

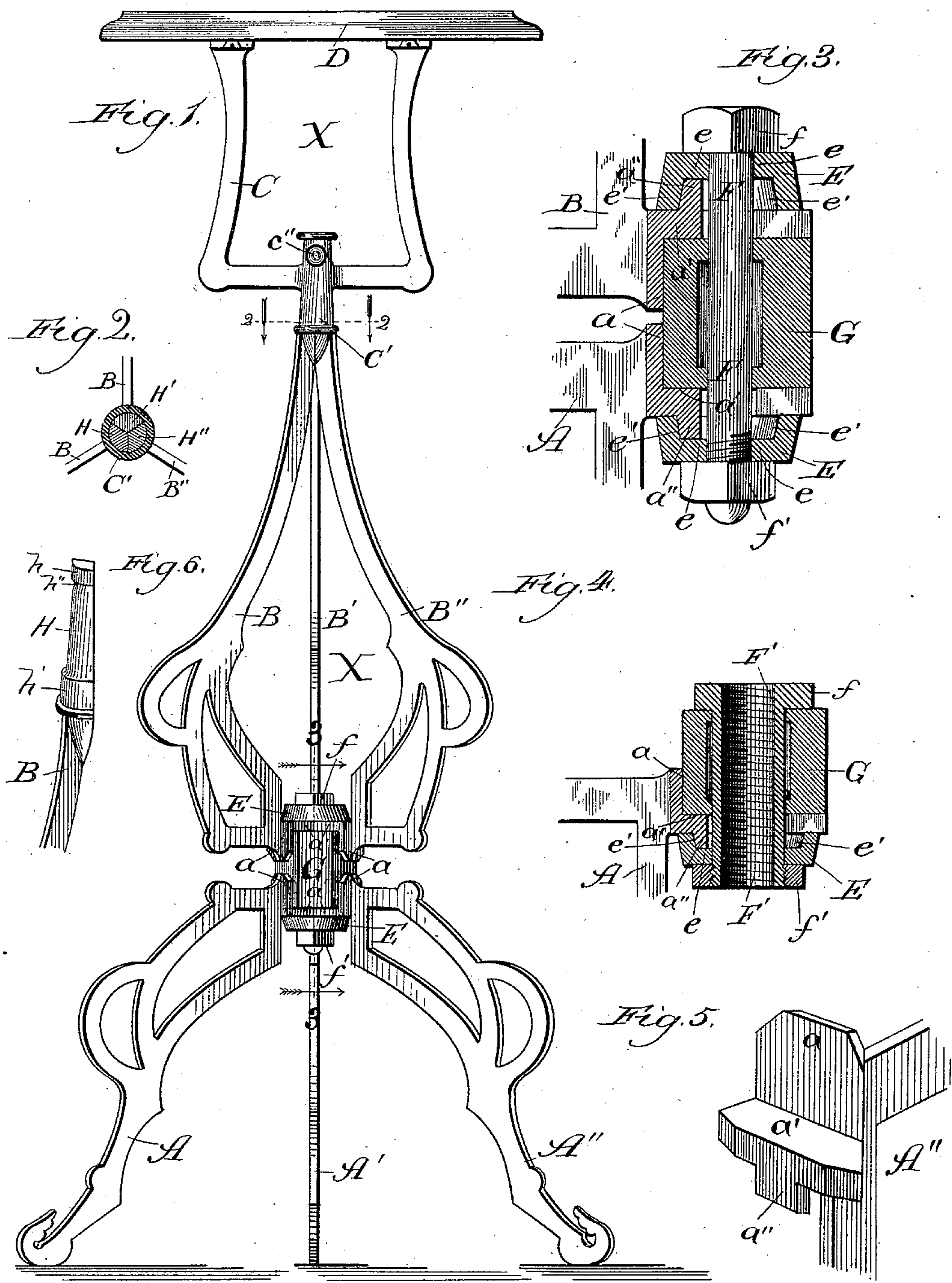
(No Model.)

G. E. CLOW.

DETACHABLE LEG AND STANDARD FOR STOOLS OR TABLES.

No. 397,225.

Patented Feb. 5, 1889.



Witnesses:

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Atty-



# UNITED STATES PATENT OFFICE.

GEORGE E. CLOW, OF CHICAGO, ILLINOIS.

## DETACHABLE LEG AND STANDARD FOR STOOLS OR TABLES.

SPECIFICATION forming part of Letters Patent No. 397,225, dated February 5, 1889.

Application filed July 25, 1888. Serial No. 280,974. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE E. CLOW, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Detachable Legs and Standards for Stools or Tables, of which the following is a full and complete description.

