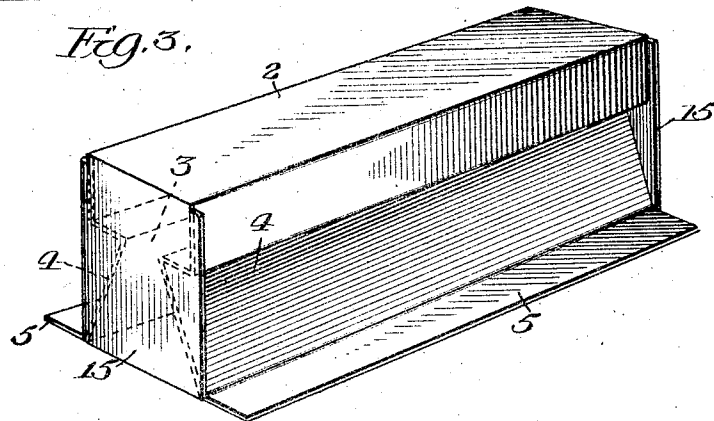
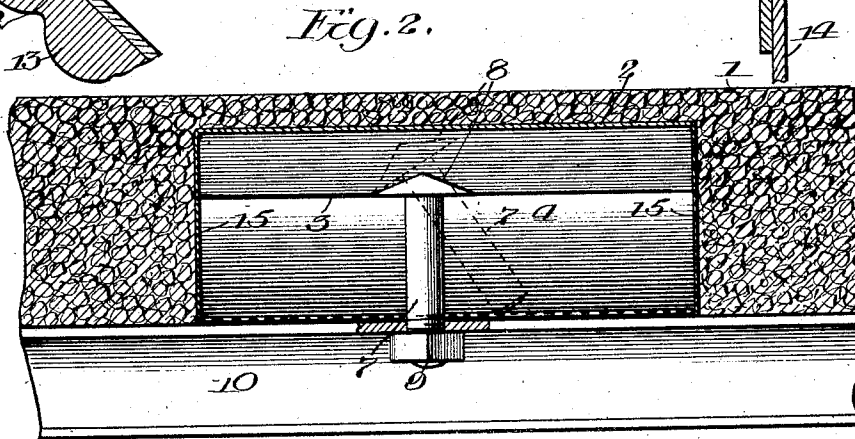
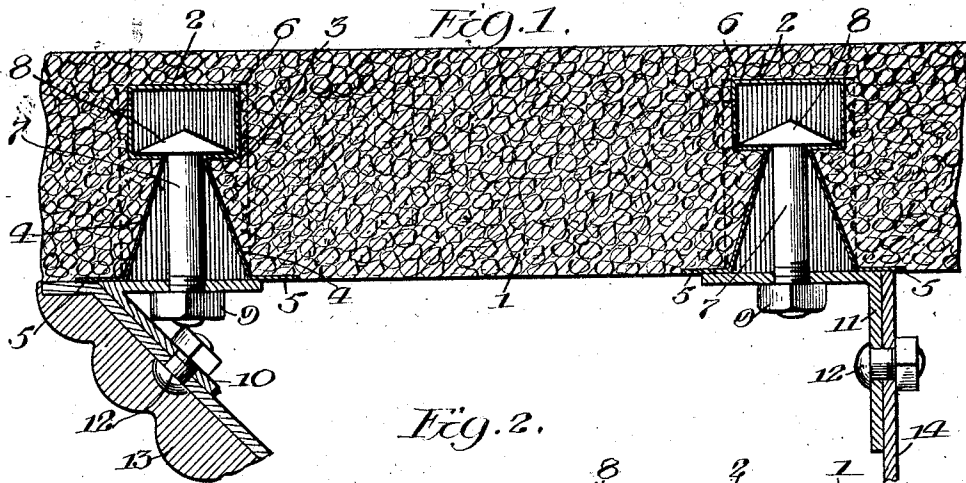


W. GOSS.
HANGER SUPPORT.
APPLICATION FILED JULY 29, 1910.

1,021,867.

Patented Apr. 2, 1912.



Witnesses
C. W. Hennich
Hazel Jones

Inventor:
William Goss:
by May W. Zabel atty

UNITED STATES PATENT OFFICE.

WILLIAM GOSS, OF CHICAGO, ILLINOIS.

HANGER-SUPPORT.

1,021,867.

Specification of Letters Patent.

Patented Apr. 2, 1912.

Application filed July 29, 1910. Serial No. 574,491.

To all whom it may concern:

Be it known that I, WILLIAM GOSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Hanger-Supports, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to hanger supports and more particularly is associated with means for supporting, from a ceiling or other similar means of supporting, interior decorations or fixtures.

