

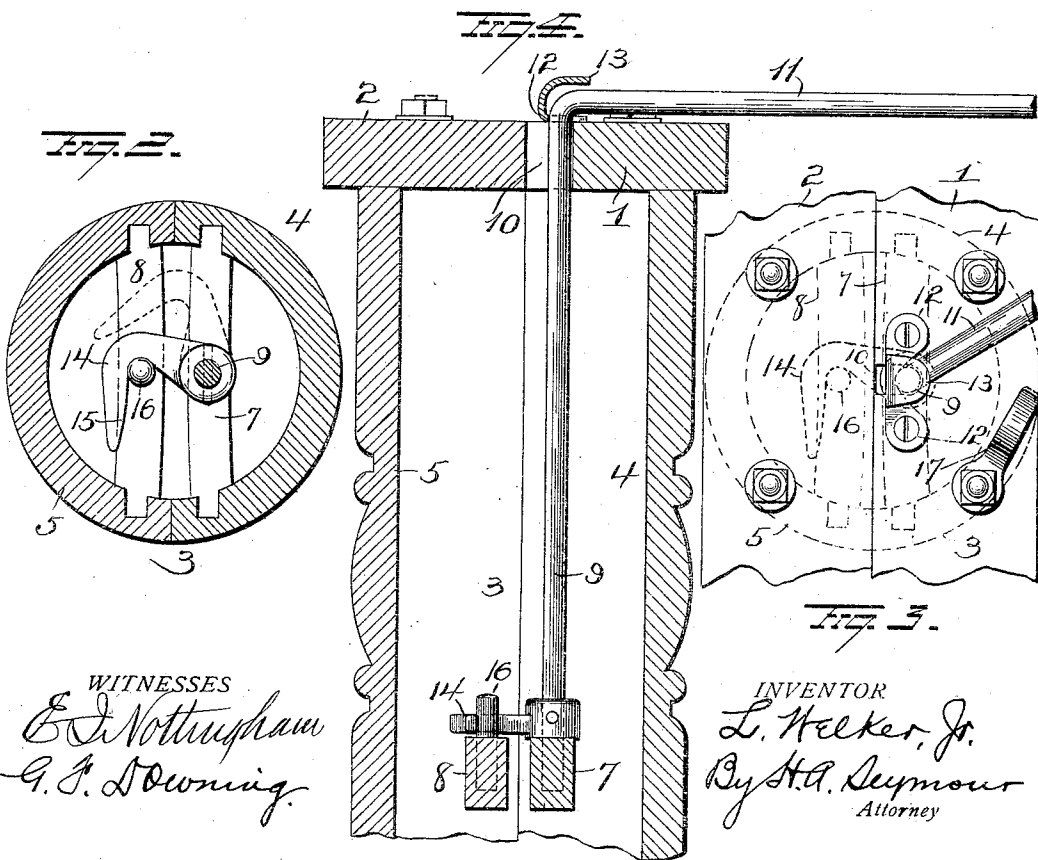
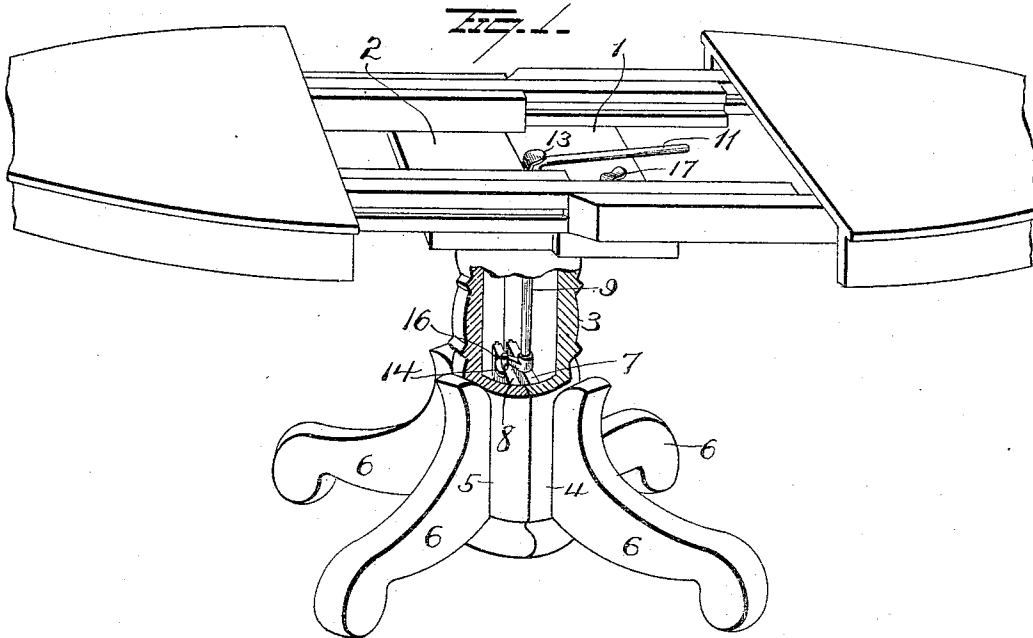
L. WELKER, JR.

TABLE.

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WITNESSES

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TABLE.

940,490.

Specification of Letters Patent.

Patented Nov. 16, 1909.

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To all whom it may concern:

Be it known that I, LOUIS WELKER, JR., a resident of Williamsport, in the county of Lycoming and State of Pennsylvania, have
5 invented certain new and useful Improvements in Tables; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it
10 appertains to make and use the same.

