

(No Model.)

E. A. COOPER.

COACH PAD PLATE.

No. 281,179.

Patented July 10, 1883.

Fig. 1.

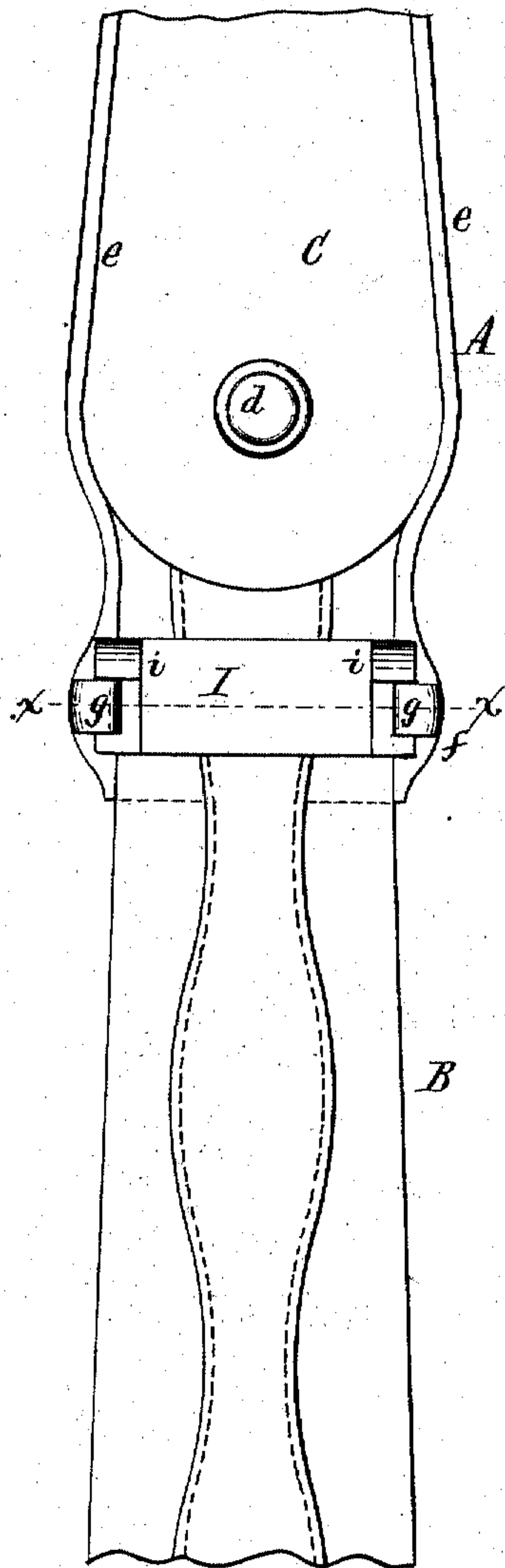


Fig. 2.

