June 23, 1931. H. W. ROOS 1,811,094

SHORE ATTACHMENT

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Fig. 1

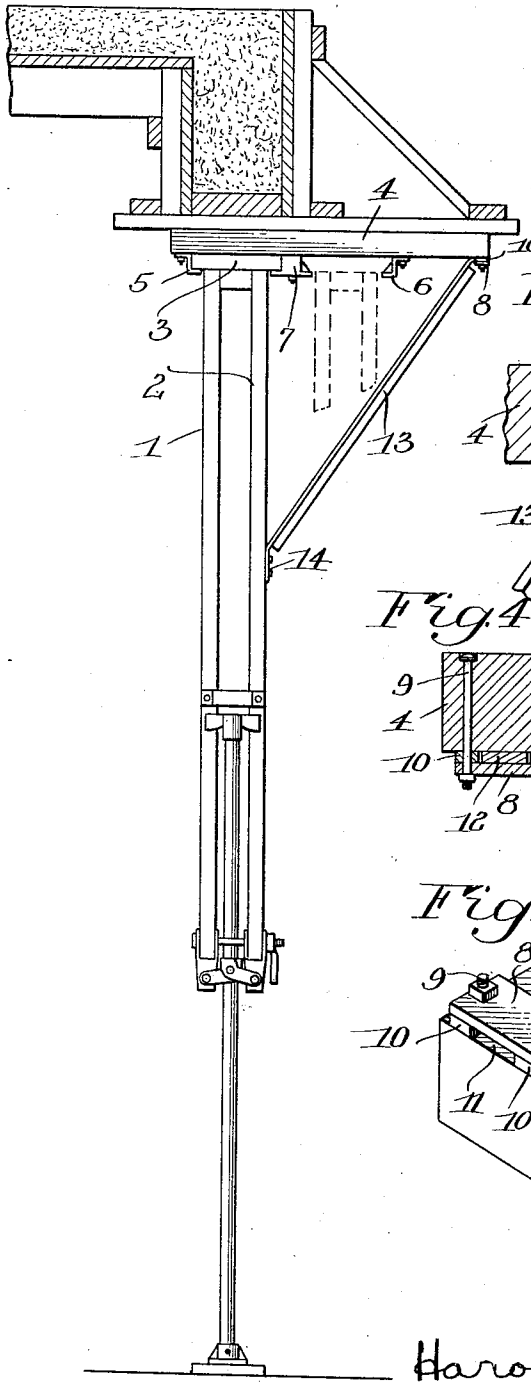


Fig. 2

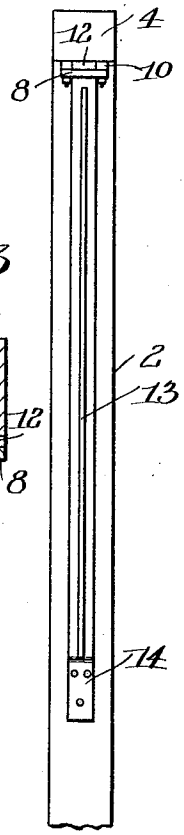


Fig. 3

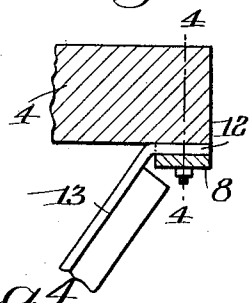
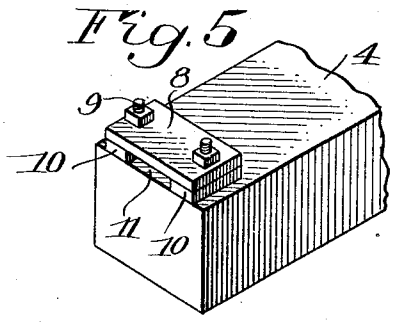


