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R. A. ARMIE

1,921,797

BRIDLE RING

Filed Dec. 2, 1931

Fig. 1.

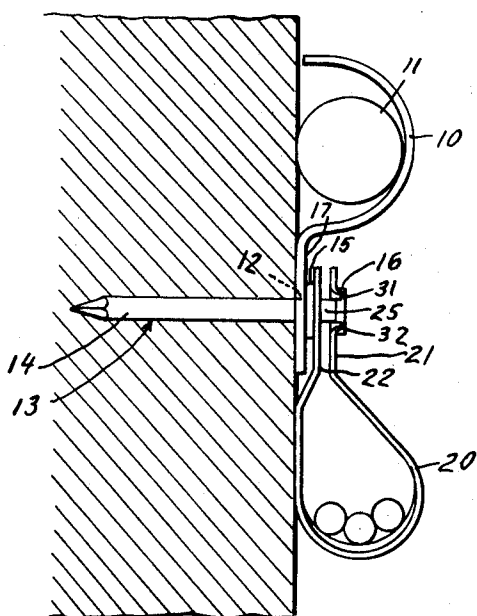


Fig. 2.

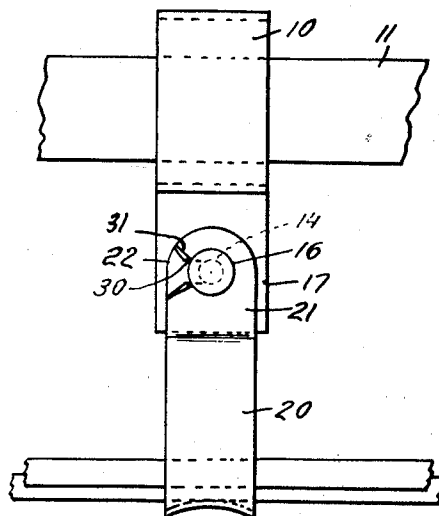


Fig. 6.

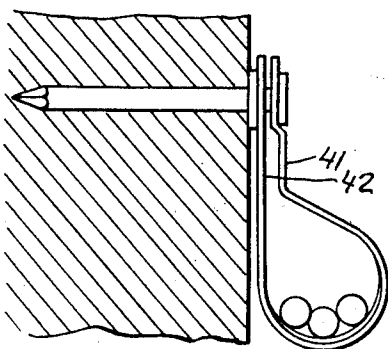


Fig 3.

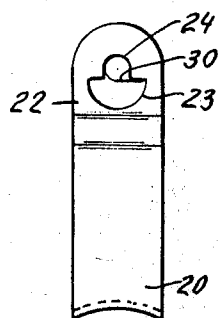


Fig. 4.

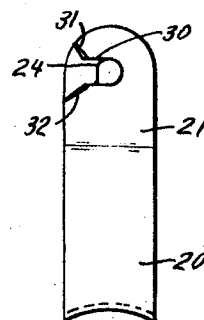


Fig. 5.

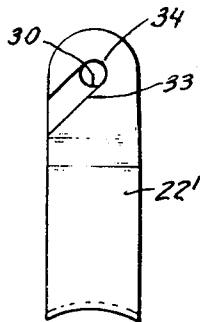


Fig. 7.

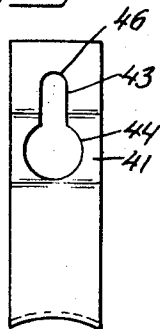


Fig. 8.

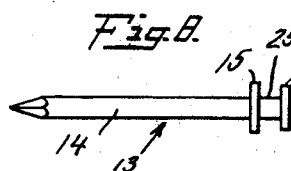


Fig. 9.



INVENTOR
Roy A. Armie
BY
Marshall T. Hawley
ATTORNEY

UNITED STATES PATENT OFFICE

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BRIDLE RING

Roy A. Armie, Ridgewood, N. J., assignor to J.
Edward Ogden Company, Inc., East Orange,
N. J., a Corporation of New Jersey

Application December 2, 1931. Serial No. 578,439

2 Claims. (Cl. 248—36)

This invention relates to bridle rings.

It is often desirable to support bridle rings or wires on cable clamp supports after the latter have already been erected and this is not possible with the ordinary type of support and bridle ring. With the constructions now in common use it is necessary to remove the supporting member and expansion shield provided the supporting member is held by an expansion shield and to use a new shield and a new supporting element on which the clamp and ring have been mounted. This, of course, requires a considerable amount of time and labor.

This invention has for its salient object to overcome the difficulty and to solve the problem above outlined by providing a support and bridle ring so relatively constructed and arranged that the ring can be easily and quickly mounted on the support without removing the support.

Another object of the invention is to provide a support and ring so constructed and arranged that the ring can be opened up without removal from the support to permit additional wires to be inserted therein or to permit the withdrawal of wires supported thereby.

Further objects of the invention will appear from the following specification taken in connection with the drawing which forms a part of this application, and in which

Fig. 1 is an elevational view showing a cable clamp and bridle ring mounted in position on a single support;

Fig. 2 is an elevational view taken at right angles to Fig. 1;

Fig. 3 is a rear elevation of the bridle ring;

Fig. 4 is a front elevation of the bridle ring;

Fig. 5 is a view similar to Fig. 3 showing a modified form of construction;

Fig. 6 is a view similar to Fig. 1 but showing a slightly modified form of bridle ring mounted on the supporting member;

Fig. 7 is a front elevation of the bridle ring shown in Fig. 6;

Fig. 8 is an elevational view of the preferred form of supporting member; and

Fig. 9 is an end elevation of the member shown in Fig. 8.

