No. 720,623. PATENTED FEB. 17, 1903.

H. RUSSEL.

COMBINED CAP AND GIRDER SUPPORT.

APPLICATION FILED MAY 17, 1902.

NO MODEL.

Fig. 1.

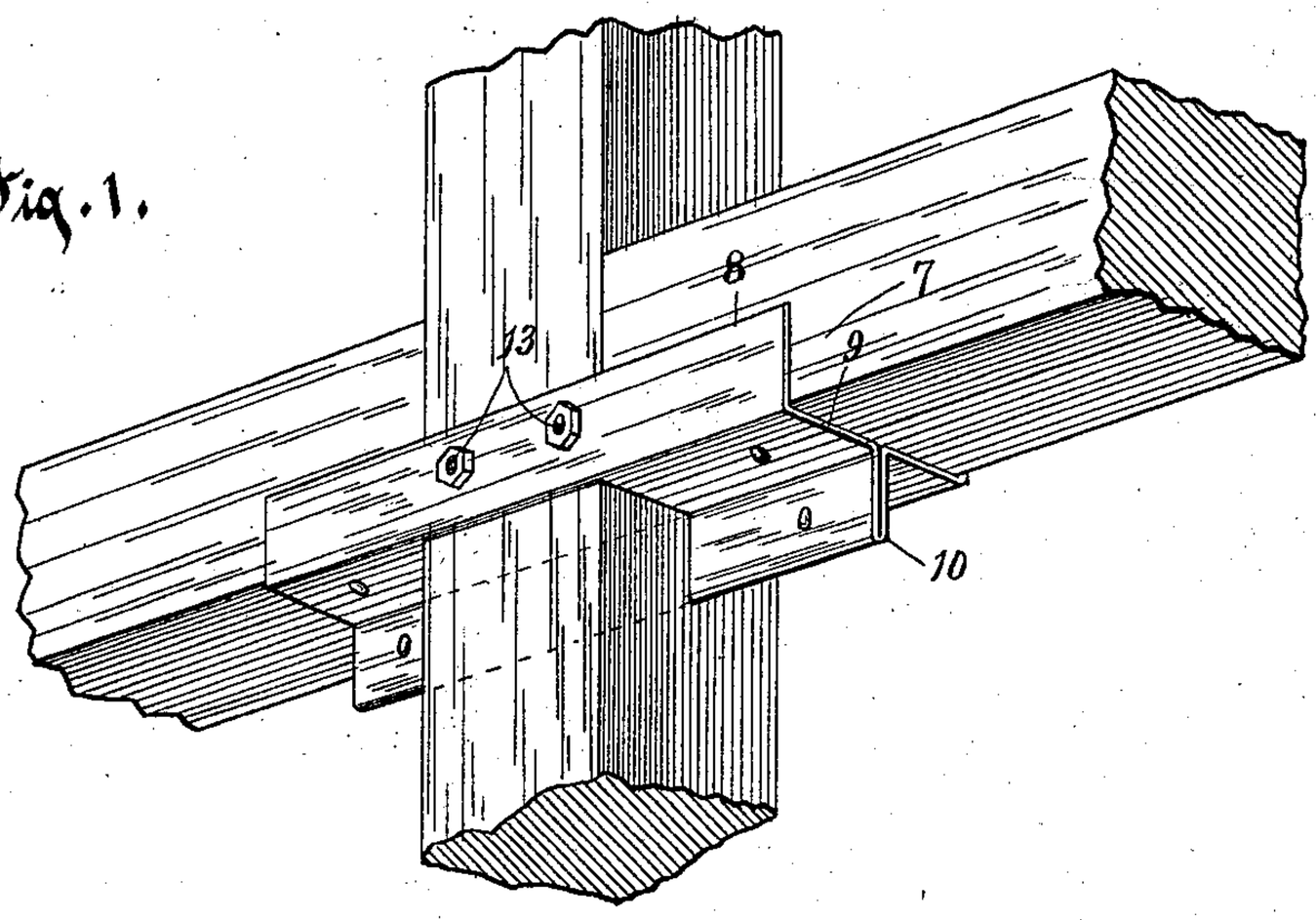


Fig. 2.

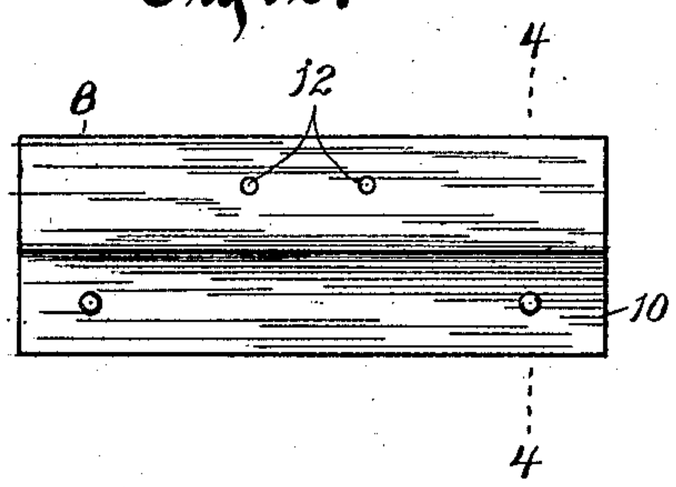


Fig. 2a.

