(Model.) 2 Sheets—Sheet 1.

A. S. ROBINSON.

DEVICE FOR SECURING LEGS TO TABLES.

No. 280,401. Patented July 3, 1883.

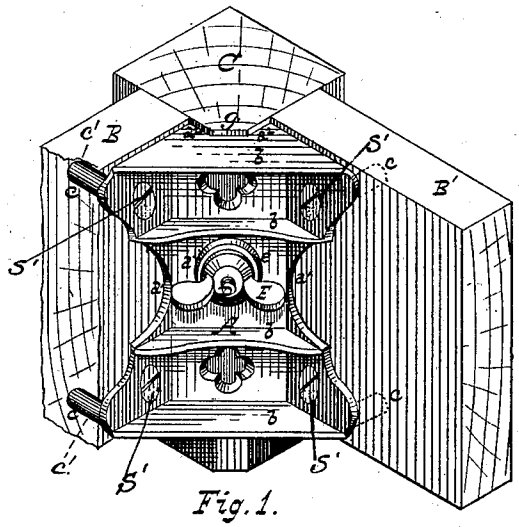


Fig. 1.

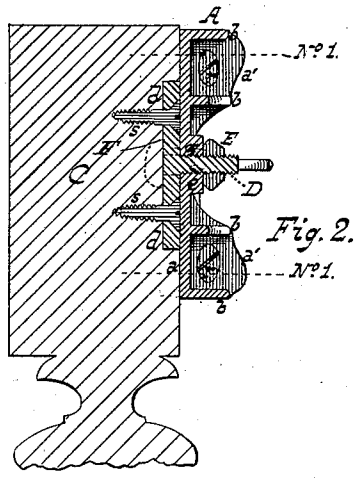


Fig. 2.

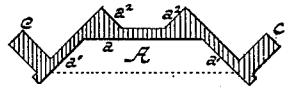


Fig. 3.

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Inventor.

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(Model.) 2 Sheets—Sheet 2.

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Fig. 4.

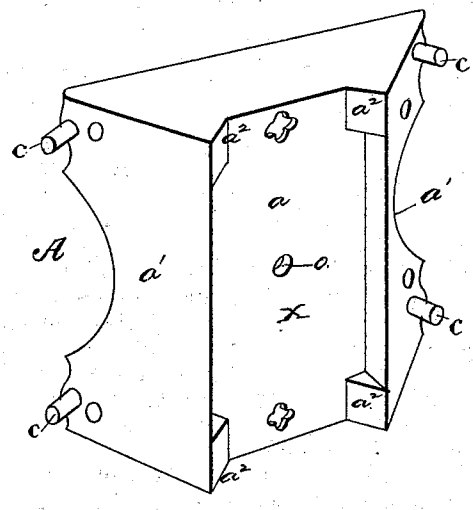


Fig. 5.

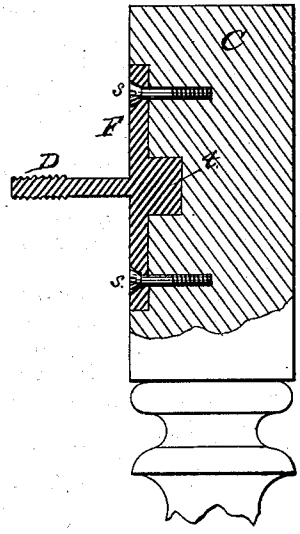
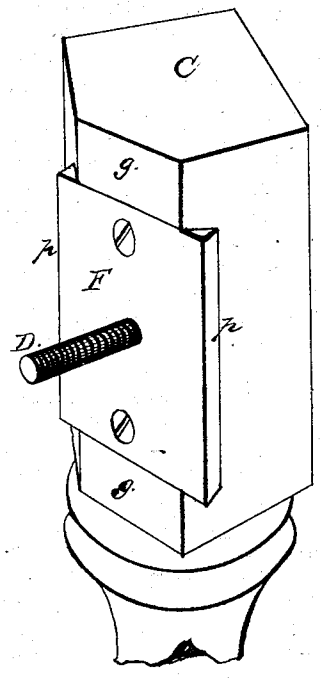


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT S. ROBINSON, OF ALBANY, NEW YORK, ASSIGNOR TO ANNA M. ROBINSON, OF SAME PLACE.

