

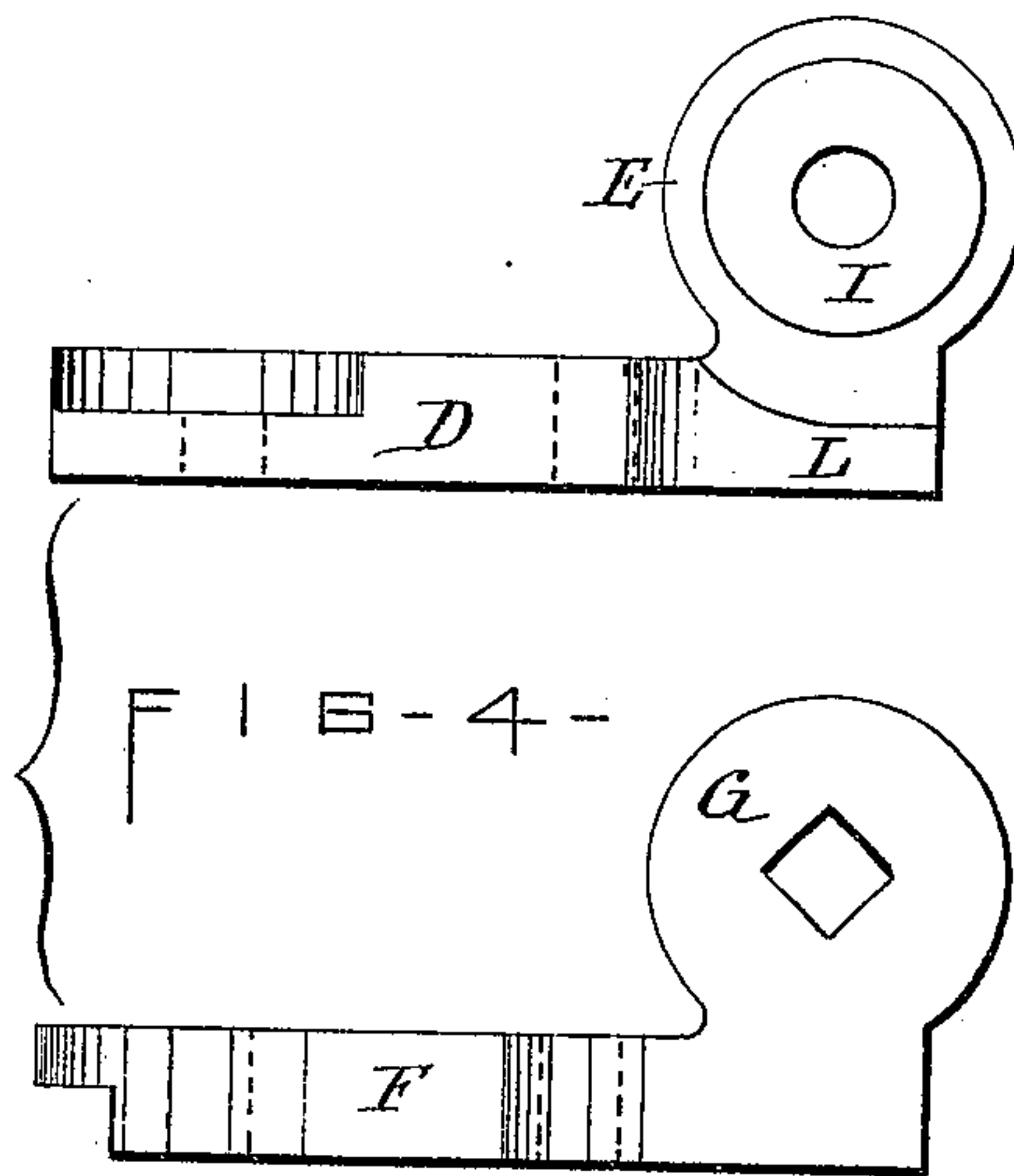