Fig. 4

Fig. 5



INVENTOR

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SHORE ATTACHMENT

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Fig. 6

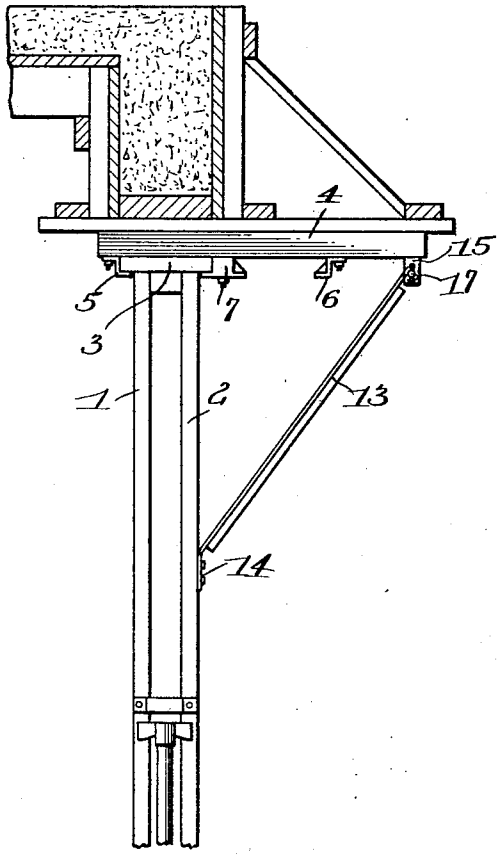


Fig. 7

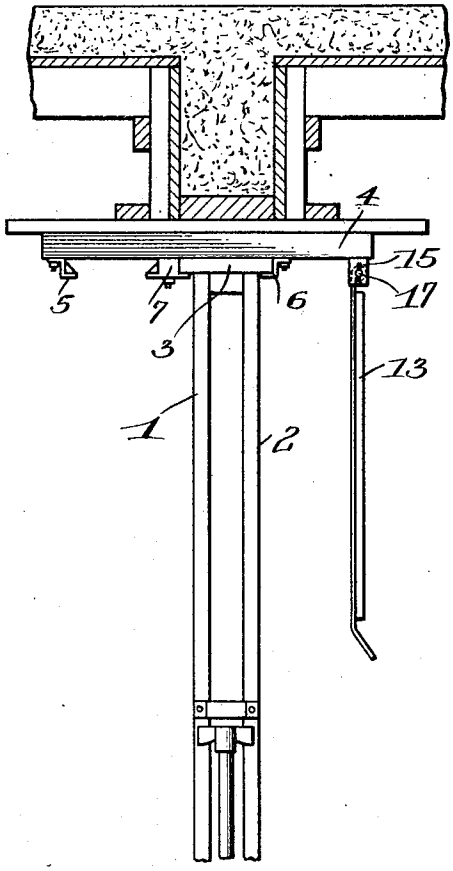


Fig. 8

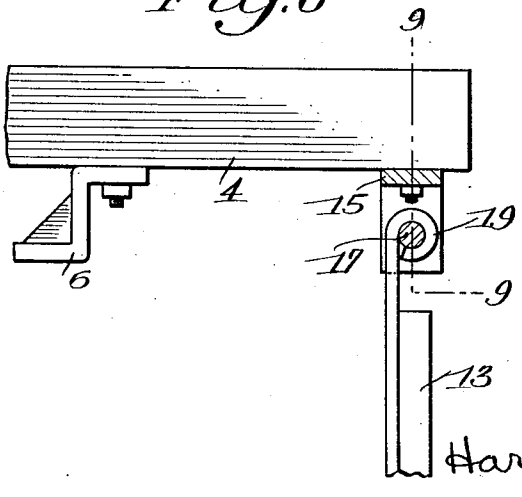
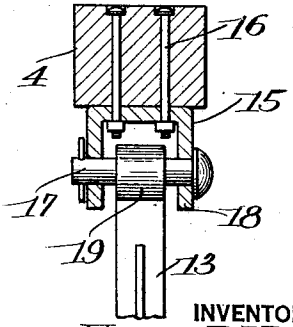


Fig. 9



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Patented June 23, 1931 1,811,094

UNITED STATES PATENT OFFICE

HENRY W. ROOS, OF CINCINNATI, OHIO

SHORE ATTACHMENT

Application filed December 1, 1926. Serial No. 152,033.

The invention relates to improvement in shore attachments, and has for its principal object to afford a portable, knock-down construction that can be readily assembled in operative relation and which serves to provide an extension and to effectively brace such extension for exterior beam shoring.

The present invention is in the nature of an improvement on the construction disclosed in my co-pending application filed July 13, 1926, Serial No. 122,102, now patent No. 1,722,312, and has for an additional purpose to eliminate the use of a metal extension member such as disclosed in said application and to mount the brace directly on the extension beam.

Another object of the invention is to afford a structure that permits of readily detaching the brace from the extension beam when the parts are not in use, and attaching the brace directly to the extension beam when it is necessary to assemble the parts on a shore.

