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C. P. SORENSEN ET AL

HOLDER FOR CONDENSERS

Filed Jan. 22, 1925

Fig. 1

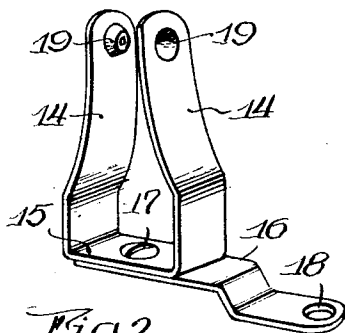
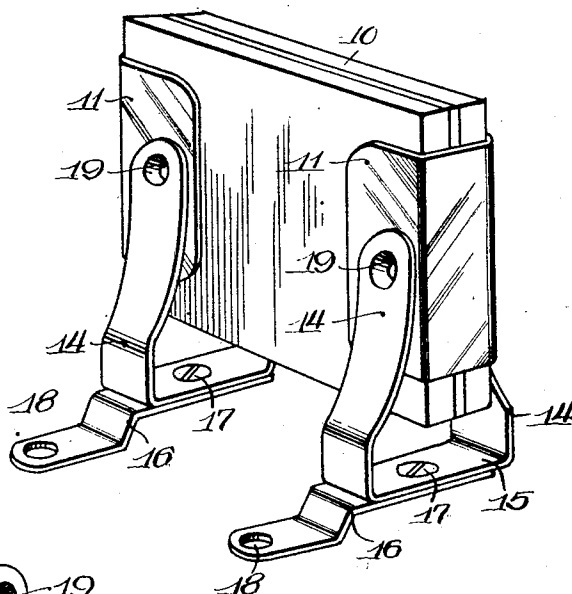


Fig. 2

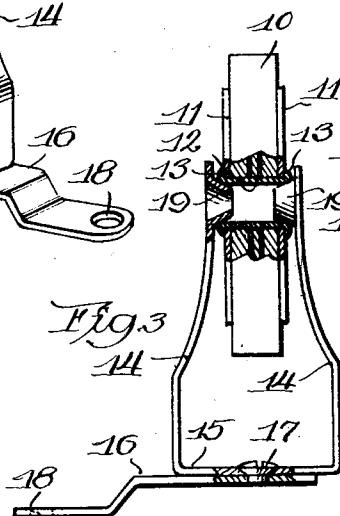


Fig. 3

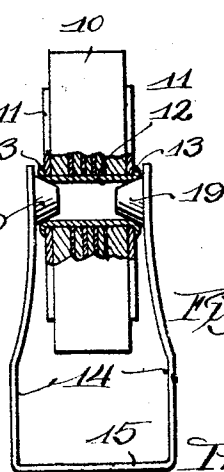


Fig. 4

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UNITED STATES PATENT OFFICE.

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HOLDER FOR CONDENSERS.

Application filed January 22, 1925. Serial No. 4,024.

To all whom it may concern:

Be it known that we, CARL P. SORENSEN and ROBERT W. SATTERHOLM, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Holders for Condensers, of which the following is a specification.

This invention relates to improvements in holders for fixed condensers for radio apparatus.

The wires of a radio apparatus are usually secured to the fixed condenser by soldering the same directly to the condenser with the result that when the hot iron contacts with the condenser, considerable damage will result.

Furthermore, considerable damage is caused when a superfluous amount of flux is used in the soldering operation.

Heretofore when it was desired to remove the condenser the wires or conductors had to be detached therefrom.

It is one of the objects of the present invention to overcome these difficulties and objections and to provide an improved holder for removably holding the condenser in position and to which holder the wires are secured, thereby rendering it possible to readily insert and remove the condenser without interfering with the wires or conductors and at the same time there will be insured a tight and positive connection between the parts.

A further object is to provide an improved holder of this character which is adapted to receive and interchangeably hold condensers of different sizes and capacities.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty in substantially the construction and in the combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawing in which:

Figure 1, is a perspective view of a pair of holders constructed in accordance with the principles of this invention, and with a small fixed condenser in position therein.

Figure 2, is a detail perspective view of one of the holders.