My invention in its broad aspect comprises a channeled member adapted for placing within masonry or concrete or similar material which defines the outline of the concrete and provides a duct or channel within which these supporting means are held, and within which they are adjustably mounted.

My invention contemplates that the channel or run way project into the concrete or cement and thus be securely retained therein so that the supporting means are rigidly supported. In the construction of cement ceilings for instance, it is desirable that the channel or slot be formed therein as the concrete is being put into place, and my invention contemplates that a suitable metal lining for the slot be placed upon the centering or false woodwork which confines the cement or concrete as it is shoveled into place. My improved device preferably with the supporting means or bolt in place is mounted upon this false woodwork and the concrete then filled in. By means of my device the supporting means are so mounted therein and the space left unoccupied by concrete is of such a character that the device together with its bolt may be mounted in place and the concrete then placed around it, whereafter the false woodwork is removed and the bolt assumes its normal position in which it projects beyond the space occupied by the temporary wood work.

I will explain my invention more in detail by reference to the accompanying drawing illustrating one embodiment thereof in which:

Figure 1 is an end view partly in section of my improved device mounted in place;

Fig. 2 is a longitudinal sectional view thereof; and Fig. 3 is a perspective view thereof.

As shown in the illustrations, I use a metal device which forms the lining for concrete 1, and which consists of a preferably rectangular portion 2 forming a channel or slot which is partly closed along its lower edge, but is left open to provide a slot 3. From the extremities of this slot 3 two diverging aprons 4, 4 extend downwardly and end in preferably horizontal extensions 5, 5. By means of the horizontal extensions 5, 5, the device may be mounted upon the false wood work or centering, not shown herein, which is first mounted in place to confine the space occupied by the concrete or cement to be shoveled in later. After the centering is in place, and my improved device mounted thereon where the channel 6 is to be provided, concrete is filled in and the centering removed which thereby provides the construction as illustrated in Figs. 1 and 2. A bolt 7 having a head 8 is mounted within the device and is adapted to slide longitudinally thereof so that it may be adjustable.

It will be noted that the channel 6 is considerably higher than the head 8, and this is for the purpose of permitting the bolt to occupy the position shown in dotted lines in Fig. 2. The bolt should occupy this position when the centering is in place, and my improved device is in position awaiting the introduction of the concrete or cement. If the bolt does not occupy this position, the centering would have to be specially constructed to accommodate the bolt, and this would be extremely annoying and probably fail of securing accurate results. The bolt is provided with a nut 9 to which suitable angle pieces 10 and 11 may be secured. The angle piece 10 by means of the bolt 12 may hold the ornamentation 13 as shown in Fig. 1, or may be used to support a plate, or woodwork 14 as also illustrated in Fig. 1.

I am not limiting myself of course to the apparatus which may be supported from the bolt.

When the device is first mounted in place end pieces 15, 15 are provided to close up the end openings so as to prevent the concrete from entering within the interior of the device. It will be noted more clearly

from Fig. 1 that the projections provided by the slot 6 are supported by the concrete 1 and thus enabled to support heavy weights. The concrete under these projections forms
5 part of the entire mass of concrete and is thus bonded together to resist a pull stronger than would be necessary merely to shear the projecting portion of the concrete.

While I have herein shown and described
10 the preferred embodiment of my invention, I do not mean to limit myself to this precise construction and arrangement, but

Having thus set forth my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a device of the character described the combination with a metal frame comprising a head or channel portion closed at its top and sides and having flange portions
20 projecting inwardly from the lower extremity of each side portion but spaced apart so as to provide an opening or slot, the flange portions offering support for a headed bolt, closely engaging the shank of the same, said
25 flange portions being extended downwardly and outwardly to form a flaring chamber within which the bolt shank and its engag-

ing nut may be carried during the molding of concrete about the hanger support.

2. In a device of the character described 30 the combination with a metal frame comprising a head or flange portion closed at its top and sides and having channel portions projecting inwardly from the lower extremity of each side portion but spaced apart so
35 as to provide an opening or slot, the flange portions offering support for a headed bolt, closely engaging the shank of the same, said flange portions being extended downwardly and outwardly to form a flaring chamber 40 within which the bolt shank and its engaging nut may be carried during the molding of concrete about the hanger support, said flange members at their lower extremities
45 terminating in horizontal diverging extensions whose outer surfaces are adapted to lie flush with the surface of the concrete body aforesaid.

In witness whereof, I hereunto subscribe my name this 22nd day of July A. D., 1910.

WILLIAM GOSS.

Witnesses:

HAZEL JONES,

A. LYDA JONES.