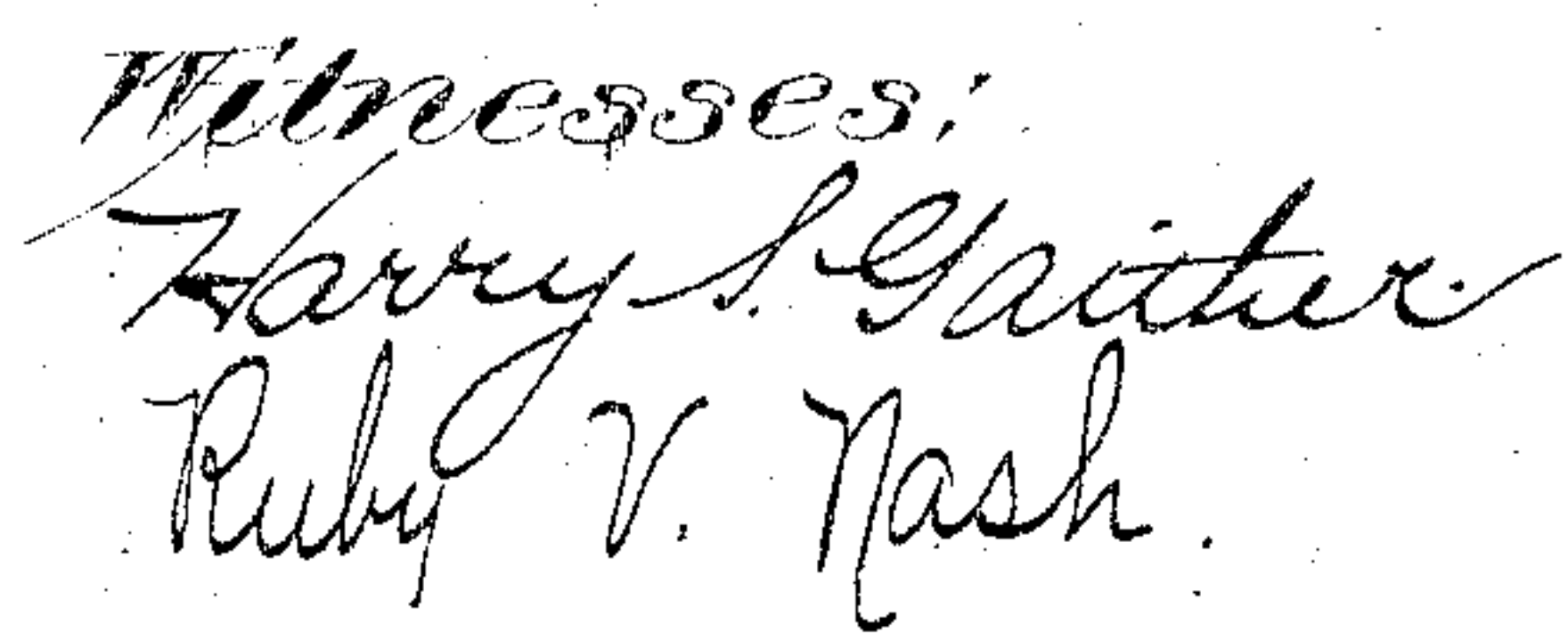


908,954.

Patented Jan. 5, 1909.



Inventor:
James H. Channon
by Walter H. Chamberlin
his att'y

UNITED STATES PATENT OFFICE.

JAMES H. CHANNON, OF CHICAGO, ILLINOIS.

INTERMEDIATE SUPPORT FOR AWNING-ROLLERS AND THE LIKE.

No. 908,954.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed January 31, 1908. Serial No. 413,528.

To all whom it may concern:

Be it known that I, JAMES H. CHANNON, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Intermediate Supports for Awning-Rollers and the Like, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to devices for supporting rotating shafts such as awning rollers and the like at points between the ends thereof and has for its object to provide a device of this character which shall be simple in construction, which may be quickly and conveniently adjusted so as to adapt it to rollers of different diameters, and which may be conveniently secured in position and brought into alinement with the remaining supports and bearings.

The various features of novelty which characterize my invention will be hereinafter pointed out with particularity in the claims but for a full understanding of my invention in its various aspects reference may be had to the following detailed description taken in connection with the accompanying drawing, wherein:

Figure 1 is a front elevation of a device arranged in accordance with a preferred form of my invention, the supported roller being shown in dotted lines; Fig. 2 is a rear elevation of the device the supporting rolls being omitted; and Fig. 3 is a section taken on line 3—3 of Fig. 1, the roller being shown in full lines.

Referring to the drawing, A is a plate or bracket having a pair of arms B, B, projecting laterally therefrom near the lower end thereof. Between these arms are journaled rolls C and C' respectively, these rolls being arranged with their axes parallel to each other and parallel to the plane of the bracket. The distance between the rolls is made such that the smallest roller which is to be supported by the device will be held free from the arms B by means of the rolls.

D indicates a usual form of awning roller upon which is wound the fabric *d*.

Since the roller is supported from beneath some means must be provided for preventing it from being pulled laterally from its

support and it is therefore customary to provide a third roll E', generally supported by means of a separate bracket, so that it may be brought into engagement with the roller or the fabric carried thereby, at a point above the roll C'. The fabric passes between the rolls C' and E' so that any tendency to pull the roller laterally when the fabric is drawn upon or due to the weight of the fabric and the pole or other device whereby it is held taut, is resisted by the rolls C' and E'.

