. 2, the buckle, and Fig. 3 a sectional view of the buckle and strap.

The frame of the buckle is formed of straight flat side bars, *a*, and five cross-bars, *b c d e f*, disposed in a manner to receive the tongue and the straps to obtain the objects which I have stated. The two end bars, *b c*, are on a plane with the inner edges of the side bars. The two intermediate bars, *d e*, are on a plane with the outer edges of the side bars, and the fifth cross-bar, *f*, is between the outer cross-bars. The outer cross-bar, *e*, has the tongue *g*, which may be secured in any suitable way, but must be of a length to lie over the middle cross-bar.

The buckle is fastened permanently to the strap *h* by being looped over the middle and end cross-bars, *f b*, and secured together between these cross-bars and outside of the end bar by rivets *i i*, so that this strap will lie in the plane of the buckle-frame along its inner side. The strap *j* to be buckled is inserted between the cross-bars *c e*, over the loop-fastened end of the strap *h*, and under the tongue *g*, so that the latter enters the holes *r* of the strap *j* from the outer side of the latter, and is thereby carried under the said strap *j* and

supported upon the looped end of the riveted strap, so that the tongue cannot be pulled under and will be between the straps and lie unseen within the buckle-frame, giving perfect security. When buckled, the end of the strap is passed under the outer cross-bar, *d*, so that the two straps lie flat within the buckle-frame.

This construction, while giving an invisible hinged tongue, also gives the advantage of greater ease and convenience in buckling the strap. In the ordinary loose-tongued buckle the strap is moved from its end inward to raise and free the tongue of the strap, and it is hard to buckle and to unbuckle, while with the invisible tongue the strap is moved toward its end to both buckle and to unbuckle it with ease and quickness. The buckle can be made in any desired style and size.

The tongue is curved, so as to lie between the straps and to easily pass into the strap-hole in being buckled.

I claim—

1. The improved harness-buckle herein shown and described, consisting of the side bars united by the cross-bars *b c d e f*, and the tongue *g*, hinged to one of the intermediate cross-bars, *e*, and extending over the other intermediate cross-bar, *f*, whereby the end of the tongue is concealed between the buckled straps, as set forth.

2. The combination of the frame having the cross-bars *b c d e f*, arranged as described, and the tongue *g*, hinged to the cross-bar *e*, with the straps *h j*, the former riveted around the cross-bar *f*, and the tongue supported thereon between it and the outer strap, *j*, as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN SCHRODER.

Witnesses:

E. L. CARMICHAEL,
W. C. MURRAY.