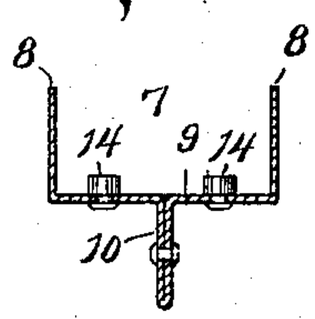


Fig. 3.

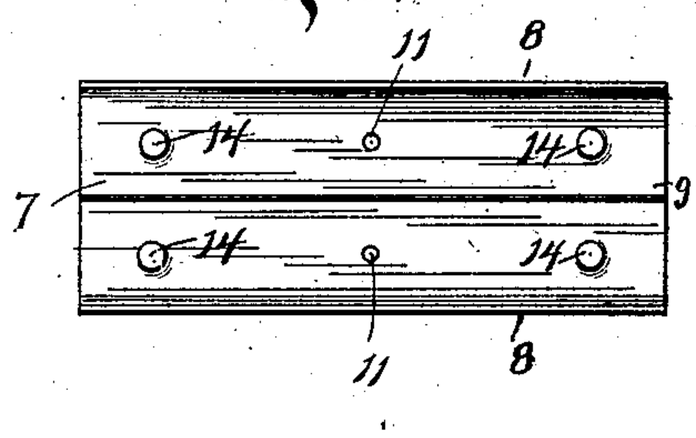


Fig. 5.

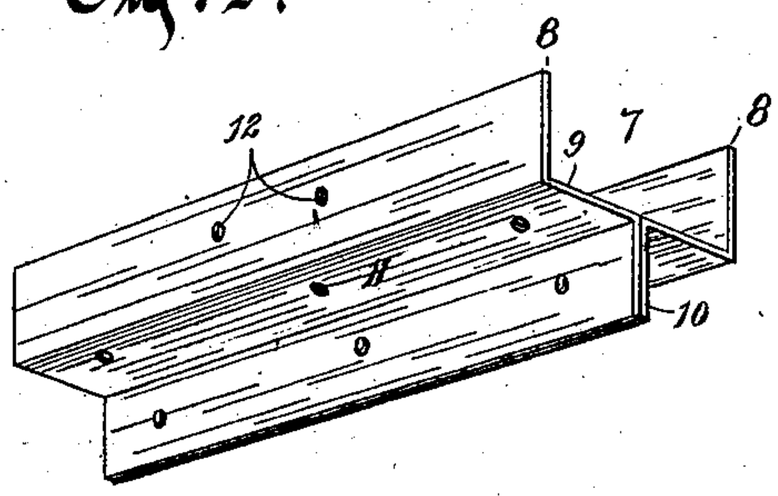
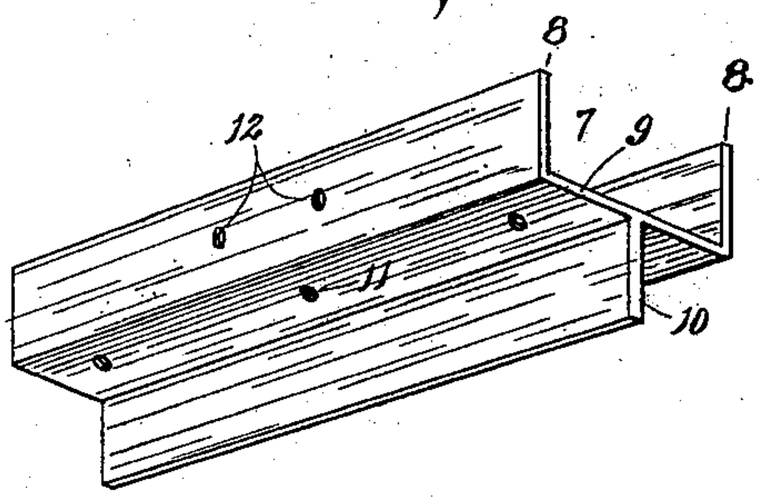


Fig. 6.



Witnesses.

C. A. Keeney.

Anna C. Faust.

Inventor.

Howland Russel

by Benedict, Morsell and Green

Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HOWLAND RUSSEL, OF MILWAUKEE, WISCONSIN.

COMBINED CAP AND GIRDER-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 720,623, dated February 17, 1903.

Application filed May 17, 1902. Serial No. 107,872. (No model.)

To all whom it may concern:

Be it known that I, HOWLAND RUSSEL, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in a Combined Cap and Girder-Support, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention relates to improvements in timber caps or seats and girder-supports for use in supporting the vertical posts and horizontal girders in buildings, and has for an object the production of a comparatively inexpensive but highly efficient device for supporting the superimposed post and the ends of the horizontal girders in such a manner that the loads carried by said girders will be transmitted evenly to the vertical supports.

