W. SCHAAKE.

TROLLEY HANGER.

APPLICATION FILED FEB. 4, 1918.

1,404,900. Patented Jan. 31, 1922.

Fig. 1.

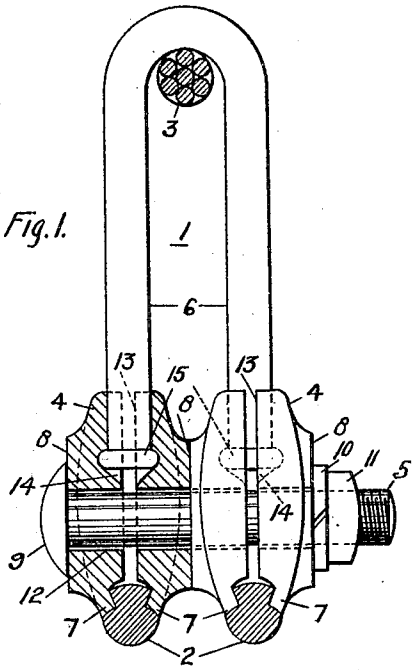


Fig. 2.

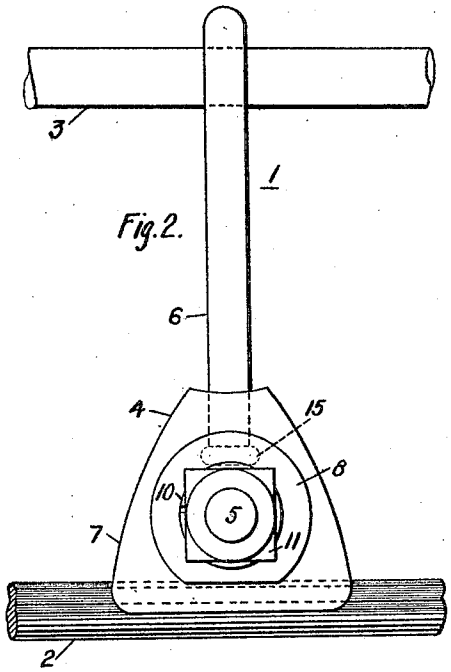
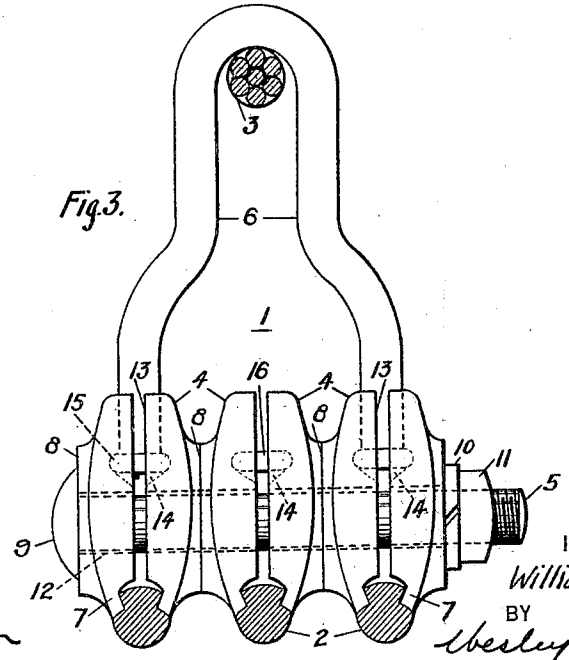


Fig. 3.



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TROLLEY HANGER.

1,404,900. Specification of Letters Patent. **Patented Jan. 31, 1922.**

Application filed February 4, 1918. Serial No. 215,383.

To all whom it may concern:

Be it known that I, WILLIAM SCHAAKE, a citizen of the United States, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Trolley Hangers, of which the following is a specification.

My invention relates to trolley hangers and particularly to means for supporting a plurality of trolley conductors from a messenger cable.

The object of my invention is to provide a structure of the above-indicated character that shall be simple and durable in construction and be adapted for rigidly supporting a plurality of substantially parallel trolley conductors in rigid relation at predetermined points thereof.

