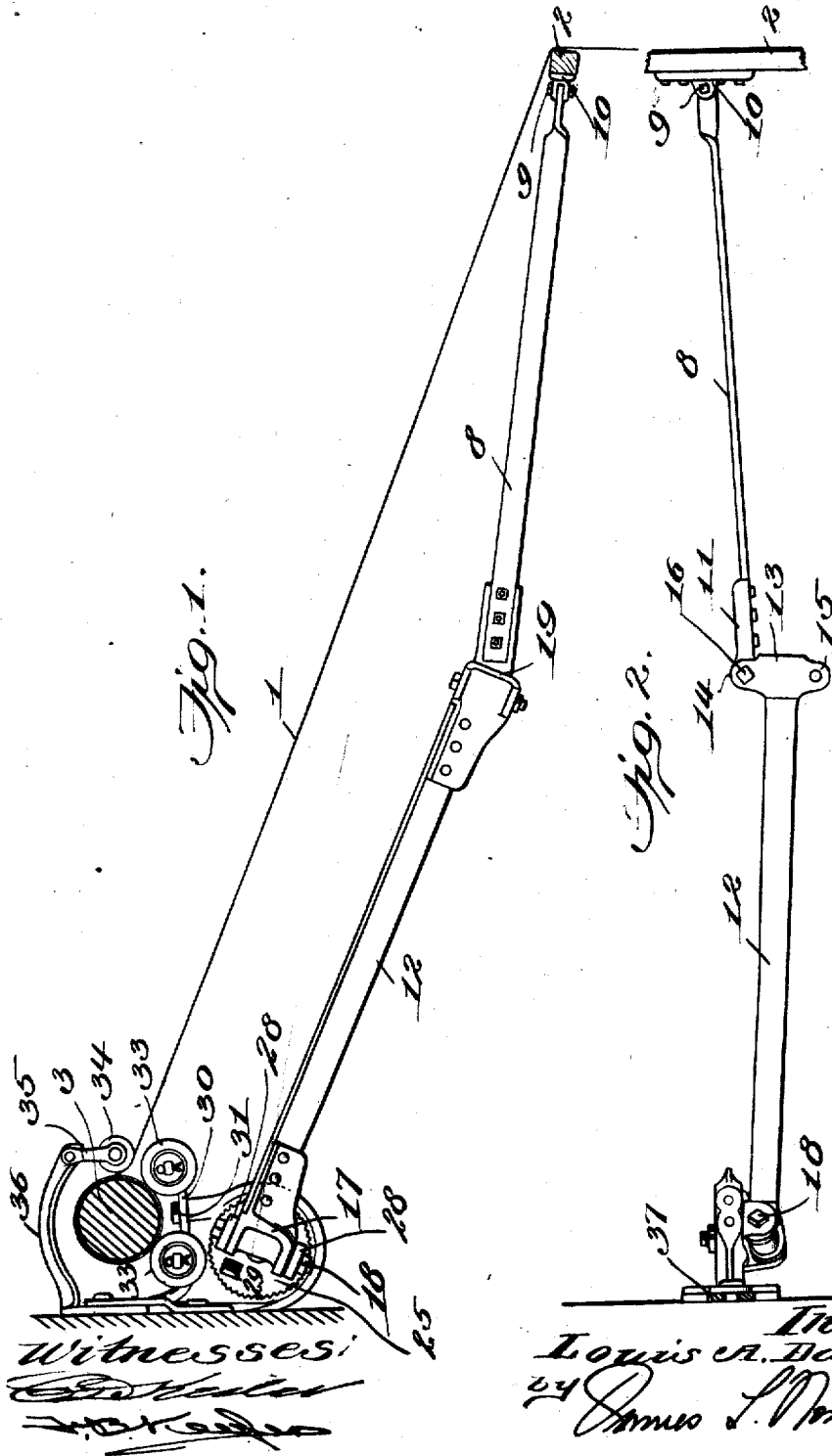


1,017,515.



L. A. DAUS.
AWNING BRACKET.

APPLICATION FILED FEB. 21, 1911.

Patented Feb. 13, 1912.

2 SHEETS—SHEET 2.

1,017,515.

Fig. 3.