The adjustability of the device so as to adapt it for use in connection with different sized rollers is affected by shifting the roll E' and, in one of its aspects, the present invention may be regarded as comprising a novel arrangement for supporting this auxiliary roll. To this end the bracket A is made elongated and is provided with a slot *a* which is preferably arranged at right angles to the axes of the rolls. The roll E' is journaled within a jaw F which is adapted to be secured to the bracket by means of a bolt G which passes through the slot in the bracket and the jaw. The slot is preferably counter-sunk on the rear of the bracket as at *a'* so as to afford a socket for receiving the head *g* of the bolt, thereby avoiding obstructions on the rear face of the bracket and permitting the bracket to be brought into intimate contact throughout its entire extent with a plane surface. A portion of the shank of the bolt at *g'* is preferably squared so as to prevent the rotation of the bolt within the slot, thereby permitting the nut *g*² to be readily screwed and unscrewed. The member F is preferably provided with rearwardly projecting flanges *f* and *f'* which are spaced apart just far enough to receive the bracket between them so that when the jaw is bolted to the bracket the flanges engage with the side edges thereof and securely hold the jaw against rotation and maintain the roll E' in parallelism with the other rolls. It will be seen that when a roller is to be removed or inserted within the bearing it is only necessary to loosen the nut *g*², whereupon the jaw and its roll may be lifted sufficiently to permit the roller to be removed or inserted laterally. After a roller has been placed in position the jaw is moved along the bracket until the roll carried by the jaw comes into the proper relation with respect to the roller and the jaw may then be rigidly secured in the manner described.

It will be seen that by supporting the jaw directly upon the bracket instead of independently thereof, the adjustment of the jaw may be readily effected without disturbing the wall or other support to which the device is secured and it is unnecessary for the workman to drill holes into the wall or support for securing the jaw after the bracket itself has been placed in position. It will further be seen that the bracket and the jaw may be ordinary castings which require no finishing, so that the whole device is cheap as well as efficient.

The bracket may be secured in place by means of bolts passing through openings a^2 and a^3 near the top and bottom thereof or it may be held by a single bolt such as indicated in dotted lines at H, this bolt passing through the slot a above or below the point at which the jaw is secured. The slot a is preferably made longer than would be necessary to merely provide for adjusting the jaw, in order that space may at all times be left for receiving a bolt for securing the bracket in place. It will be seen that by making use of the elongated slot for receiving a fastening bolt for the bracket, it is possible to secure the device in place temporarily and then, after the end supports for the rollers have been established, shift the bracket up or down, after loosening the bolt H, until the device is brought into alignment with the end bearings or supports. This feature is of considerable importance since awning rollers have to be placed in position on walls made of all sorts of materials and in all conditions of repair, and walls which are frequently considerably distorted. It is very difficult therefore to aline all of the bearings and supports by simply measuring from some given line upon the walls and it has heretofore been necessary very frequently to take down bearings after they were thought to be in alinement and drill a new set of holes in the wall so as to obtain actual alinement. With the present device, however, considerable latitude of adjustment is permitted even after the device has been placed in position so that, if the error in alinement be not too great, the error may be corrected by simply loosening the bolt H and shifting the intermediate device until it is in alinement with the remaining supports or bearings. Where a number of intermediate supports are employed the advantage of this adjustment is of course even greater than where there is but a single intermediate support. It often happens that the device must be placed in such a position that no bolt can be passed through the openings a^2 and a^3 and in such case the elongated slot affords a bolt-opening without making it necessary for the workman to drill a new hole.

While I have illustrated and described in detail a preferred form of my invention I do not desire to be limited to the particular features of construction thus illustrated and described, since in its broader aspects my invention may take various other forms as will be evident from the definitions constituting the appended claims.

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

1. A device of the character described comprising a bracket having a laterally projecting arm near one end and an elongated slot extending in a direction transverse to said arm, said slot being counter-sunk on the back of the bracket, a pair of revoluble supporting devices carried by said arm, a guide above said device, and means including a bolt passing through said slot and having its head lying in the counter-sunk portion thereof for adjustably securing said guide to the bracket, said elongated slot being greater in length than the depth of said jaw measured in the direction of the length of the slot.

2. A device of the character described comprising a bracket having a pair of arms projecting laterally therefrom near one end thereof, a pair of parallel rolls journaled in said arms, said bracket having an elongated slot extending transversely to said rolls, said slot being counter-sunk on the back of the bracket, a jaw having a face for engaging with the front of the bracket and shoulders arranged to engage with the side edges of the bracket, means for adjustably securing said jaw to the bracket including a bolt passing through said slot, and having its head arranged within the counter-sunk portion of the slot and a third roll revolubly supported by said jaw above and in parallelism with the other rolls.

3. A device of the character described comprising a bracket having a pair of arms projecting laterally therefrom near one end thereof, a pair of parallel rolls journaled in said arms, said bracket having an elongated slot extending transversely to said rolls, a third roll, a jaw for supporting said latter roll above and in parallelism with the other rolls, and means including a device passing through said slot for adjustably supporting said jaw upon said bracket, said elongated slot being greater in length than the depth of said jaw measured in the direction of the length of the slot.

In testimony whereof, I sign this specification in the presence of two witnesses.

JAMES H. CHANNON.

Witnesses:

WM. F. FUNDENREICH,
HARRY S. GAITHER.