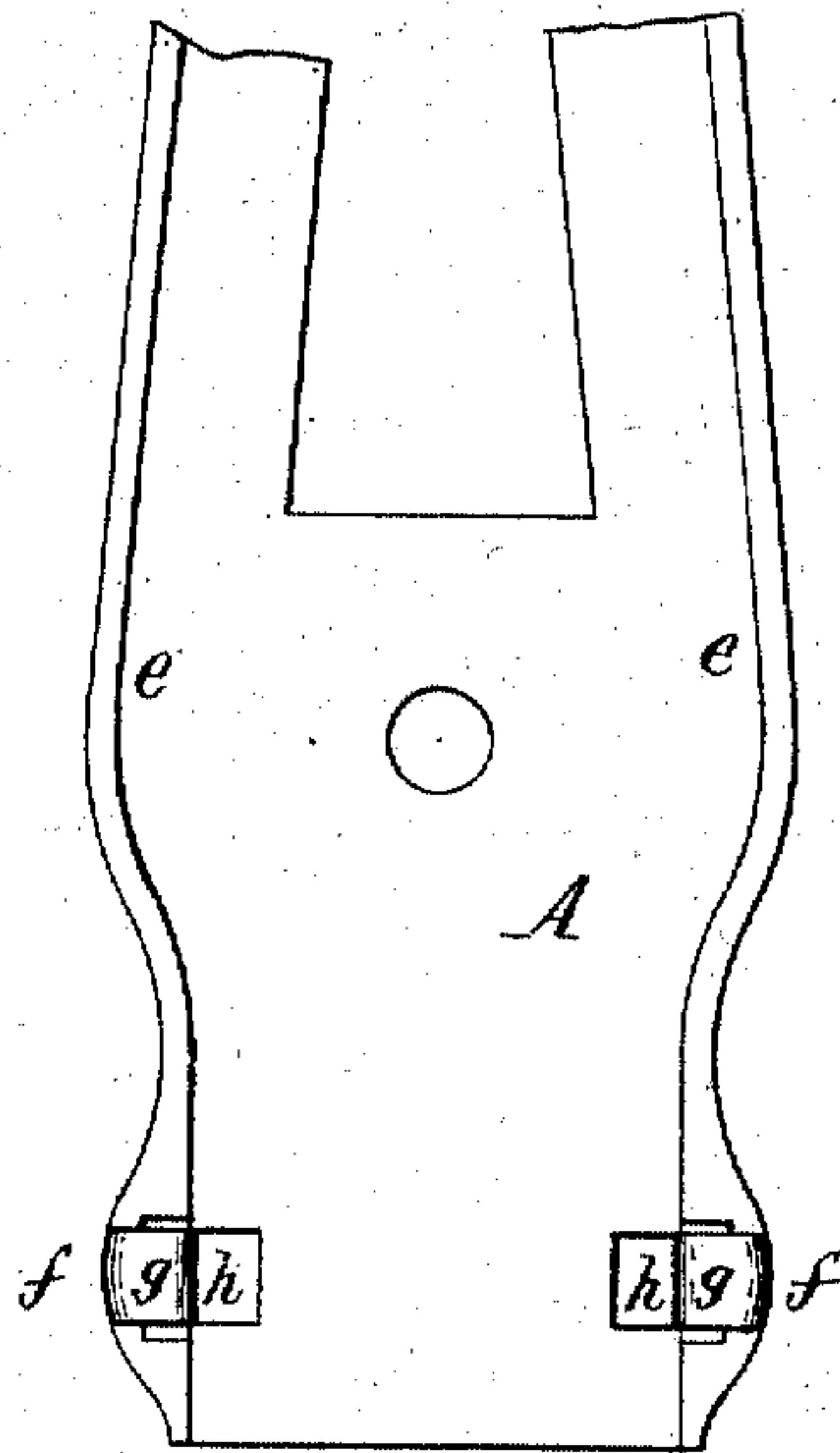


Fig. 3.

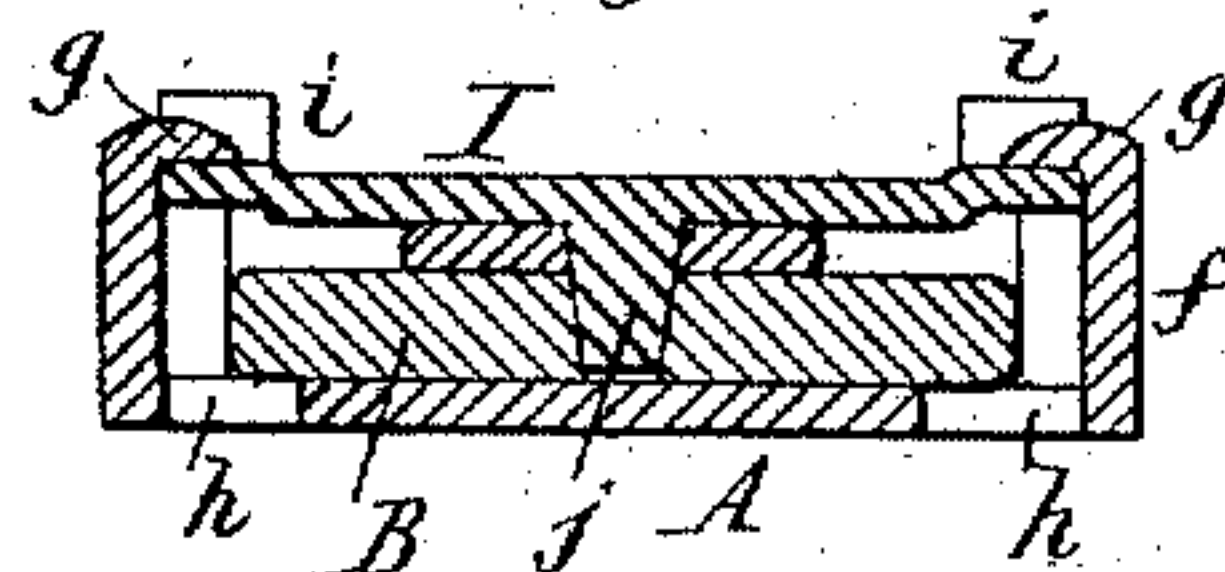


Fig. 4.

