No. 854,790. PATENTED MAY 28, 1907.

C. AALBORG.

PIVOTALLY MOUNTED MEMBER.

APPLICATION FILED MAY 2, 1906.

Fig. 1.

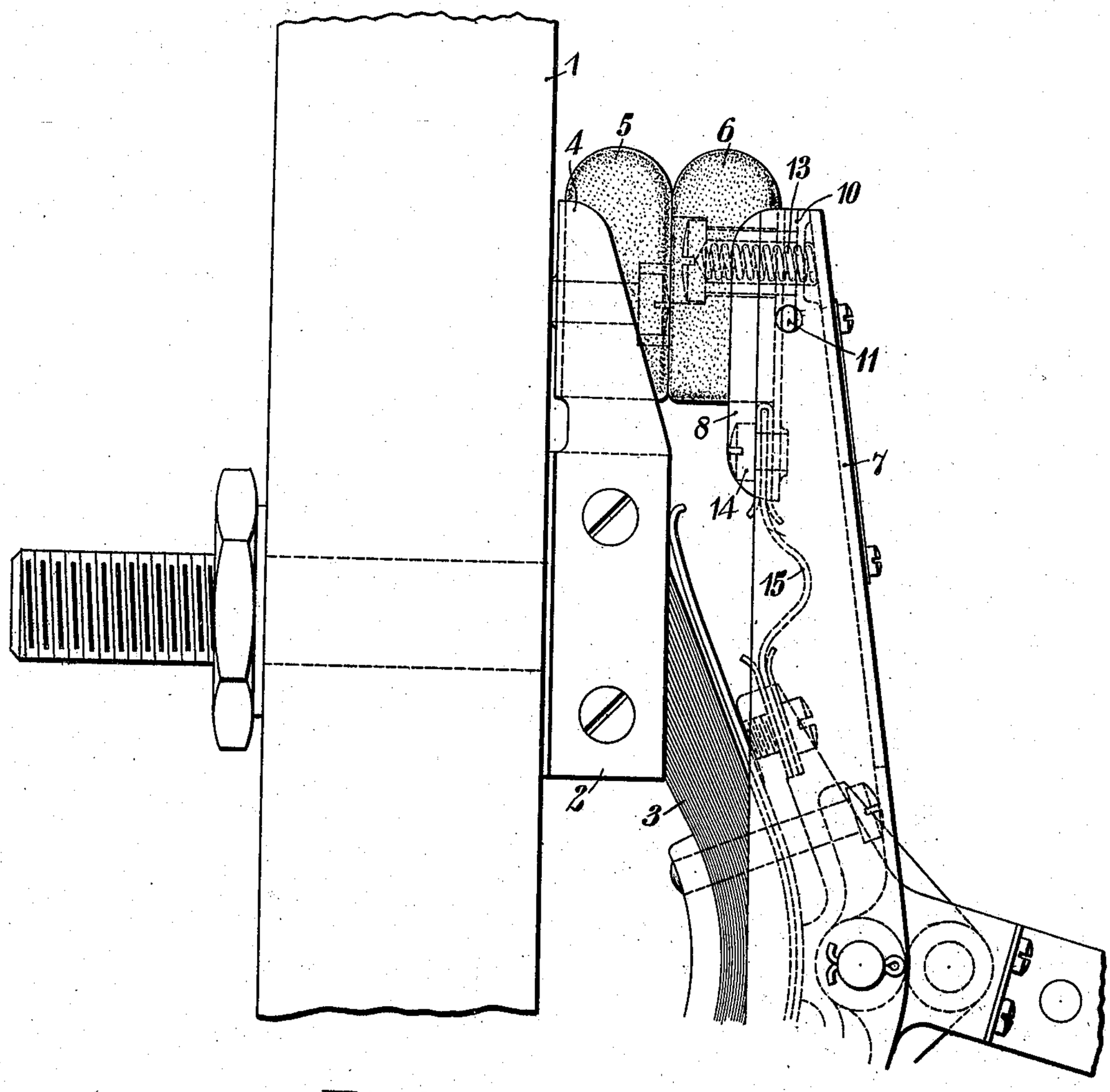


Fig. 2.

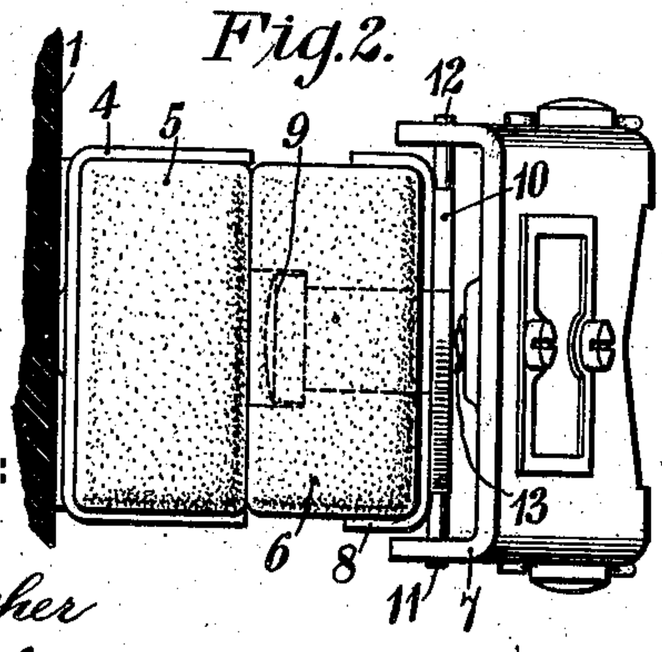
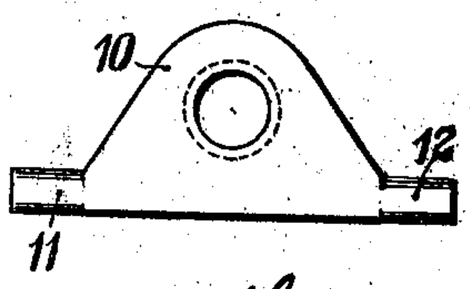


Fig. 3.