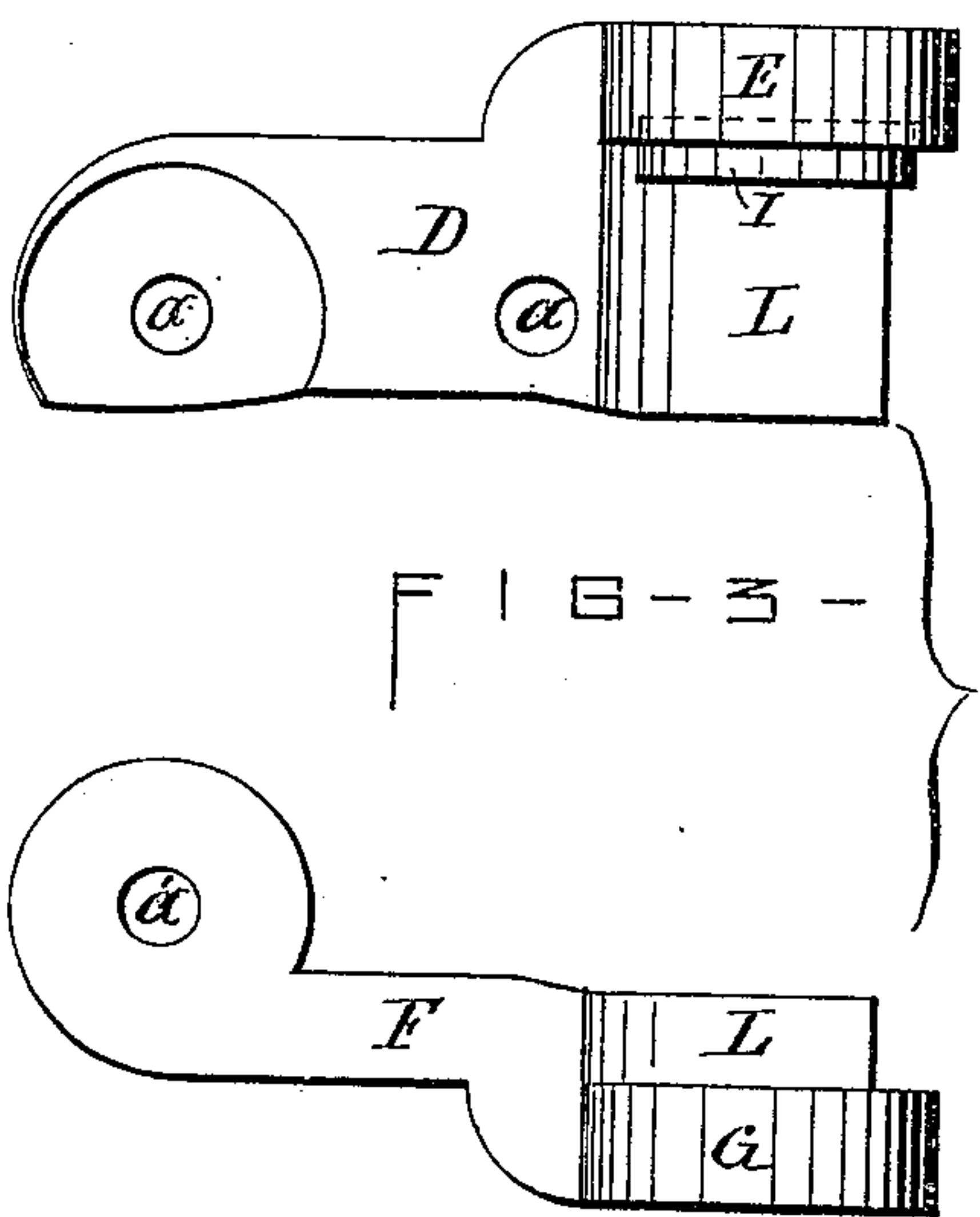