DEVICE FOR SECURING LEGS TO TABLES.

SPECIFICATION forming part of Letters Patent No. 280,401, dated July 3, 1883.

Application filed January 26, 1880. Renewed December 6, 1882. (Model.)

To all whom it may concern:

Be it known that I, ALBERT S. ROBINSON, of the city and county of Albany, and State of New York, have invented certain new and useful Improvements in Modes of Securing Legs to the Side Rails of Tables, of which the following is a specification.

Figure 1 of the drawings is a representation of a perspective view, from the inside, of a table-corner, showing my improved fastening applied. Fig. 2 is a vertical section of the table-leg and angle-plate. Fig. 3 is a horizontal section of the angle-plate, taken through line No. 1, Fig. 2. Fig. 4 is an exterior perspective view of the said plate. Fig. 5 is a vertical section of the upper end of the leg and plate, and Fig. 6 is a perspective view of the inside upper part of the table-leg.

This invention has relation to improvements in means for securing table-legs to the frame of the table, wherein angle-plates are employed at the inside corners.

The object of the invention is to increase the stability and rigidity of this description of fastening, and to improve them generally.

The nature of the invention will be hereinafter more fully set forth.

In the annexed drawings, the letters B B′ indicate the sides of the table-frame; C, the leg against which they abut, and which has one of its angles planed or squared off, as indicated at *g*, Fig. 1.

A designates the angle-plate, consisting of a web, *a*, two wings, *a′*, in planes at right angles to each other, and the horizontal ribs *b*, bracing the wings to each other and to the web. The wings *a′* have projecting therefrom at their upper and lower corners the spurs *c*, and the web at its upper and lower corners is provided with the angular lugs a^2. The wings are also provided with countersunk holes for the reception of the fastening-screws *s*, by means of which the said plate is secured to the rails B B′. These latter are provided in their inner faces with recesses *c′*, in which the spurs *c* are snugly received, thus re-enforcing the screws *s*. The plate A, with its wings, web, bracing-ribs, lugs, spurs, and, if desired, screw-holes, is cast in one piece ready for use.

The leg C has recessed into it a metallic plate, F, the outer face of which is flush with the squared face *g* of the leg, and whose vertical edges *p* extend out beyond the said surface, as indicated in Fig. 6. This plate is of a length and breadth to fit snugly in the quadrangular space X, between the four projecting lugs a^2, and is secured to the leg by means of the countersunk screws *s*. It is provided with a projecting horizontal screw, D, that extends through a perforation, *o*, in the web *a* of the angle-plate A. This plate is clamped against the leg by means of a thumb-nut, E, applied on the projecting end of the screw D, which screw, however, bears no portion of the weight of the table, but is simply limited in its function to holding the plate F in the quadrangular space X between the lugs a^2 on the angle-plate A. The effect of this construction is that the weight of the table is transferred directly to the plate F and the table-leg, and the screw is released of all upward or downward as well as lateral strain, and is not liable to break off or bend. The plate F has a projecting stud, *t*, on its back, and the screw D is placed in the mold, in the part thereof where the stud *t* is formed and cast into the plate, by which means a core is dispensed with. The effect of this construction is that the screw is securely fastened to the plate.

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

1. The combination of an angle-plate secured to the rails of a table, and having the web *a* and wings *a′*, the quadrangularly-arranged lugs a^2 on the back of said web, the plate F, recessed into the table-leg and fitting snugly into the quadrangular space between the lugs a^2, the screw D, and thumb-nut E, operating thereon, the whole constructed and combined to operate as and for the purposes set forth.

2. The combination of the plate F, recessed into the table-leg, as shown, and having the projecting screw D, provided with re-enforce *t*, with the angle-plate secured to the rail of the table, and provided with web *a* and wings *a′*, and thumb-nut E, all arranged and constructed to operate as and for the purposes specified.

ALBERT S. ROBINSON.

Witnesses:
CHARLES SELKIRK,
ALEX. SELKIRK.