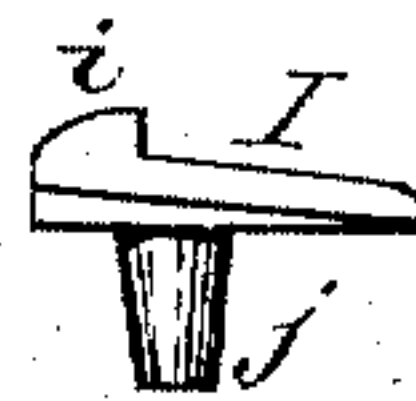
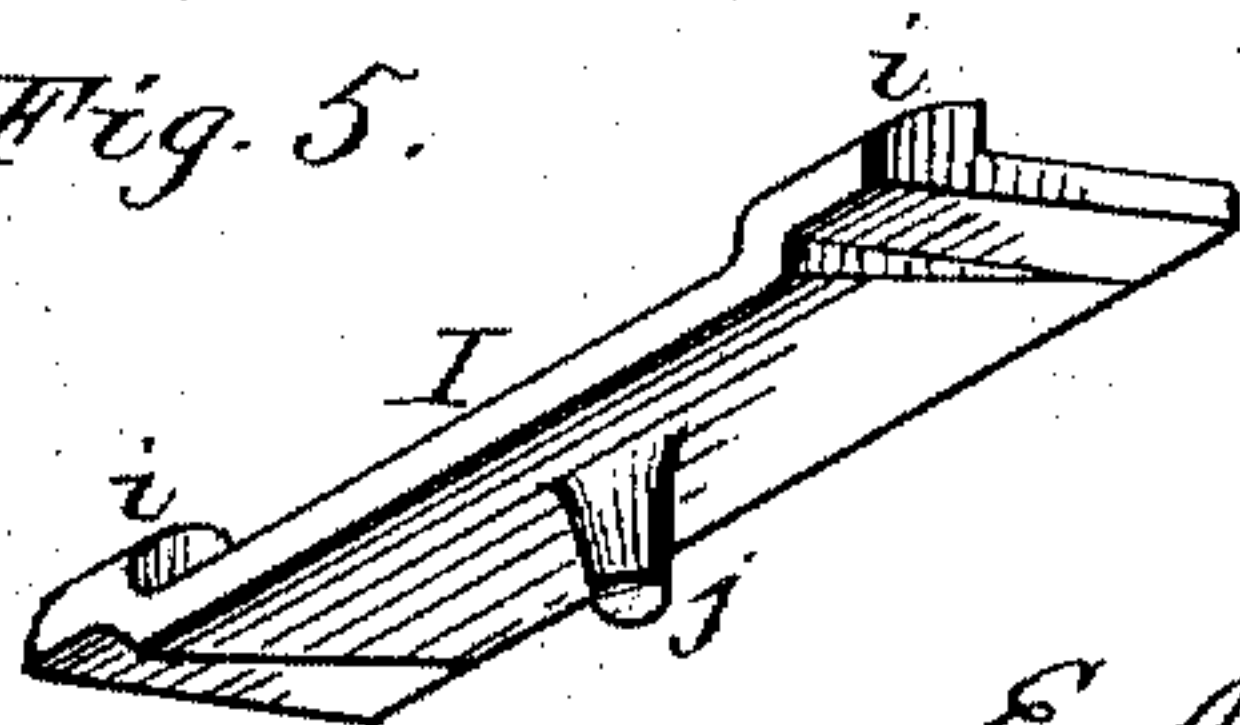


Fig. 5.



Witnesses:

Geo. C. Pitman

Theo. L. Popp.

E. A. Cooper, Inventor.

By Wilhelm & Bonner

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UNITED STATES PATENT OFFICE.

EDWARD A. COOPER, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF TO
EDWARD P. SEARS, OF SAME PLACE.

COACH-PAD PLATE.

SPECIFICATION forming part of Letters Patent No. 281,179, dated July 10, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. COOPER, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Coach-Pad Plates, of which the following is a specification.

