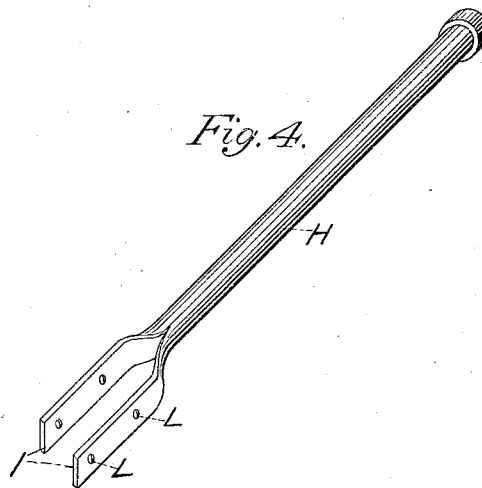
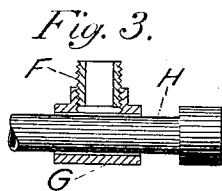
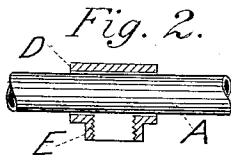
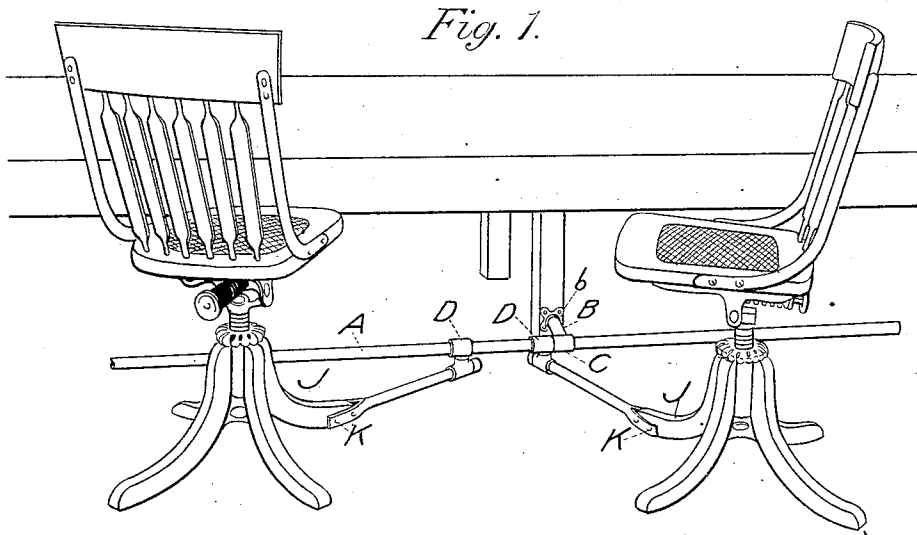


V. A. SIMMEL.
CHAIR FASTENER.
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1,049,159.

Patented Dec. 31, 1912.



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UNITED STATES PATENT OFFICE.

VINCENT ARTHUR SIMMEL, OF WASHINGTON, DISTRICT OF COLUMBIA.

CHAIR-FASTENER.

1,049,159.

Specification of Letters Patent.

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(DEDICATED TO THE PUBLIC.)

To all whom it may concern:

Be it known that I, VINCENT ARTHUR SIMMEL, a citizen of the United States, and an employee of the Department of Agriculture of the said United States, residing in the city of Washington, District of Columbia, (whose post-office address is Washington, District of Columbia,) have invented a new and useful Improvement in Chair-
10 Fasteners.

This application is made under the act of March 3, 1883, chapter 143 (22 Stat., 625), and the invention herein described and claimed may be used by the Government of
15 the United States or any of its officers or employees in the prosecution of work for the United States, or by any person in the United States without the payment of any royalty thereon.

20 My invention relates to chair fasteners.

The object of my invention is to provide a suitable device for fastening chairs to a wall, counter, table, or floor, so that the chairs may be moved horizontally without
25 tipping over, and may also be turned at an angle of thirty (30°) degrees or more against the wall or table, in order to occupy but little space.