In practicing my invention, I provide similar clamping devices for the conductors that are adapted for co-operative relation with each other and a single means for clamping all of the parts in position.

Fig. 1 is an end view, partially in section, of a trolley hanger embodying my invention; Fig. 2 is a side view of the device as shown in Fig. 1; and Fig. 3 is an end view of a modified form of trolley-hanger embodying my invention.

A hanger 1 for suspending a plurality of trolley-conductors 2 from a messener cable 3 comprises, in general, a plurality of side-by-side clamping members 4, that are held together by a transverse bolt 5, and a hanger-rod 6 of U-shape that is also held in position, with respect to the clamping members 4, by the bolt 5 and embraces the messenger cable 3.

The clamping members 4 are provided with jaws 7 that are adapted to engage the conductors 2 in a well-known manner. Each of the clamping members 4 has plane outer side faces 8 so that such members may fit snugly against each other and against the head 9 of the bolt 5 and a washer 10 that is located between one of the clamping members and a nut 11. The members 4 are provided with transverse central apertures 12 through which the bolt 5 extends, whereby any number of such members may be readily mounted side-by-side, in accordance with the number of conductors 2 to be supported.

Inside faces 13 of the members 4 are provided with oppositely disposed recesses 14 for the reception of the enlarged ends 15 of the hanger-rod 6, the ends 15 being held in position by the members 4 and the bolt 5.

Fig. 3 shows an adaptation of my invention wherein three of the members 4 are used instead of only two, as in the other figures. Obviously, the device is readily applicable to any number of conductors, it being necessary only to supply a slightly modified form of the hanger-rod 6.

When it is desired to support more than two conductors, as in Fig. 3, by attaching the ends of the rod 6 to the outer clamping members, the intermediate recesses 14 may be occupied by a spacing lug 16 or the members 4 may be spaced apart in any other suitable manner. The bolt 5 thus serves as a single means to hold the individual members 4 in engagement with their respective conductors 2 and to secure the same to the hanger-rod 6.

While I have shown and described a particular form of my invention, many changes may be made therein without departing from the spirit and scope thereof, as indicated in the appended claims.

I claim as my invention:

1. A trolley-conductor clamp comprising a hanger of substantially inverted U-shape for suspension over a messenger cable and having enlarged lower ends, a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation and having co-operating adjacent portions, said ears having complementary interior recesses for the reception, in certain thereof, of said enlarged lower ends of the hanger, and a single transverse bolt for holding the several pairs of ears in co-operative relation with each other, with the hanger and with trolley conductors to be supported.

2. A trolley-conductor clamp comprising a hanger of substantially inverted U-shape for suspension over a messenger cable and having enlarged lower ends, a relatively-small spacing member, a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation and having co-operating adjacent portions, said ears having complementary interior recesses for the reception, in certain thereof, of said enlarged lower ends of the hanger

and in another thereof of said spacing member, and a single transverse bolt for holding the several pairs of ears in co-operative relation with each other, with the hanger, with the spacing member and with trolley conductors to be supported.

3. A trolley-conductor clamp comprising a hanger of substantially inverted U-shape for suspension over a messenger cable, a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation and contiguous ears of said pairs having co-operating portions, means for securing the lower ends of the hanger to certain of said pairs of ears and a transverse bolt extending through said ears for clamping all of the parts together.

4. A trolley-conductor clamp comprising a hanger for co-operation with a messenger cable, a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation, said ears having means for the reception, in certain thereof, of said hanger, and a transverse member for holding all of the parts together.

5. A trolley-conductor clamp comprising a hanger of substantially inverted U-shape for suspension over a messenger cable, a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation and having co-operating adjacent portions, and means for securing the hanger to the clamping ears and for securing the ears to each other.

6. A trolley-conductor clamp comprising a plurality of pairs of complementary trolley-conductor clamping ears disposed in side-by-side relation and having co-operating adjacent portions, and means for supporting and securing the clamping ears to each other.

In testimony whereof, I have hereunto subscribed my name this 31st day of Jan., 1918.

WILLIAM SCHAAKE.