The invention briefly described consists of a bridle ring comprising a strip of resilient metal bent on itself to form a loop and having end portions arranged to be disposed in parallel relation to each other when the ring is closed. One of the end portions has an opening therein adapted to receive the head of the supporting member and a notch communicating with the opening for

receiving the shank of the member. In one form of the invention the other end portion of the bridle ring has a notch extending laterally thereinto from one side edge thereof and arranged to receive the shank of the supporting member. This portion is provided with means at the outer extremity of the notch for coaction with the head of the supporting member to hold the shank of the supporting member in the notch. In a modified form of the invention the end portions are provided with oppositely extending notches. In another embodiment of the invention key hole slots are formed in both end portions of the bridle ring.

Further details of the invention will appear from the following description.

In the embodiment of the invention illustrated in Figs. 1 to 5 inclusive there is shown a cable clamp 10 of the usual construction in which is mounted a cable 11. The cable clamp has an opening 12 through which is driven the supporting member which, in the preferred form of the invention, consists of a double headed nail 13 having a shank 14 and a pair of heads 15 and 16. The head 15 engages the shank 17 of the clamp and holds the clamp in position.

The double headed nail may, if desired, be used in connection with a drive-in expansion shield such as that shown in Patent No. 1,806,640, granted to Ralph E. Ogden, on May 26, 1931.

The bridle ring shown in Figs. 1 to 4 consists of a strip of resilient metal bent upon itself to form a loop 20 and end portions 21 and 22 which are arranged to be disposed in parallel relation to each other when the bridle ring is closed, as shown in Fig. 1.

The end portion 22 has an opening 23 dimensioned to receive the outer head 16 of the nail and also has a notch 24 communicating with the opening 23 and arranged to receive the portion 25 of the shank of the nail which is disposed between the heads 15 and 16.

The outer end portion 21 of the bridle ring has a notch 30 formed therein and extending thereinto from one of the side edges of the portion 21. The metal at the outer end of the notch 30 is bent outwardly, as shown at 31 and 32. The outwardly bent portions 31 and 32 are arranged to coact with the outer head 16 of the nail, as shown particularly in Fig. 2, and to prevent any accidental opening of the bridle ring.

The embodiment of the invention shown in Figs. 1 to 4 inclusive is used in the following manner: The outer head 16 of the nail is passed through the opening 23 and the portion 25 of the shank is entered in the notch 24. The wires to

be supported in the bridle ring are inserted in the loop 20, either before or after the end portion 22 has been mounted on the supporting member and the end portion 21 is then bent laterally relative to the portion 22 and is also bent toward the portion 22 and the shank 25 is entered in the notch 30. After the shank has seated in the inner end of the notch the pressure on the portion 21 is released and this portion will spring outwardly, positioning the outwardly bent portions or lugs 31 and 32 at one side of the head 16. This will prevent any lateral movement of the end portion 21 unless this portion is pressed toward the portion 22.

In Fig. 5 the rear portion 22' of the bridle ring has an inclined notch 33 arranged to receive the shank of the nail and the inner end 34 of the notch is alined with the inner end of the notch 30 in end portion 21. The ring is mounted on the nail by entering shank portion 25 in notch 33. Then the end portion 21 of the ring is placed on the shank as above described.

In the form of the invention shown in Figs. 6 and 7 the end portions 41 and 42 on the bridle ring are provided with key hole slots 43. The outer head of the nail is passed through the enlarged portions 44 of the slots and when the head has been passed through both of portions 44 in the two end portions 41 and 42 the bridle ring will be pulled downwardly to position the portion 25 of the shank of the nail in the elongated notches 46 of the key hole slots.

Although certain specific embodiments of the invention have been particularly shown and described, it will be understood that the invention is capable of modification and that changes in the construction and in the arrangement of the various cooperating parts may be made without

departing from the spirit or scope of the invention, as expressed in the following claims.

What I claim is:

1. A bridle ring for use with a headed supporting member and comprising a strip of resilient material bent upon itself to form a loop and substantially parallel inner and outer end portions, the inner portion having an opening dimensioned to receive the head of a supporting member and a recess adjoining said opening for receiving the shank of said member and the outer end portion having a notch extending thereinto from one side edge thereof for receiving the shank of the supporting member, and means at the outer end of said notch arranged to coact with the head of the supporting member for resiliently holding the outer end of the bridle ring against accidental separation of said head.

2. A bridle ring for use with a headed supporting member and comprising a strip of resilient material bent on itself to form a loop, and inner and outer end portions arranged to be moved into substantially parallel relation to each other, said end portions having notches to receive the shank of the supporting member, one of said end portions having an opening communicating with the notch therein and dimensioned to receive the head of the supporting member the other and outer end portion having its notch extending thereinto from one side edge thereof and being provided with outwardly projecting offset portions at the outer end of the notch arranged to coact with the head of the supporting member for releasably holding the outer end portion of the bridle ring against accidental separation from said head.

ROY A. ARMIE.