The above and other objects I attain in a device constructed as described in the specification and illustrated in each of the forms shown in Figures 1, 5, and 6 of the drawings accompanying this application.

In the drawings, Fig. 1 is a view in perspective of one form of my device as it may appear in use when resting on a vertical supporting-post and supporting two horizontal girders and a superimposed vertical upright post. Fig. 2 is a side elevation of this device and will apply to any of the forms shown. Fig. 3 is a plan view of the device from above, and this view may be taken from either of the forms shown in Figs. 1 and 5. Fig. 4 is a cross-sectional view of the form shown in Fig. 1, taken on line 4 4 of Fig. 2 and illustrating the anchors, hereinafter described. Fig. 5 is a view in perspective of a form of this device modified from the form shown, Fig. 1. Fig. 6 is also a view in perspective of a form modified from that shown in Fig. 5.

Throughout the several figures like elements are denoted by like characters.

The device comprises a channel in which the foot of the supported upright or vertical post and the ends of the two horizontal girders are adapted to lie and to be held against lateral movement by the side walls of the channel, a central strengthening rib or web depending below the channel and formed integral with the floor thereof and extending from end to end of the device and placed so as to lie within the kerf or slot extending through the top of the supporting post or upright.

In the devices of this class illustrated in the prior art of which I am cognizant the longitudinally-extending flanges below the channel are adapted to lie without or on the side of the supporting-post.

In my device the strengthening-rib lying within the supporting-post is itself strengthened by being held on each side by the post, which tends to prevent the rib from buckling.

The device in all its forms may be cast from suitable metal, such as steel or iron; but it will be preferable to shape the same by rolling or bending pliable metal of uniform thickness.

In Fig. 1 the device is shown in one piece-bend, with the strengthening-rib made of a fold of the metal.

In the Fig. 5 style the device is formed in halves of two sections of Z-shaped bars, firmly united by means of suitable bolts or rivets passing through registering holes in the two sections of the strengthening-rib.

In the Fig. 6 style the device is shown as rolled or cast, with the strengthening-rib formed solid and therein only differing from the two other styles.

The channel in all of the styles is designated by the numeral 7 and is formed by the side walls 8 and floor 9, which floor in styles 1 and 5 has a joint throughout its length along its center.

The depending or strengthening rib or flange is numbered 10.

Midway of the floor and preferably at the center of each half thereof is a hole 11, and through these holes suitable spikes may be driven into the supporting-post, which will assist in assembling the parts. Two bolt-holes 12 are provided at each side, and the holes of each bore register, so that bolts may be passed through the supported or upper vertical post, and in Fig. 1 bolts 13 are shown. Two anchors or anchoring-studs 14 are provided for each girder, which will fit within holes bored in the girders for their accommodation, and these anchors are preferably in the form of short stud-pins having a small

part adapted to be passed through holes in the floor thereof and to be upset or riveted on the under side to secure them to the floor.

Having thus described my invention, I claim—

1. A combined post cap, seat, and girder-support, having a horizontal floor of such length that the ends thereof will extend beyond the upright post to which the cap is adjusted, and said floor provided with a continuous, longitudinal, central depending web or rib adapted to pass through a kerf, or slit cut to receive it in the top of the supporting-post.

2. In a combined post-cap and girder-support, a channel to receive the foot of the superimposed post and the ends of the girders, and of such length that the ends thereof will extend beyond the upright post, and provided with a strengthening-rib depending from the under side of the floor of said channel substantially from end to end of said channel.

3. A combined post cap, seat, and girder-support, formed from one piece of pliable metal, of substantially uniform thickness, rolled, shaped or bent to provide a channel for the support of the superimposed post and the ends of the girders, with a depending web or rib formed of a fold of the metal, extending substantially from end to end thereof, substantially along its center.

4. In a combined post-cap and girder-support, a channel for the support of the ends of the girders and the upper post, a central, depending strengthening-rib extending substantially from end to end of said channel, and anchoring members extending into said channel, to hold the ends of the girders in place.

5. In combination with a combined post cap, seat, and girder-support having a horizontal floor and a longitudinal depending web or rib, of an upright supporting-post provided in its upper end with a kerf or slot to receive the depending rib or web, an upright superimposed post supported by the floor of the cap, and horizontal girders having their ends supported by said floor of the cap.

6. The combination of an upright supporting-post provided in its upper end with a kerf or slit, a combined post-cap and girder-support fitted to the upper end of the supporting-post, and having a horizontal floor the ends thereof extending beyond the upright post, and provided with a longitudinal, depending rib or web fitting the kerf or slit of said upright supporting-post, and horizontal girders having their ends supported by said floor of the cap.

7. A combined post cap, seat, and girder-support having a horizontal floor and a continuous, longitudinal, central depending web or rib extending in the direction of the line of the axis of the girders, and adapted to engage a kerf or slit, cut to receive it, in the top of the supporting-post.

In testimony whereof I affix my signature in presence of two witnesses.

HOWLAND RUSSEL.

Witnesses:

ANNA V. FAUST,

C. H. KEENEY.