

Dec. 23, 1930.

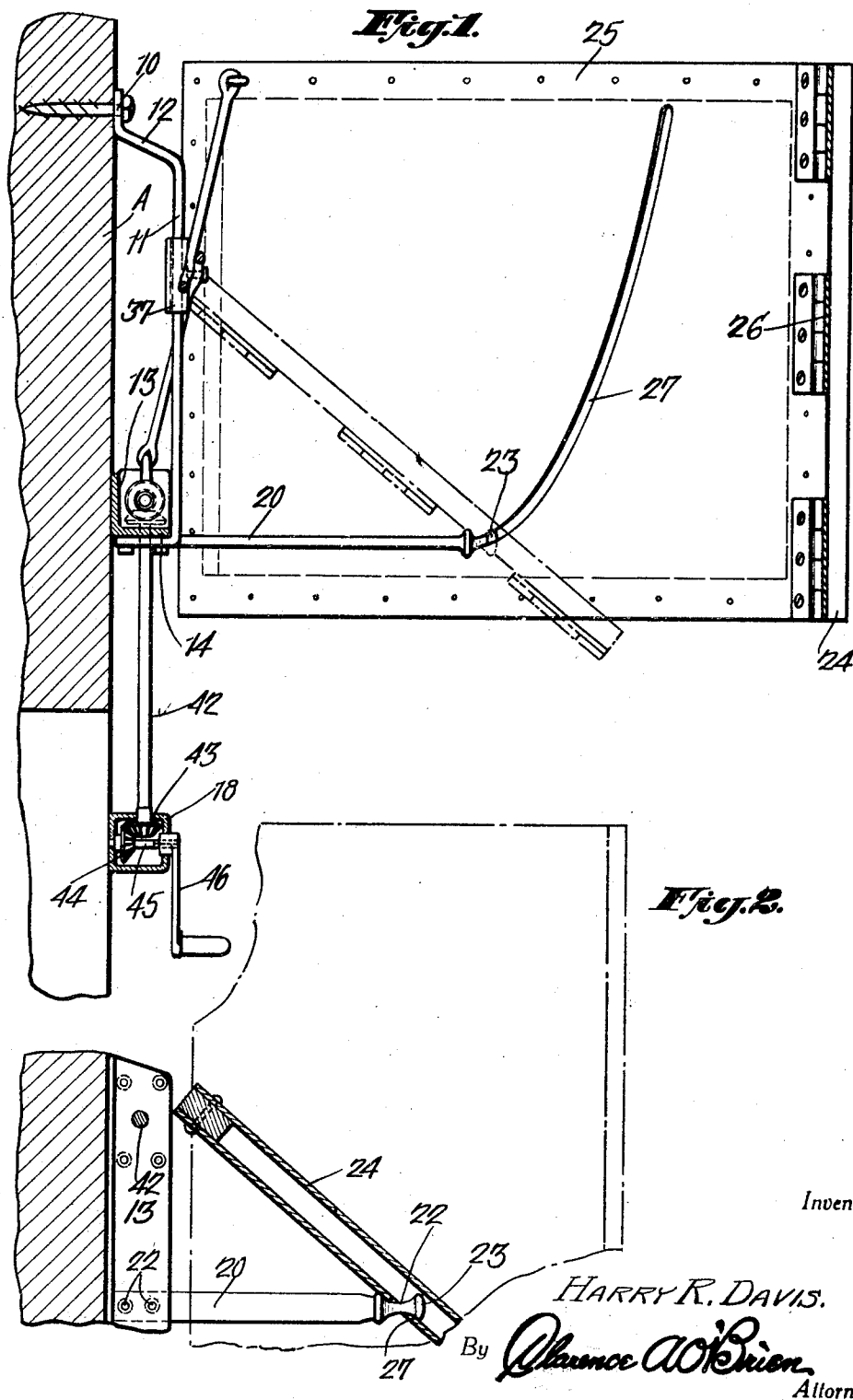
H. R. DAVIS

1,785,809

COMBINATION SIGN AND AWNING

Filed Aug. 20, 1930

2 Sheets-Sheet 1



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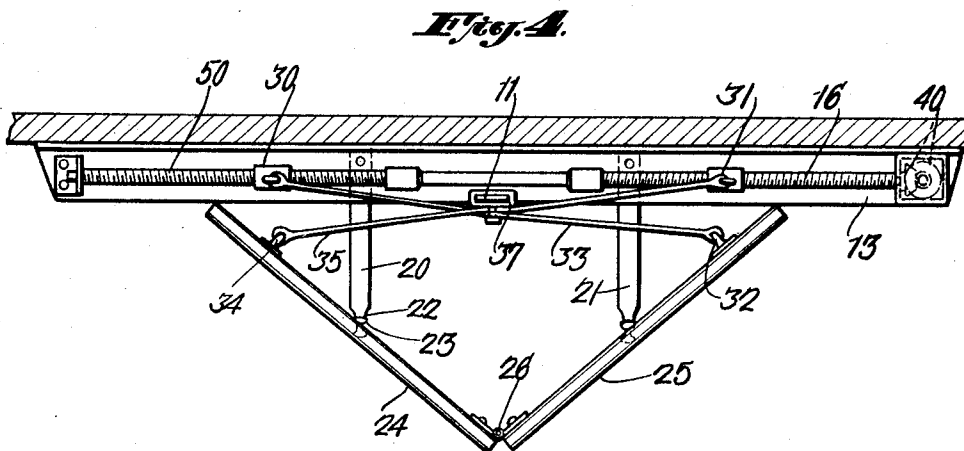
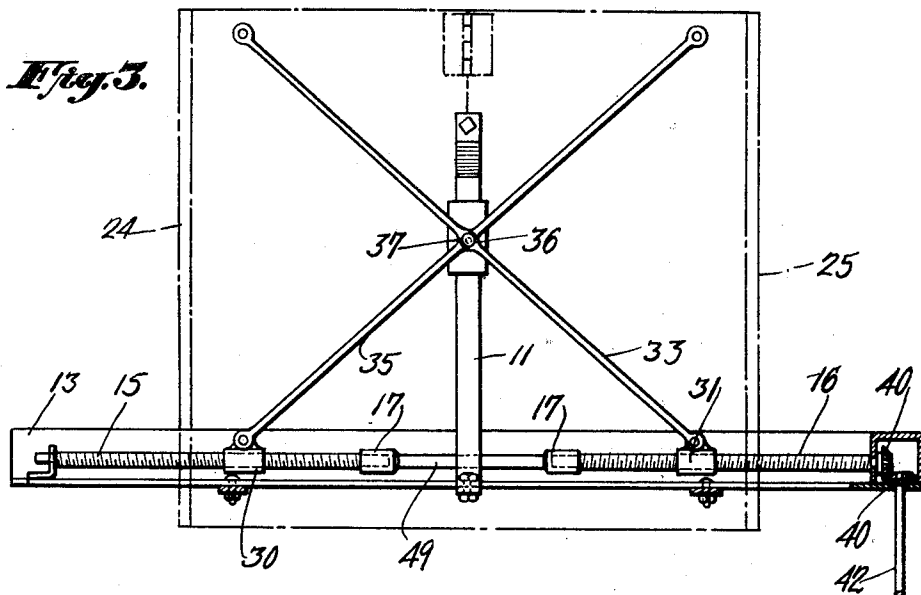
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2 Sheets-Sheet 2



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COMBINATION SIGN AND AWNING

Application filed August 20, 1930. Serial No. 476,690.

This invention relates to new and useful improvements in a combination sign and awning, and the invention aims to provide a device which may be used as an awning, and when not in use as an awning may be moved to a display position, and used as a sign.

It is one of the objects of the invention to provide a device which although primarily used as an awning, may be so positioned that when it is not desired to use the device as an awning, it will occupy a display position in which position it may be used as a sign.

It is a further object of the invention to provide a new and novel means for supporting the device in such a manner that it may be positioned in a downwardly inclined plane to serve as an awning, or in a vertical or up-standing plane to serve as a display sign.

To the above ends, the device comprises two substantially rectangular flat members hingedly connected together, each of said members being supported from the wall of a building, and operating means whereby upon operation thereof the two members will be moved into a position wherein they occupy the same relative plane and are inclined with respect to the wall of a building, or the members may be moved to a position in which they are at right angles to each other but each in a vertical plane in order to display the outer surfaces or faces thereof as a sign.

With the above and other objects in view, reference is had to the accompanying drawings in which,

Figure 1, is a view partly in section and partly in elevation of a device constructed in accordance with the present invention, illustrating one of the members in the vertical plane in sign display position in full lines, and in broken lines in the inclined position in which the member serves as an awning,

Figure 2, is a detail sectional view illustrating the manner in which the members forming the combined sign and awning are mounted,

Figure 3, is a rear view in elevation illustrating the operating mechanism of the members, and;

Figure 4, is a top plan view of the device showing the members in sign display position.

Referring to the drawings by reference character, A represents the wall of a building, and secured thereto as at 10, there is a depending bracket 11 which is offset as at 12 to space the bracket from the wall A. Secured to the wall as at 13, there is a channel member 14, and mounted in this channel member, there are two screws 15 and 16 as best seen in Figures 3 and 4. The inner ends of the screws may be mounted in suitable bearings 17. Mounted below the angular member 14, there is a housing 18, and the purpose of this housing will be hereinafter more particularly described.

Projecting from the wall at substantially right angles thereto, there are two arms 20 and 21, and each of these arms is provided on its outer ends with a reduced portion 22 and a head 23. These arms 20 and 21 may be secured to the angular member 13 as at 22.