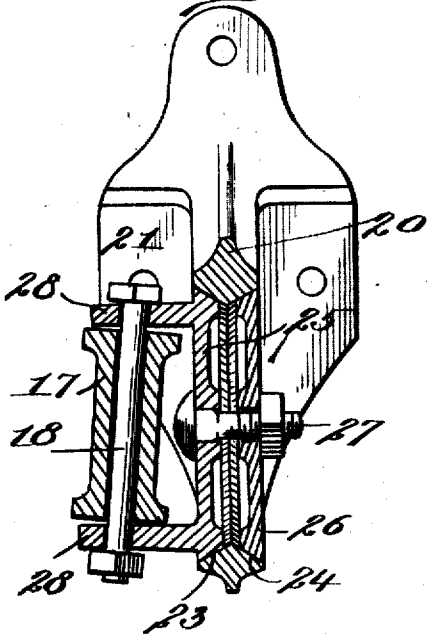


Fig. 4.

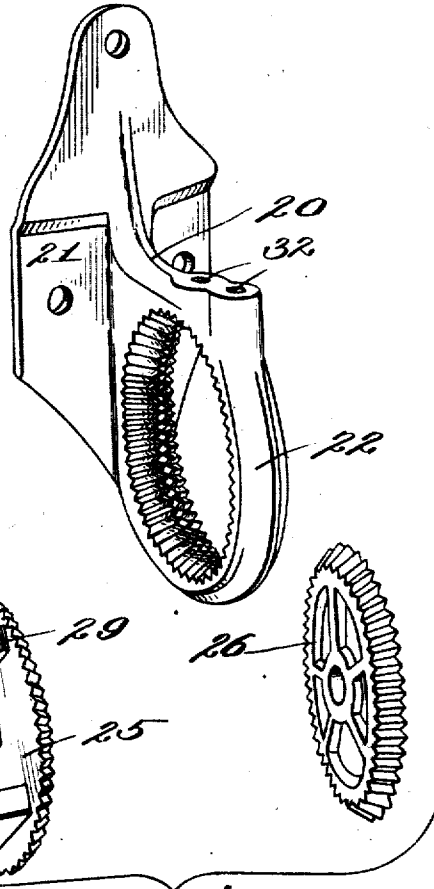


Fig. 6.

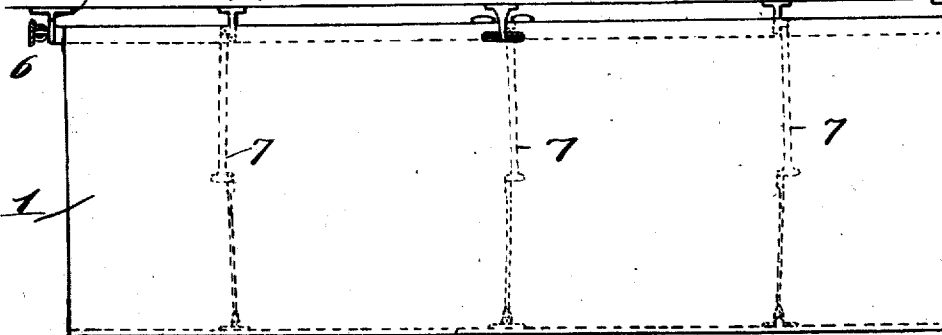


Fig. 5.

Witnesses: 2
[Signature]
[Signature]

Inventor
Louis A. Daus
[Signature]

UNITED STATES PATENT OFFICE.

LOUIS A. DAUS, OF EVANSVILLE, INDIANA.

AWNING-BRACKET.

1,017,515.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed February 21, 1911. Serial No. 809,898.

To all whom it may concern:

Be it known that I, LOUIS A. DAUS, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented new and useful Improvements in Awning-Brackets, of which the following is a specification.

My present invention relates to improvements in awnings and more especially to those of the type wherein the canvas or cover is held in extended position by a suitable number of jointed arms which are foldable laterally to permit rolling or collapsing of the awning, the necessity of using the usual braces being thereby avoided, and the primary object of the invention is to provide an improved bracket for supporting the arm at different desired inclinations, the bracket according to the present invention providing a positive support for the arm whereby the arm will be securely locked at the desired angle or inclination and the bracket in the preferred form of the invention is reversible whereby the same bracket may be used irrespective of the direction in which the arm is to be folded, limiting stops being provided for insuring proper positioning of the arm in both cases.

To these and other ends, the invention consists in certain improvements, and combinations and arrangements of parts, all as will be hereinafter more fully described, the novel features being pointed out particularly in the claims at the end of the specification.