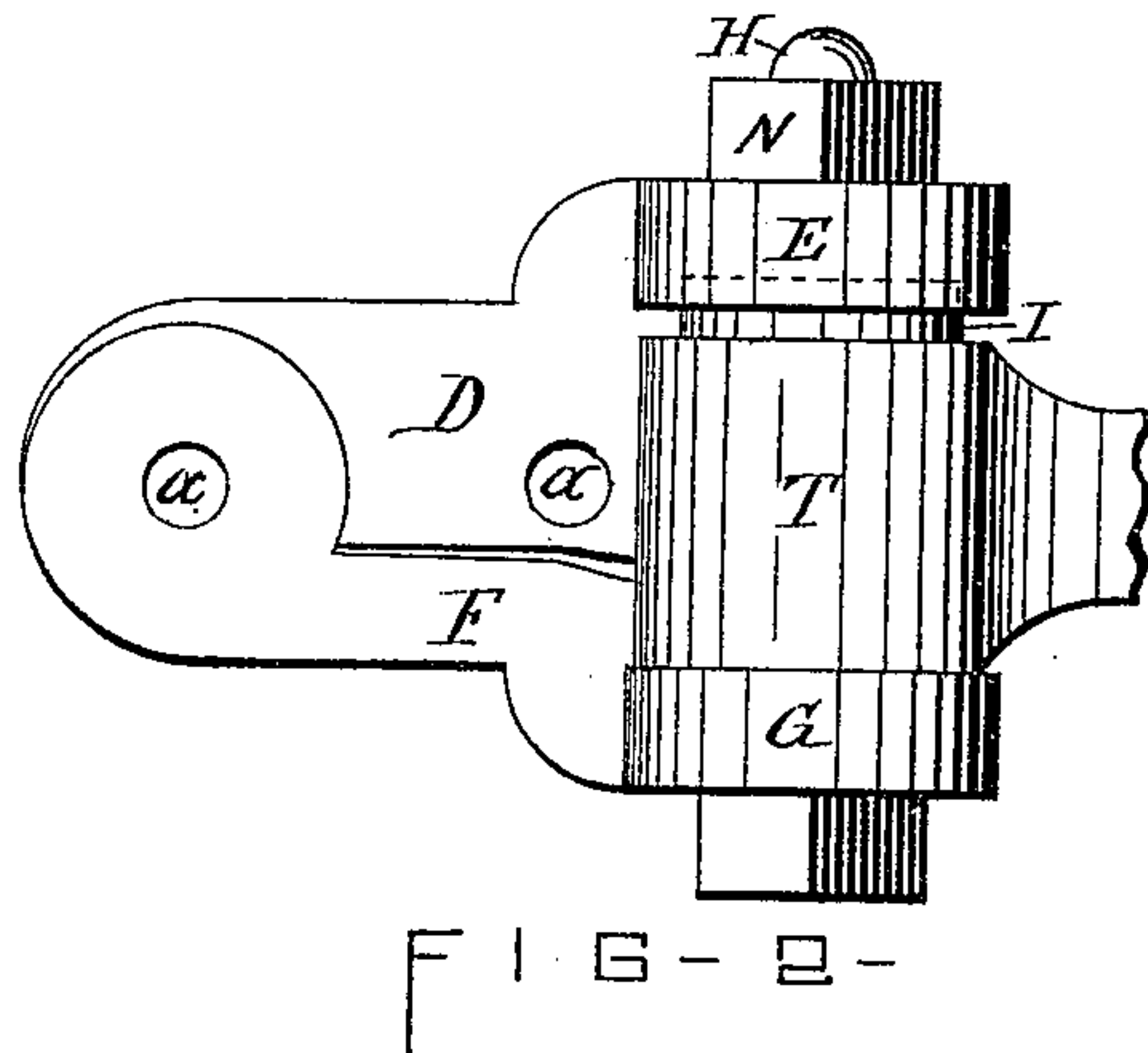