The reference characters 24 and 25 designate two substantially rectangular flat members which are hingedly connected together as at 26. As more clearly illustrated in Figure 1, each of these members is provided on its rear face with a curved guide slot 27, and the head 23 of the arms 20 and 21 are adapted for operation in the guide slot 27 of their respective member 24 or 25 as more clearly illustrated in Figure 1. Carried by the screws 15 and 16 heretofore mentioned, there are sleeves 30 and 31 respectively. The sleeve 30 is connected with the upper outer corner of the member 35 as at 32 by a link 33, and the sleeve 31 is connected to the upper outer corner of the member 24 as at 34, by a link 35. The links 33 and 35 cross each other and are pivotally connected together and to a sleeve 37 as at 36. The sleeve 37 is slidably mounted upon

the guide 11 and is adapted to move vertically thereof.

From the foregoing, it will be apparent that as the screws 15 and 16 are rotated, the sleeves 30 and 31 will be caused to travel along the respective screws 15 and 16, and that such action will rock the links 33 and 35 about their pivotal points in the manner of a toggle mechanism. This action will cause the sleeve 37 to ride the guide 11, and this entire mechanism will serve to move the members 24 and 25 relative to each other about their hinged connection 26.

For moving the screw 16, one of said screws is provided with a bevelled gear 40 which meshes with a bevelled gear 41 carried on the upper end of a shaft 42 the lower end of which carries a bevelled gear 43 which meshes with a bevelled gear 44 carried by a shaft 45 adapted to be operated by a crank 46. The gears 43 and 44 and the shaft 45 are mounted in the housing 18 heretofore mentioned. Thus it will be seen that upon rotation of the crank 46, through the medium of the gears 44 and 43, the shaft 42, and the gears 40' and 40, the screw 16 will be rotated and through the medium of the connecting member 49, the screw 15 will likewise be rotated to move the sleeves 30 and 31 therealong to effect operation of the links 33 and 35.

The device operates in the following manner.

In Figure 4, the two members 24 and 25 are shown disposed at substantially right angles to each other, and in a vertical plane, in which position these members serve as a sign, and are so positioned as to display any suitable reading matter which may be provided upon their outer face. If now the crank 46 be grasped and through the medium of the gears and shafting heretofore described, the screws 15 and 16 be rotated so that the sleeves 31 move towards the outer ends of the screws, the member 37 will move downwardly on the guide 11 and the members 24 and 25 will be spread apart about their hinged connection 26 to a position where they occupy the same plane. During this movement, the movement of the heads 23 through the curved slot 27, tend to move the members 24 and 25 into the same plane, and upon movement of the headed members 23 through their respective slots 27, the members 24 and 25 will be moved to the broken line position shown in Figure 1. In this position, the members 24 and 25 project downwardly and outwardly from the wall A and serve as an awning.

From the foregoing, it will be apparent that the present invention provides an awning which may be used either as an awning, or which may be moved to a display position to serve as a sign.

While the invention has been herein disclosed in what may be termed a preferred form, it is to be understood that the invention

is not to be limited to the specific construction herein shown, and that it may be practiced in other forms without departing from the spirit thereof.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

1. A device of the character described comprising a suitable support, a plurality of arms projecting from said support, a sign member mounted for universal swinging movement upon each of said arms, said sign members being hingedly connected together, and means for moving said sign members about said arms to position them in various angular positions relative to said support.

2. A device of the character described comprising a pair of members hingedly connected together, means for mounting said members upon a suitable support, and means for moving said members about their hinged connection, and their mounting to position said members at right angles to each other in a vertical plane, and for moving said members into the same plane and at an angle with respect to said support.

3. A combined sign and awning comprising two members hingedly connected together, means for supporting said members from the side wall of a building, and means for moving said members about their support to a declined position relative to the wall of the building to form an awning from said members, and for moving said members into a vertical plane at right angles to the wall of the building to form a sign.

4. A combined sign and awning comprising two hingedly connected relatively flat members each of which is formed with a curved guide slot in its rear face, a single supporting arm for each member, a head upon each arm, each head operating in the guide slot of its respective member, and means for moving said members about their respective supporting arm and cause said members to position themselves in the same angular plane or in a vertical plane at right angles to each other as and for the purpose set forth.

5. A combined sign and awning comprising two relatively flat members each provided with a curved guide slot, supporting means engageable in the guide slots of said members, means for hingedly connecting said members together, and means for moving said members about their hinged connection, and their respective support to cause the members to assume a downwardly inclined position to provide an awning, or to assume a vertical position at right angles to each other to provide a sign.

6. A combined sign and awning comprising two relatively flat members each provided with a curved guide slot, supporting

means engageable in the guide slots of said members, means for hingedly connecting said members together, and means for moving said members about their hinged connection, and their respective support to cause the members to assume a downwardly inclined position to provide an awning, or to assume a vertical position at right angles to each other to provide a sign, said means comprising a pair of alined screws, sleeves surrounding said screws, operating links connecting said sleeves with said members, and means for operating said screws.

In testimony whereof I affix my signature.

HARRY ROBERT DAVIS.