In the accompanying drawing:—Figure 1 represents a sectional side elevation of an awning embodying a bracket constructed in accordance with my present invention; Fig. 2 represents a top plan view of one of the laterally foldable awning arms and its supporting bracket; Fig. 3 represents a vertical section through the bracket and the adjacent end of the respective awning arm; Fig. 4 is a perspective view of the bracket with the locking members detached therefrom; Fig. 5 shows in perspective the detached locking heads; and Fig. 6 is a diagrammatic view of an awning of the type to which my invention is applicable.

Similar parts are designated by the same reference characters in the several views.

In the present instance, 1 designates the canvas or cover of the awning, the outer edge of the canvas or covering having an awning rail 2 attached thereto and the opposite edge of the awning is attached to a

winding roll or shaft 3. This shaft may be mounted in the usual or any desired way, its ends in the present instance being journaled in suitable bearing brackets 4 and 5 which are arranged adjacent to the ends of the roll or shaft and the roll or shaft may be rotated to wind and unwind the canvas or cover by means of a gear 6 or other suitable or well known means.

A suitable number of laterally foldable arms 7 are provided for supporting the canvas or cover of the awning in extended condition, certain of these arms being foldable laterally in one direction while one or more of them may fold laterally in a reverse direction as may be desired, the outer end of each arm being attached to the awning rail 2 while the inner end of each arm is fixed to a wall or other suitable support so that the use of the usual braces is rendered unnecessary. In the present instance, each arm embodies an outer section 8 one end of which is pivotally connected by a vertical pin or bolt 9 to a bracket 10, the bracket being secured to the inner side of the longitudinally extending awning rail, and the inner end of this section 8 is provided with a casting 11 which is pivotally connected to the inner section 12 of the arm. In order that the same arm sections 8 and 12 may serve interchangeably, irrespective of whether the arm is foldable toward the right or the left, the outer end of the arm section 12 is provided with a head 13 and this head 13 is formed with pivot lugs 14 and 15 which project laterally from the opposite sides thereof. The casting 11 of the arm section 8 may be interchangeably fitted between either the pivot lugs 14 at one side of the arm section 12 or the pivot lugs 15 at the opposite sides thereof, and a pin or bolt 16 serves to pivotally unite the parts. The opposite or inner end of the arm section 12 carries a bearing head 17 which is adapted to receive a pivot pin or bolt 18 and to prevent the pivot pin or bolt 16 from moving into a position in alignment with the pivot pins 9 and 18 and thus locking the foldable arm, the outer end of the head 13 is formed with a stop 19 against which the casting 11 on the outer arm section 8 abuts when the arm is extended.

According to the present invention, each foldable arm is supported by a bracket, one member 20 of which is formed with a base 21 which is adapted to be secured rigidly to a wall or other suitable support, and this

bracket member is formed with a forwardly
 extending flange 22. This flange has a cir-
 cular opening and the wall of the opening
 is formed with oppositely tapered surfaces
 23 and 24 which flare toward the opposite
 sides of the flange. These surfaces are also
 preferably corrugated, toothed, or otherwise
 formed whereby a positive locking engage-
 ment may be produced between the fixed
 member of the bracket and the relatively
 adjustable members or heads 25 and 26.
 These heads 25 and 26 have correspondingly
 beveled or tapered peripheries and their
 peripheries are corrugated, toothed, or other-
 wise formed to substantially match and in-
 terlock with the respective surfaces 23 and
 24. The member or head 25 is adapted to
 fit into one side of the fixed bracket member
 while the head 26 is adapted to fit into the
 opposite side of the fixed bracket member, a
 clamping and locking bolt 27 passing
 through the heads or members 25 and 26
 and being operative to draw these latter
 members into firm locking engagement and
 to retain them in such condition. One of
 these heads (the head 25 in the present in-
 stance) is formed with a pair of pivot lugs
 28 which are adapted to receive the bearing
 head 17 on the arm section 12 between them,
 the pivot pin or bolt 18 extending through
 the lugs 28 and the bearing head 17 and
 thereby uniting the parts. In order that the
 collapsible arm may have a normal tend-
 ency to extend itself by gravity and to
 retain itself in such condition until the awn-
 ing is wound upon the roll or shaft, the
 pivot pin or bolt 18 may be inclined with
 respect to the head 25, as shown in Fig. 3.
 The heads 25 and 26 may be reversibly ap-
 plied to the fixed bracket member whereby
 the respective arm may fold to the right or
 to the left. In order to limit the movement
 of the arm section 12 toward extended posi-
 tion, irrespective of whether the arm is
 foldable toward the right or the left, I pre-
 ferably form the outer face of the head 25
 with a pair of limiting projections 29 which
 are arranged at opposite sides of the pivot
 pin or axis 18. By loosening the clamping
 screw or bolt 27, the respective arm is capa-
 ble of adjustment with respect to its incli-
 nation, and when this clamping screw is
 tightened, the arm will be positively locked
 at the desired inclination and it cannot ac-
 cidentally shift, owing to the interlocking
 of the corrugations or teeth formed between
 the heads 25 and 26 and the cooperating
 surfaces of the fixed bracket member.
 To prevent sagging of the awning wind-
 ing roll or shaft 3 at the center or interme-
 diate points, especially when a relatively
 long roll or shaft is used, a frame 30 may
 be secured to the top of one of the interme-
 diate bracket members 20 by means of the
 screw 31 which is adapted to enter one or