This invention has reference to an improvement in that class of devices whereby the skirt is secured to the lower end of the metallic frame or plate of the coach-pad, so as to hold it snugly against said frame or plate.

The object of my invention is to produce a fastening of this kind which shall be simple and strong in construction, and which can be easily cast and readily applied.

My invention consists of the improvements in the construction of the fastening which will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a coach-pad provided with my improvement. Fig. 2 is a side elevation of the lower portion of the pad-frame with the straps removed. Fig. 3 is a cross-section in line *x x*, Fig. 1. Fig. 4 is an edge elevation of the skirt-plate. Fig. 5 is a perspective view thereof.

Like letters of reference refer to like parts in the several figures.

A represents the metallic frame or plate of the pad. B represents the skirt, which is secured to the outer side of the frame or plate A, and C represents the cover, which is applied to the outer side of the skirt on the frame A. All of these parts are secured together by a bolt, *d*, in a well-known manner. The plate A is provided on its outer side with raised side flanges, *e*, which are enlarged near the lower end of the frame A, on both sides thereof, as shown at *f*.

g g are inwardly-projecting lips or hooks cast on the enlarged portions *f* of the side flanges, *e*. The latter are provided with openings *h* underneath or in rear of the lips *g*, which permit the insertion of cores and facilitate the casting of the lips on the frame A. The inner edges of the lips do not project beyond the inner sides of the flanges *e*, and

present, therefore, no projections on which the skirt can catch in applying and removing it.

I represents the skirt-plate, whereby the skirt B is secured to the lower end of the frame A. The plate I is placed against the outer side of the skirt, with its ends under the lips *g*, whereby the plate is held to the frame A. The plate I is made tapering or wedge-shaped downwardly, as represented in Figs. 4 and 5, whereby the skirt is firmly clamped between the plate I and the frame A. The plate I is provided with projecting lugs *i*, which engage against the upper sides of the lips *g*, and limit the downward movement of the plate I in inserting it behind the lips *g*. *j* represents a stud formed on the rear or under side of the plate I, and entering an opening in the skirt, whereby the plate I is prevented from shifting on the skirt, and an additional support or fastening for the skirt is supplied.

In applying my improved fastening, the skirt is slightly raised on the frame above its normal position, and the plate I placed against the front side of the skirt, with its stud *j* in the opening formed in the skirt for its reception. The skirt is then lowered on the frame A and the ends of the plate I introduced behind the lips *g*, and the plate I is drawn downwardly until it is firmly seated behind the lips *g*. By applying the cover C and securing it by means of the bolt *d*, the skirt is prevented from being raised on the frame A, and the plate I, being attached to the skirt by the stud *j*, is also firmly secured in place.

The frame A and the plate I are each readily cast complete, thereby enabling the parts to be produced at comparatively small expense, and the connection of the parts in forming the pad is also very simple, and at the same time strong and reliable.

I claim as my invention—

1. The combination of the pad-plate A, constructed with raised lips or hooks *g*, with the recesses underneath said lips opening inwardly, and a plate, I, inserted underneath said lips, substantially as set forth.

2. The combination, with the frame A, hav-

ing projecting lips or hooks *g*, of the skirt-plate I, having a stud, *j*, cast thereon, substantially as set forth.

3. The combination, with the frame A, having projecting lips or hooks *g*, of the tapering or wedge plate I, provided with a stud, *j*, substantially as set forth.

4. The combination, with the frame A, hav-

ing projecting lips or hooks *g*, of a skirt-plate, I, provided with stops *i* and a stud, *j*, substantially as set forth.

EDWARD A. COOPER.

Witnesses:

JNO. J. BONNER,

CHAS. F. GEYER.

It is hereby certified that in Letters Patent No. 281,179, granted July 10, 1883, upon the application of Edward A. Cooper, of Buffalo, New York, for an improvement in "Coach-Pad Plates," the name of the assignee of one-half interest therein was written and printed "Edward P. Sears;" that said name should have been written and printed *Edwin P. Sears*; and that the proper correction has been made in the files of the case in the Patent Office, and should be read in the grant to make the same conform therewith. .

Signed, countersigned, and sealed this 17th day of July, A. D. 1883.

[SEAL.]

H. M. TELLER,
Secretary of the Interior.

Countersigned:

E. M. MARBLE,
Commissioner of Patents.