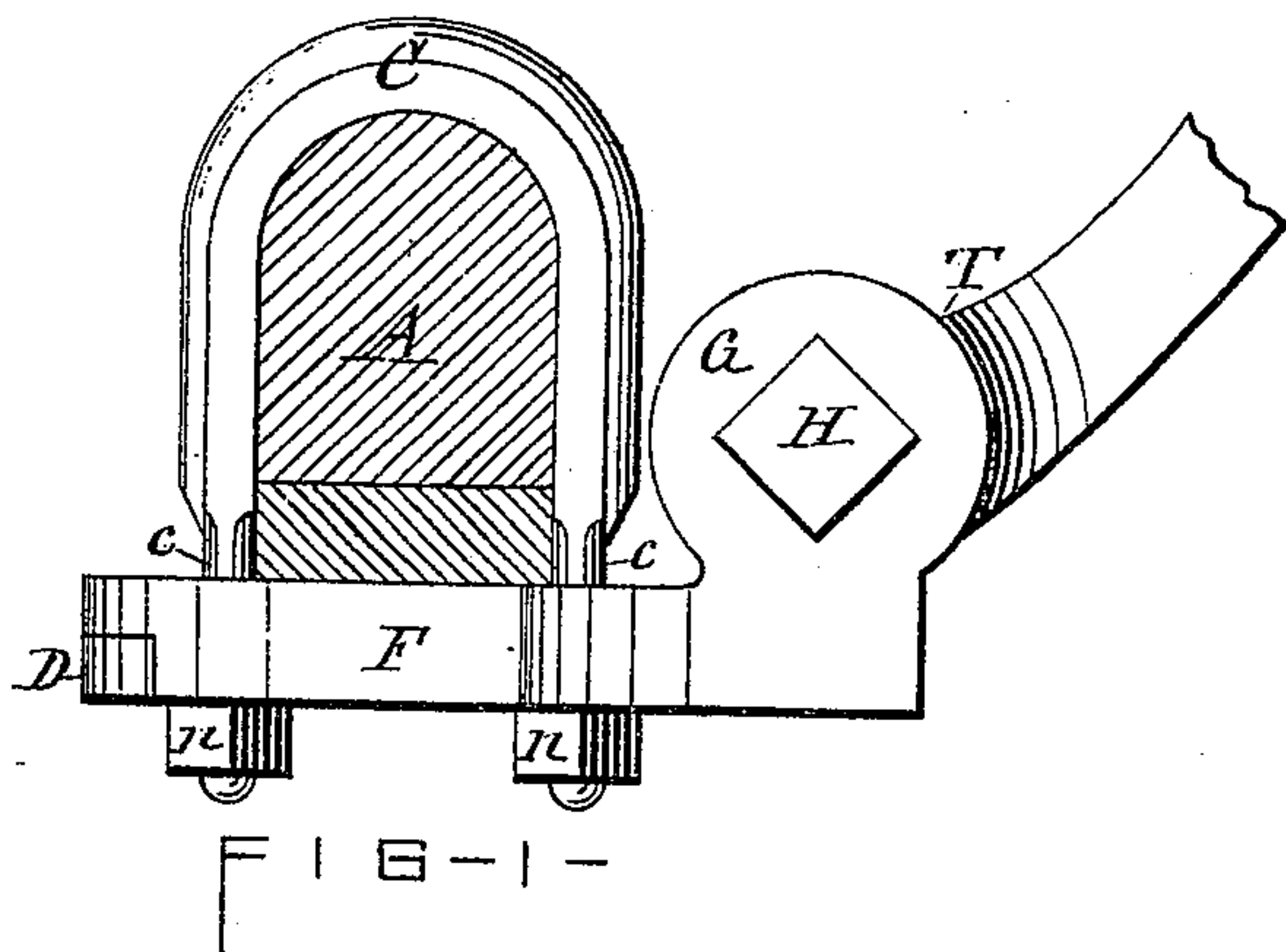
(No Model.)