another of the threaded bores 32 formed in
 the top of the flange 22, the frame 30 being
 provided with idler rollers 33 upon which
 the winding roll or shaft 3 and the awning
 wound thereon rest and, furthermore, to
 prevent the winding roll or shaft 3 from
 being displaced with respect to the idler
 rollers 33 due to the tension upon the canvas
 or awning cover, a retaining roller 34 may
 be provided which is suspended in front of
 the winding roll or shaft by means of a link
 35, and this link is pivotally supported
 upon the forward end of an overhanging
 arm 36, the latter being secured at the
 proper elevation preferably by means of a
 forked shank 37 which lies behind the base
 21 of the arm-supporting bracket member
 for which purpose the upper portion of this
 base is offset forwardly, as shown.

According to the present invention, awn-
 ings of the class described can be mounted
 with the greatest facility, the adjustable
 bracket not only enabling the inclination of
 the awning arms to be adjusted, but also
 enabling each arm to be mounted so as to
 fold toward the right or toward the left as
 may be desired, thus obviating the necessity
 of providing special arms and brackets for
 the purpose.

I claim as my invention:—

1. In an awning of the class described, the
 combination of an arm for holding the awn-
 ing in extended condition, and a bracket for
 supporting said arm at different inclinations
 comprising a fixed member, and a head con-
 nected to the awning arm and having means
 for centering and locking it adjustably and
 reversibly at either side of said fixed member.

2. In an awning of the class described, the
 combination of an arm for holding the awn-
 ing in extended condition, and a bracket for
 said arm comprising a fixed member having
 centering and locking devices formed at op-
 posite sides thereof, and a pair of heads, one
 head being connected to said arm and both
 heads having means to interchangeably in-
 terlock with and center themselves relatively
 to the locking devices at opposite sides of
 said member.

3. In an awning of the class described, the
 combination of an arm for holding the awn-
 ing in extended condition, and a bracket for
 rigidly supporting said arm at different in-
 clinations comprising a fixed bracket mem-
 ber having an opening therein the walls of
 which form locking devices, and a member
 having means for connecting it to said arm
 and interlocked with the locking devices of
 the fixed bracket member.

4. In an awning of the class described, the
 combination of an arm for holding the awn-
 ing in extended condition, and a bracket for
 supporting the arm comprising a fixed mem-
 ber having reversely tapered walls formed
 in its opposite sides, and a pair of heads

capable of being reversibly applied to and clamped against said walls, one of said heads having means for connecting said arm thereto.

- 5 5. In an awning of the class described, the combination of an arm for holding the awning in extended condition, and a bracket for adjustably supporting said arm comprising a relatively fixed member formed with a
10 flange, said flange having an opening there-through the walls of which are tapered toward opposite sides of the flange and formed with circumferentially spaced teeth, a pair of heads having correspondingly
15 tapered and toothed peripheries and fitted into said opening from the opposite sides of said flange, one of said heads being connected to said arm, and means connecting said heads and operative to hold said heads
20 in positive locked relation to said fixed member.

6. In an awning of the class described,

the combination of a laterally foldable arm for holding the awning in extended condition, and a bracket for supporting said arm 25 at different desired inclinations comprising a relatively fixed member having reversely arranged locking surfaces formed in its opposite sides, a pair of heads having locking surfaces adapted to reversibly cooperate 30 with those of the fixed member, means connecting said heads for retaining them in locked relation, means on one of said heads for pivotally connecting said arm thereto, and a pair of limiting stops formed on said 35 head and cooperative with said arm.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LOUIS A. DAUS.

Witnesses:

J. WILL. GLEICHMAN,
ARMAND. R. EMBICH,