Figure 3, is a view in end elevation, partly in section and partly broken away showing one size of condenser in the holder.

Figure 4, is a view similar to Figure 3,

showing another size condenser in the holder and with parts omitted.

Referring more particularly to the drawing the numeral 10 designates some usual form of fixed condenser having contact plates or clips 11 secured thereto in the usual manner such as by means of eyelets 12, the extremities of which eyelets are flanged over and against the plates 11 as at 13.

The holder consists of a single piece of material suitable for the purpose, the ends of which are bent to form arms 14, the intermediate portion 15 constituting a base.

The arms are of any desired length and configuration, are resilient and diverge from the base portion 15 towards but terminate short of each other to form a substantially U shaped holder or clip.

The base portion 15 may be removably secured to a suitable bracket 16 of any desired configuration, by means of a suitable fastening device such as a screw 17 and the bracket may be secured to a suitable support, preferably by means of a fastening device passing through an opening 18 in the bracket and into the support.

Obviously the bracket 16 may be dispensed with and the holder may then be secured directly to the support.

Portions of the free ends of the arms 14 are preferably struck up to form lugs or projections 19 which extend toward but terminate short of each other. These lugs or projections are preferably tapered toward the extremity thereof so as to facilitate their entrance into the respective ends of the eyelet 12 of the condenser, and are of such a size and diameter that the adjacent faces of the arms 14 will be held out of engagement with the ends of the eyelet and also the plates or clips 11 to decrease the resistance to the current through the condenser.

One of these holders may be employed at each end of the condenser and as they are constructed of conducting material the conductor wires may be attached to or connected directly to the holder thereby obviating the necessity of securing the wires directly to the condenser. This will prevent injury to the condenser and avoid the danger of contacting the condenser with a hot iron.

The arms 14 being resilient, it will be manifest that they will readily yield to permit the insertion or interchanging of a condenser of one size and capacity for a condenser of a larger or smaller size or capaci-

ty, as may be desired, without disconnecting the conductor wires.

In Figure 3, a condenser of one size and capacity is shown in position in the holder
5 and in Figure 4, a condenser of another size and capacity is shown in the holder.

With this improved construction there is provided an improved holder into which a Micadon or any other fixed condenser may
10 be inserted without danger of the condenser being contacted with a hot soldering iron usually employed to secure the conductor or wire to the condenser and into and out of which the condenser may be readily inserted
15 or removed.

While the preferred form of the invention has been herein fully described and shown, it is to be understood that various changes may be made in the details of construction and
20 in the combination and arrangement of the several parts, within the scope of the claims, without departing from the spirit of this invention.

What is claimed as new is:

25 1. A holder for small fixed condensers, said holder embodying spaced resilient arms for receiving the condenser therebetween, and means carried by the arms adapted to enter openings which extend through oppo-
30 site faces of the condenser.

2. A holder for small fixed condensers, said holder embodying spaced resilient arms for receiving the condenser therebetween, and opposed projections extending

beyond adjacent faces of the arms and
35 adapted to enter and be seated in openings which extend through opposite faces of the condenser.

3. A holder for small fixed condensers, said holder embodying spaced resilient arms
40 for receiving the condenser therebetween, and opposed projections extending beyond adjacent faces of the arms adapted to enter and be seated in openings which extend through opposite faces of the condenser, the
45 said projections tapering from the respective arms outwardly.

4. A holder for small fixed condensers, said holder embodying a body portion, spaced resilient arms diverging from the
50 body and terminating short of each other, and opposed substantially conical shaped upstruck portions on the arms adjacent their free ends, said upstruck portions adapted to
55 respectively enter openings extending through opposite faces of a condenser, portions of the diameter of the upstruck portions being greater than the diameter of the adjacent portion of the respec-
60 tive openings in the condenser, whereby said upstruck portions of the arms will maintain the adjacent faces of the said arms out of direct contact with the condenser.

In testimony whereof we have signed our names to this specification, on this 17th day
65 of January, A. D. 1925.

CARL P. SORENSEN.
ROBERT W. SATTERHOLM.