B. REVOIR & J. L. THOMSON.

THILL COUPLING.

No. 262,314.

Patented Aug. 8, 1882.



WITNESSES -

*Wm. L. Raymond*  
*C. H. Duell*

INVENTORS -

*Battese Revoir*  
*and Judson L. Thomson*  
*per Duell, Laessle & Co.,*  
*their Attorneys*

# UNITED STATES PATENT OFFICE.

BATTESE REVOIR AND JUDSON L. THOMSON, OF SYRACUSE, NEW YORK.

## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 262,314, dated August 8, 1882.

Application filed May 31, 1882. (No model.)

*To all whom it may concern:*

Be it known that we, BATTESE REVOIR and JUDSON L. THOMSON, of Syracuse, in the county of Onondaga, in the State of New York, have  
5 invented new and useful Improvements in Thill-Couplings, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to an improved construction of a thill-coupling designed to be  
10 capable of taking up the wear on the sides of the eyes of the coupling which are in contact with the eye of the thill-iron, and to prevent the rattling of the same.

15 The invention consists essentially in a thill-coupling composed of two eyes flexibly connected and adapted to be secured to the axle of a vehicle, and provided with means for attaching to them the thill-iron and for clamping  
20 the ears against said thill-iron, all as hereinafter more fully explained, and specifically set forth in the claims.

Referring to the annexed drawings, Figures 1 and 2 are side and top views, respectively, of  
25 my improved thill-coupling; and Figs. 3 and 4 are detached top and side views of the eyes of the coupling and the arms or bars by which they are connected to the axle.

Like letters of reference indicate like parts  
30 in all the figures.

C represents an ordinary clip applied to the axle A, and having secured to the extremity of its arms or prongs *c c* a clip-bar, D, extended across the under side of the axle, and provided with holes *a a* for the reception of said  
35 prongs, by means of nuts *n*, applied to the clip-prongs at the underside of the clip-bar. The latter is firmly secured to the axle. The clip-bar D projects forward from the axle, and is provided at its extremity with a rigid upwardly-projecting eye, E, for the reception of the coupling-bolt H.

To the rear end of the clip-bar D is hinged another similar bar, F, having a single hole,  
45 *a'*, through which the rear prong *c* of the clip passes before it receives the nut *n*. The forward extremity of the bar F is provided with a rigid upward-projecting eye, G, having a bolt-hole for the reception of the coupling-bolt  
50 H. Both bars D and F have a forwardly-extended lip, L, by the side of their respective

eye, for the double purpose of bracing the said eyes E and G and for supporting the thill-iron T when introduced between the eyes E and G and before the coupling-bolt is passed  
55 through them, thus greatly facilitating the attachment of the thills to the vehicle, the thill being attached in the usual manner by inserting the coupling-bolt H through the eyes G and E and through the eye of the thill-iron  
60 and applying a nut, N, to the protruding end of the bolt. By tightening the nut N the head on the opposite end of the bolt is caused to draw the hinged bar F, with its eye G, toward the fixed clip-bar D and its eye E, and thus  
65 clamps the thill-iron T between the two eyes and prevents the rattling of the same. In order to still further guard against the rattling, we interpose between the thill-iron and the adjacent  
70 face of either or both of the eyes E G a rubber cushion, I, secured in an annular cavity in the eye. The end of the coupling-bolt H next to the head thereof is squared to fit a square hole in the eye G, so as to prevent said bolt from  
75 turning.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the clip C, of the stationary clip-bar D, provided with the eye  
80 E, the bar F, hinged on the rear prong *c* of the clip and provided with the eye G, and the coupling-bolt H, substantially as described and shown.

2. In combination with the clip C, the stationary clip-bar D, provided with the eye E and  
85 lip L, the bar F, hinged on the rear prong *c* of the clip and provided with the eye G and lip L, and the coupling-bolt H, all constructed and combined substantially in the manner described and shown, for the purpose set forth.

In testimony whereof we have hereunto signed our names and affixed our seals, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State  
95 of New York, this 26th day of April, 1882.

BATTESE REVOIR. [L. S.]  
JUDSON L. THOMSON. [L. S.]

Witnesses:

T. H. TEALL,  
WM. C. RAYMOND.