WITNESSES:

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CHRISTIAN AALBORG, OF WILKINSBURG, PENNSYLVANIA, ASSIGNOR TO WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, A CORPORATION OF PENNSYLVANIA.

PIVOTALLY-MOUNTED MEMBER.

No. 854,790. Specification of Letters Patent. Patented May 28, 1907.

Application filed May 2, 1906. Serial No. 314,855.

To all whom it may concern:

Be it known that I, CHRISTIAN AALBORG, a citizen of the United States, and a resident of Wilkinsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Pivotally-Mounted Members, of which the following is a specification.

My invention relates to pivotally mounted parts, and particularly to the pivoted terminal pieces of electrical circuit breakers.

The object of my invention is to provide such a structure and arrangement for pivotally mounted parts as will facilitate the manufacture and assembling thereof.

Figure 1 of the accompanying drawing is a view in side elevation of a portion of an electrical circuit breaker that embodies my invention. Fig. 2 is a top plan view of certain parts of the circuit breaker of Fig. 1, and Fig. 3 is a view of one of the parts that is not clearly shown in Figs. 1 and 2.

Mounted upon the face of a marble or other suitable slab 1 is a stationary terminal piece 2 of an electrical circuit breaker with which a movable and flexible switch member 3 is adapted to engage. The terminal piece 2 is provided with an upwardly projecting bracket 4 that supports a block 5 of carbon or of other suitable material, with which another similar block 6, that is pivotally mounted in the upper end of a movable channel-shaped arm 7, is adapted to engage. The block 6 is secured in a channel-shaped plate 8, that is slightly narrower than the opening between the sides of the channel-shaped arm 7, by means of a tap screw 9, that is threaded into a triangular-shaped plate 10. The plate 10 is provided with rounded lugs 11 and 12 at two of its corners that project into apertures in the sides of the channel-shaped arm 7, the width of the plate 10 being not greater than the distance between the sides of the channel-shaped arm 7 less the length of one of the lugs. When thus constructed, the plate 10 may be readily placed in position between the sides of the channel-shaped arm 7 by first inserting one of the lugs 11 and 12 for its full length into the corresponding aperture and then the other into its corresponding aperture. The channel-shaped piece 8 is secured to the plate 10 centrally with reference thereto and thus serves to prevent withdrawal of the lugs from the apertures in the sides of the arm 7.

The threaded end of the screw 9 is provided with a recess for the reception of one end of a coil spring 13 that serves to tilt the block 6 forward when it is not in engagement with the block 5, in order to insure an initial make and a final break of the circuit between the blocks 5 and 6 and a proper adjustment of their contact faces. The lower end of the channel-shaped piece 8 is threaded for the reception of a screw 14 that serves to connect one end of a flexible conductor 15 thereto.

If desired, the lugs upon which the movable member is pivoted may be attached to or be formed integral with the sides of the channel-shaped arm 7, the apertures being provided in the other member, and the structural details and the arrangements of the parts may be further modified within considerable limits without departing from the spirit of the invention.

I claim as my invention:

1. The combination with a member having flanges, of another member that is pivotally supported between the flanges by means of lugs upon one of the members that project into apertures in the other, the latter member comprising a plate that is no greater in width than the distance between the flanges less the length of one of the lugs, and a part that is secured thereto, whereby withdrawal of the lugs from the apertures is prevented.

2. The combination with a member having flanges, of another member that is pivotally supported between the flanges by means of lugs upon one of the members that project into the apertures in the other, the latter member comprising a plate that is no greater in width than the distance between the flanges less the length of one of the lugs and a part that is secured thereto, whereby withdrawal of the lugs from the apertures is prevented, a screw for clamping said parts together having a recess in one end and a resilient means partially located therein for normally maintaining the pivoted member in a tilted position.

3. The combination with a member having flanges, of another member that is pivotally supported between said flanges and com-

prises a plate having lugs, the width of the plate being no greater than the distance between the flanges less the length of one of the lugs, and a part of greater width than the plate to which the plate is secured in an approximately central position with reference thereto.

4. The combination with a member having flanges, of another member that is pivotally supported between said flanges and comprises a plate having lugs, the width of the plate being no greater than the distance between the flanges less the length of one of the lugs, and a part of greater width than the plate to which the plate is secured in an approximately central position with reference thereto, a screw for clamping said parts together having a recess in one end, and resilient means partially located therein for normally maintaining the pivoted member in a tilted position.

5. The combination with a member having flanges, of another member that is pivotally supported between the flanges by means of lugs upon one of the members that project into apertures in the other, the latter member comprising a plate that is no greater in width than the distance between the flanges less the length of one of the lugs, and a part of greater width than the plate to which the plate is secured in an approximately central position with reference thereto.

In testimony whereof, I have hereunto subscribed my name this 30th day of April, 1906.

CHRISTIAN AALBORG.

Witnesses:
A. G. CORRAO,
BIRNEY HINES.