The purpose of my invention is to obtain detachable legs which may be readily placed together and firmly secured in such manner as to retain permanently a rigid position under all the strains to which they may be subjected, and adapted for use as table, chair, or stool legs, and for other like purposes; to obtain a standard constructed of several pieces of suitable material, preferably of cast metal, secured together in like manner as are the pieces constituting said legs, and attached to and forming a continuation of said legs, extending to, or nearly to, the slab forming the top of a table, whereby said legs and standard are adapted to constitute the legs of a table or stand, and to obtain a construction whereby the table-top or stand may be rotated when desired. In the construction of a table, chair, or stool the several devices whereby the legs are rigidly secured together and to a cylindrical or many-sided rod or hollow piece, preferably metallic, must be used, while in the construction of a chair or stool a portion of the devices forming a part of my invention need not necessarily be used, and often cannot be used, so that I consider that my invention consists, principally, in giving a peculiar shape or configuration to one end of the several pieces, preferably of cast metal, forming the legs of the table, stool, or chair, whereby they are rigidly secured, in the manner hereinafter fully set forth, to each other and to said cylindrical or many-sided central piece.

When a center table or stand is constructed embodying my invention, I ordinarily employ a standard extending from the point of junction of the legs to, or nearly to, the under surface of the slab forming the top of the table. This standard is ordinarily constructed of several pieces, and I prefer that they shall also be of cast metal, each of said pieces having at one end thereof a like configura-

tion to that end of the legs of the chair or table which are secured to the said cylindrical or many-sided central piece, and are attached in like manner to said center piece, and, if desired, by the same bolt by which the said legs are so secured; hence I do not consider the configuration of the end of the pieces forming the standard of the table, and the several parts combining therewith, any variation of, or addition to, the invention embodied in the configuration of the end of the leg-pieces and the several parts and pieces operating therewith.

The shape of the pieces constituting the said standard may be such that the upper end thereof may be rigidly secured to the under surface of the slab forming the top of the table; or said pieces may be so shaped and the configuration of the upper end of each of said pieces forming a part of said standard so determined that when said pieces are secured together and to the legs of the stand or table a conical spindle is obtained, over which spindle may be placed a frame having a collar therein fitting said spindle. This frame is rigidly attached to the table-top, but rotates freely upon the conical spindle referred to, and a rotary table is thereby obtained.

When the several devices constituting the legs of the table, chair, or stool are used for a chair or stool, it is often found desirable to so construct the said chair or stool that the seat thereof may be raised or lowered at will, and I therefore illustrate and describe a slight additional construction to the devices hereinbefore referred to.

As will hereinafter more fully appear, three or more legs may be used in my invention; but I prefer to so construct the device as to have but three legs thereto, and in the drawings accompanying and forming a part hereof I have illustrated my invention as embodied in a stool or chair having three legs, and in the drawings—

Figure 1 is an elevation of a rotary center-stand. Fig. 2 is a cross-section thereof on line 2 2 of Fig. 1. Fig. 3 is a cross-section on line 3 3 of Fig. 1. Fig. 4 is a cross-sectional view of my invention adapted for use in a chair or stool the seat whereof is adjustable and may be either raised or lowered. Fig. 5



is a perspective view of the upper end of one of the pieces forming the legs of the table or chair. Fig. 6 is a perspective view of the upper end of one of the pieces forming the standard.

Like letters refer to like parts throughout the several views.

X is a stand or center-table. A A' A'' are the legs thereof. These several legs are identical in form, and are lettered differently for ease in future reference and for convenience in describing the construction of the table or chair in the description hereof.

B B' B'' are the several duplicate pieces forming the standard.

C is a frame having a collar integral therewith fitting over the spindle formed by the coming together of the upper end of pieces B B' B''. The upper end of frame C is rigidly secured to slab D, forming the top of the table.

At the upper end of legs A A' A'' there are formed vertical face *a*, horizontal web *a'*, and web *a''*, and on the lower end of pieces B B' B'' there are formed like vertical face *a*, horizontal face *a'*, and lug *a''*, which serve the like purpose as do the said respective faces and parts on the upper end of legs A A' A''. Vertical face *a* is placed against and in contact with one of the sides of central piece, G.

G is a cylindrical or many-sided piece of metal, wood, or other suitable material, to which are secured the upper ends of the said legs A A' A'' and the lower ends of the said pieces B B' B'', forming the standard. Where three legs are used and the central piece, G, has many sides—as, for instance, three or more sides—vertical face *a* is placed against one of the faces of the piece G, and face or surface *a'* is placed on the end of said piece G.