A further object of the invention is to afford a simple and inexpensive brace supporting means attachable to the extension beam, and arranged so as to permit of quickly attaching the brace to the beam.

To these ends, the invention consists in the construction and arrangements that will appear from the following description, when read in conjunction with the accompanying drawings, the novel features being pointed out in the claims following the description.

In the drawings:

Figure 1 is a side elevation showing the invention in its preferred form, as applied to a conventional type of adjustable shore and illustrating its use in connection with an exterior beam;

Figure 2 is an enlarged edge view of the shore and extension beam, with the lower portion broken away;

Figure 3 is an enlarged sectional view illustrating the means for connecting the brace to the extension beam;

Figure 4 is a sectional view on line 4—4 of Figure 3;

Figure 5 is a perspective view partially broken away of the under side of the extension beam showing the brace supporting means;

Figure 6 is a view similar to Figure 1 of a modified form of the invention;

Figure 7 illustrates the extension beam shown in Figure 6 arranged for supporting an inside beam;

Figure 8 is an enlarged view of the outer end of the extension beam showing the brace supporting means in section, and

Figure 9 is a sectional view on line 9—9 of Figure 8.

While the invention is susceptible of use with different types of construction, I have illustrated it applied to a form of adjustable shore which includes a pair of upright members 1 and 2 connected at the top by a horizontal cross-head 3. When such a shore is to be used for an outside beam, such as shown in Figure 1, I employ an extension beam 4 provided with angle brackets 5 and 6 and a central bracket 7 so as to afford means for detachably engaging the cross-head 3 either at one end of the extension beam, as shown in full lines in Figure 1, as where the device is used for outside beams, or at the center of the extension beam, as shown in dotted lines in Figure 1, as where the shore is used for inside beams. When applied to an outside beam, it is necessary to brace the outer end of the extension beam, and it is desirable that this be done in such a way as to permit of quickly assembling the extension beam and brace in operative relation, and also of separating said parts when it is desirable to transport or ship the same. To accomplish this I employ the following construction.

Attached to the under side of the extension beam at its outer end is brace supporting means including a plate 8 detachably held in place on the beam by means of bolts 9 and separated from the beam by spacing blocks 10. The space between the blocks 10 affords a socket 11 to receive a horizontal extension 12 at the upper end of the brace member 13 which has an angularly arranged body portion and a vertical extension 14 at its lower end that is attachable by nailing, or otherwise, to the side of the shore, as

shown in Figures 1 and 2. With the construction just described, the brace member 13 is inserted into the socket 11 of the extension beam, after the latter is positioned on the cross-head of the shore, and the lower end of the brace can then be attached to the shore.

Figures 6 to 9 inclusive illustrate a modified arrangement of the invention, in which the brace is detachably mounted on the under side of the extension beam by a pivotal instead of a sliding connection. In this form of the invention, the supporting means consists of a bracket 15 attached to the under side of the extension beam at its outer end and held in place by bolts 16, while 17 is a removable pin mounted in ears 18 and pivotally supporting the upper end of the brace member which has an eye 19 formed thereon to engage the pin 17. The lower end of the brace member is attached to the side of the shore in the same manner as previously described.

While the invention has been set forth with reference to certain particular embodiments, it is not confined to the precise details herein disclosed, and this application is intended to cover any other modifications or departures coming within the intent of the improvements or the scope of the following claims.

I claim:

1. The combination with a shore, of an extension beam detachably mounted thereon, said extension beam projecting laterally from the head of said shore, a member extending parallel to and spaced from the under side of said extension beam so as to provide a socket between the member and the beam, and a brace arranged to extend obliquely between said extension beam and the body of said shore, said brace having an upper end bent at an angle to the oblique body of said brace so that said upper end extends horizontally and may be inserted in said socket by a horizontal motion, and a lower end attachable to the body of said shore.

2. The combination with a shore having a horizontal head with the ends thereof projecting beyond the sides of the shore, of an extension beam, means at one end of the beam for slidably engaging the ends of said head, brace supporting means at the other end of the beam, and a brace having one end slidably engaging said supporting means and its opposite end attachable to the shore.

3. The combination with a shore, of an extension beam detachably mounted on the shore, brace supporting means at one end of the beam comprising a broad plate attached to the underside of the beam in spaced parallel relation thereto affording a socket between the plate and the beam, and a brace arranged between the beam and the shore and having a flat plate integral therewith at one end and engageable in said socket and its opposite end attachable to the shore.

In witness whereof, I have hereunto signed by name.

HENRY W. ROOS.