This invention relates to improvement in tables of the center pillar type, and more particularly to locking means for the members of a divided center pillar,—one object
15 of the invention being to so construct such locking means that the pillar members can be drawn and held tightly together, and so that the cooperating parts of said locking means will be prevented from accidental
20 disengagement.

A further object is to provide locking devices comprising a hook and pin, with means to prevent the hook from striking the pin when the pillar members carrying these
25 parts are brought together.

A further object is to so mount the locking devices, that the locking hook can be secured to the operating shaft before these parts are placed in position in a pillar member, and to provide means for preventing
30 lateral and vertical displacement of the operating shaft, and the hook carried thereby.

A further object is to provide locking devices which shall be applicable to divided
35 pillars of various sizes.

A further object is to provide locking devices for the members of a divided pillar, which shall be simple in construction,—comprise a small number of parts, and which
40 shall be effectual in the performance of their functions.

With these objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the
45 claims.

In the accompanying drawings; Figure 1 is a view showing the application of my improvements; Fig. 2 is a horizontal sectional view through the center pillar showing the members thereof locked together; Fig. 3 is a plan view showing the devices on one of the bridge blocks. Fig. 4 is a vertical section.
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1, 2 represent the bridge blocks of an extension table, and 3 the center pillar. The

pillar 3 comprises two hollow members 4—5 supported by legs 6 and secured at their upper ends to the bridge blocks 1—2 of the table by means of bolts or other suitable
55 fastening devices.

Cross bars 7—8 are located within the respective pillar members approximately between the upper and lower ends thereof and these bars are of such form and dimensions
60 that they will have more or less elasticity when subjected to lateral strain applied between their ends, as hereinafter explained. The cross bar 7 is provided intermediate of its ends with a socket for the reception of
70 the lower end of a vertical shaft 9, the upper portion of said shaft passing through an open ended slot 10 in the bridge block 1, and then bent laterally to form an arm or handle 11. A plate 12 is removably secured to the
75 top of the bridge block 1 and serves to prevent lateral displacement of the shaft 9, and a lip 13 projecting from the plate 12 overhangs the upper end of the shaft so as to prevent vertical displacement of the latter. 80

A hook 14 is secured to the shaft 9 so as to be disposed immediately over the cross bars 7 and 8 and, by mounting said shaft in the manner above described, this hook may be secured to the shaft before the latter is
85 placed in position in the pillar member 4. The hook is so formed that the portion 15 thereof forms a cam which cooperates with a pin 16 secured to the cross bar 8 in the member 5 of the pillar. In order that the
90 portion 15 of the hook shall be held out of alinement with the pin 16 when the two members of the pillar are brought together, and thus avoid the possibility of breaking the hook or loosening the pin by the sudden
95 striking of these parts, I provide a spring arm or clamp 17 secured to the bridge block 1 to receive the arm or handle 11 and hold the shaft 9 in such position that the portion
100 15 of the hook will be prevented from striking the pin 16 when the pillar members are brought together.

When the members of the pillar shall have been brought together, and the shaft 9 turned by means of the handle 11, the hook
105 14 will engage the pin 16, the cam portion 15 of said hook cooperating with the pin in such manner as to draw the two members of the pillar tightly together. When the parts are thus drawn together, the cross bars
110 7—8 will flex slightly and their elasticity will be such as to cause sufficient frictional

engagement of the hook with the pin to prevent accidental disengagement of the former from the latter. The cross bars will be so located with respect to the abutting edges of the pillar sections that the hook carried by one pillar member will properly engage the pin carried by the other, when the two pillar members are brought together. The cross bars will always be located such definite distances from the abutting edges of the pillar members, regardless of the diameter of the pillar to which my improvements are applied. My improved lock is therefore applicable to divided pillars regardless of the diameter of the latter, it being simply necessary to employ cross bars of sufficient length for application to the particular pillar to which it may be desired to apply the lock. The cross bars may be made of wood, and the metal parts of the device can be made precisely the same in dimensions for pillars of all sizes.

Slight changes may be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope, and hence I do not wish to restrict myself to the exact details herein set forth.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. The combination with the two members of a divided pillar, of flexible cross bars secured in the respective members, a shaft revolubly mounted in one of said cross bars, a hook carried by said shaft, and a pin secured to the cross bar in the other pillar member and adapted to be engaged by said hook.

2. The combination with the members of a divided pillar, of flexible cross bars located within the respective pillar members,

a shaft revolubly mounted in the cross bar in one pillar member, a pin fixed to the cross bar in the other pillar member, and a hook secured to said shaft, said hook having a cam portion to coöperate with said pin.

3. The combination with the members of a divided pillar, and bridge blocks to which the pillar members are secured, one of said bridge blocks having a slot open at one end, of a shaft mounted in one pillar member and passing through the slot in the bridge block to which said pillar member is secured, a plate removably secured to said bridge block and extending across the slot therein, a lip on said plate and disposed over the upper end of the shaft, a hook secured to said shaft within one pillar member and a pin in the other pillar member to be engaged by said hook.

4. The combination with the members of a divided pillar and bridge blocks to which the pillar members are secured, of flexible cross bars in said pillar members, a shaft revolubly mounted in the cross bar in one pillar member, a hook secured to said shaft within the pillar member, a pin carried by the cross bar in the other pillar member to be engaged by said hook, an operating arm projecting from the upper end of said shaft, and a spring arm or clamp to be engaged by said operating arm to prevent movement of the shaft and to thus hold the hook out of alinement with the pin carried by the other pillar member.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LOUIS WELKER, Jr.

Witnesses:

OLIVER J. DECKER,
E. P. KNIGHT.