E is a cap fitting over the lugs *a''* when the said legs are placed against central piece, G, in the manner described. Horizontal webs *a'* of the several legs are so shaped on the sides of said webs that when the legs are placed against central piece, G, the said sides of said webs come in contact, or nearly so, on the end of said piece G.

F is a bolt, having head *f* on one end thereof and nut *f'* on the other end thereof. Bolt F passes through a hole in the cap E, and also through a hole in central piece, G, and nut *f'* is then turned firmly into position against said cap E, thereby pressing said cap against legs A A' A'' and pressing said legs firmly against piece G. When pieces B B' B'' are used to construct the standard, the lower ends of said pieces are firmly secured to piece G in like manner as are the legs.

Where legs A A' A'', secured to central piece, G, by cap E being placed over the lugs on said legs in the manner described, and secured there by bolt F, passing through the center of said piece G, are placed on a chair or stool the seat of which it is desired to raise or lower at will, the said bolt so securing the said parts together is formed of a hollow rod having a screw-thread, F', therein, the

said screw-thread being adapted to receive a screw-threaded bolt secured to the seat of the chair. This form of construction is illustrated in Fig. 4 of the drawings. If it be not desired to raise or lower the seat of the chair or stool, but it is desired that the seat thereof be rotary, the threads F' in bolt F may be omitted, as also from the spindle fitting therein.

In the making of a table or stand embodying my invention, in which it is desired to make the top of the table rotary, the standard extending from the legs to a point near the under slab, forming the top of the table, is formed of three pieces, as illustrated in the drawings. Each of said pieces B B' B'' is of such a shape that the upper end thereof is in contact with the upper end of the other of said pieces, each of said ends forming one-third of a cone-shaped spindle, a cross-section of which spindle is illustrated in Fig. 2. In this view H H' H'' represent, respectively, the ends of pieces B B' B''. On each of said ends there is the shoulder *h* and *h'*, and there is also the groove *h''*. The collar of frame C comes in contact with shoulders *h h'*, and stop *c''* may be fitted into groove *h''*, thereby preventing the frame C from accidentally being displaced from said spindle. A perspective view of the end thus forming one-third of said spindle is illustrated in Fig. 6.

The several pieces B B' B'' are duplicates, different lettering being given them merely for identification in describing the construction of my invention.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of legs adapted for use in a chair, stool, or table, having at one end thereof a vertical face and a web having a horizontal face on one side thereof and a lug on the other side thereof, a central piece against the side of which said vertical face may be placed and against one end of which the horizontal face of said web may come in contact, a cap fitting over the lugs on said web, and a bolt whereby the said cap and legs and central piece may be rigidly secured together, all substantially as described.

2. The combination of legs adapted for use in a chair or stool, having at one end thereof a vertical face and a horizontal web having a lug on one side thereof, a central piece against the sides of which said vertical face may be placed and against one end of which the face of said horizontal web will be in contact, a cap fitting over the lugs on said horizontal web, and a bolt adapted to secure said cap, legs, and central piece rigidly together, the said bolt being hollow and having a screw-thread cut therein adapted to receive a threaded spindle secured to the seat of said chair, all substantially as described.

3. The combination of legs adapted for use in a chair or stool, having at one end thereof a vertical face and a horizontal web with a lug on one side thereof, a central piece against



the sides of which said vertical face may be placed and against one end of which the face of said horizontal web will be in contact, a cap fitting over the lugs on said horizontal web, 5 and a bolt adapted to secure said cap, legs, and central piece rigidly together, the said bolt being hollow and adapted to receive a spindle secured to the seat of said chair or stool, all substantially as described.

10 4. In a table, the combination of legs having a vertical face at one end thereof and a horizontal web having a lug thereon, a central piece against the sides of which said vertical face may be placed and against the end of 15 which said horizontal web comes in contact, a standard consisting of three or more pieces, having at one end a like vertical face and a horizontal web with lugs thereon, caps fitting over the lugs on said legs and pieces forming 20 said standard, and a bolt passing through said caps and central piece, whereby the said several pieces may be rigidly secured together, all substantially as described.

5. In a table, the combination of legs having

a vertical face at one end thereof and a horizontal web having a lug thereon, a central 25 piece against the sides of which said vertical face may be placed and against the end of which said horizontal web comes in contact, a standard consisting of two or more pieces, 30 each of said pieces having at one end thereof a like vertical face and horizontal web with lug thereon, and the other end of said pieces forming a part of a spindle, upon which may be placed a rotary frame, caps fitting over 35 said lugs on said horizontal web, and a bolt passing through the said caps and said central piece, whereby the said legs and the said pieces forming the standard may be rigidly secured to said central piece, all substantially 40 as described.

Chicago, Illinois, July 20, 1888.

GEORGE E. CLOW.

Witnesses:

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