My device is adapted for fastening any
30 type of chair or seat in a fixed position, and by its means for adjustment of the chairs or seats, renders the device particularly useful in narrow halls, lunch-rooms, factories, and other buildings where it is necessary to
35 economize space and to have unobstructed passage-ways in the event of fire or other casualty.

The nature, characteristic features and scope of my invention will be more readily
40 understood from the following description taken in connection with the accompanying drawing, forming a part hereof, wherein—

Figure 1 is a perspective view of my invention; Fig. 2 is a detail view of the
45 sleeve; Fig. 3 is a detail view of the collar; and Fig. 4 is a detail view of the connecting rod.

Referring to the drawing, A represents a horizontal metal bar or rod, sufficiently long
50 to extend the length of the space in which the chairs are to be placed.

B designates short metal rods or brackets, fastened by screws, or other suitable means, to an upright post, as shown at *b*. These

brackets, B, are provided with integral hol- 55
low joints, C, through which the rod, A, passes, thereby providing means for supporting said rod in a horizontal position. The brackets, B, are usually adjusted at the
60 end of the rod, A, but such brackets may be suitably spaced along said rod, for supporting the same, if the said rod is of unusual length. On the horizontal rod, A, is slidably arranged a metal sleeve, D, having projecting downwardly therefrom an integral
65 elbow or joint, E. This elbow, E, is provided with a threaded end for engaging the threaded nipple, F, forming an integral part of the collar, G. The collar, G, is employed for receiving and supporting one end
70 of the connecting rod, H. The other end of said rod, H, is split, thereby forming a fork, I, and said rod, H, is secured to the chair, J, by setting the chair-leg in the fork, I, and adjusting the screws, K K, through the aper-
75 tures, L L, into the chair leg. If it is desired to retain the chair in a stationary position, set-screws may be placed on the horizontal rod, A, for obstructing the movement of the sleeve, D. 80

The fastening device herein described is preferably made of metal, but the same may be constructed of any other suitable material.

In practising my invention, I take the
85 horizontal rod, A, and place thereon as many sleeves as there are chairs requiring fastening; then adjust the brackets, B, to the floor, wall, or suitable upright, and pass the rod, A, through the integral hol-
90 low joints, C, so as to retain said rod in a stable horizontal position. When the rod, A, is so arranged, the nipple, F, is adjusted to the elbow, E, by turning, and one end of the connecting rod, H, is inserted in
95 the collar, G, while the fork, I, is passed over the chair leg. The screws, K K, are placed in the apertures, L L, and screwed into the chair-leg, thus setting the mechanism in complete operative position. The
100 universal joint provided by the sleeve, D, elbow, E, and nipple, F, enables the connecting rod, H, to turn the collar, G, from one side to the other, in response to any side movement of the chair. However, I do not
105 confine myself exclusively to the use of the universal joint herein described, as the said sleeve, D, elbow, E, and collar, G, may

be made in one piece, so as to hold the chair in a fixed, rigid position if no side movement of the connecting rod is desired.

Having thus described my invention, I
5 claim—

1. In a chair fastening device comprising a horizontal rod, rigidly supported by brackets, properly spaced, and fixedly secured to a suitable surface, a sleeve slidably arranged on said rod, having an integral
10 downwardly projecting elbow provided with a threaded end, a collar having an integral threaded nipple for engaging said elbow, a connecting rod having one end supported by said collar, and the other end
15 forked for adjustment to the chair-leg, substantially as specified.

2. In a chair fastening device comprising a horizontal rod, brackets secured to a suitable
20 surface for supporting said rod, a

sleeve slidably arranged on said rod having an integral downwardly extending elbow provided with a threaded end, a collar having an integral threaded nipple at its top, a connecting rod having one end supported
25 by said collar and a fork formed in the other end for engaging a chair leg, apertures in said fork, and screws passing through said apertures and fastening said fork to the chair-leg, said nipple engaging said elbow
30 and forming a joint adapted to turn from one side to the other in response to the movement of said connecting rod, substantially as specified.

In witness whereof I affix my signature, 35
in the presence of two subscribed witnesses.

VINCENT ARTHUR SIMMEL.

Witnesses:

J. E. W. TRACY,
FRED C. FROST.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."