

Nov. 17, 1931.

C. E. MAIER

1,832,036

CONDENSER

Filed Oct. 14, 1929

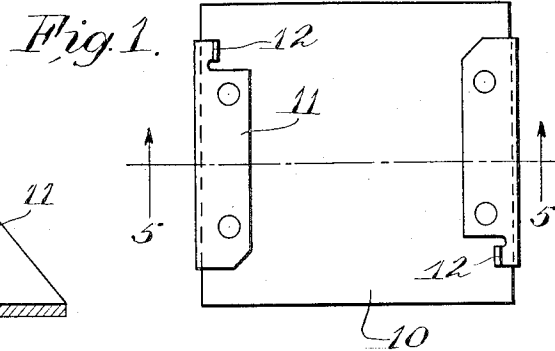
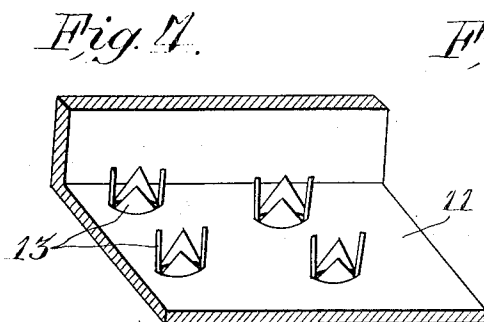


Fig. 3.

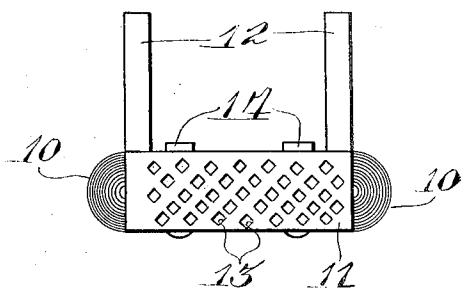
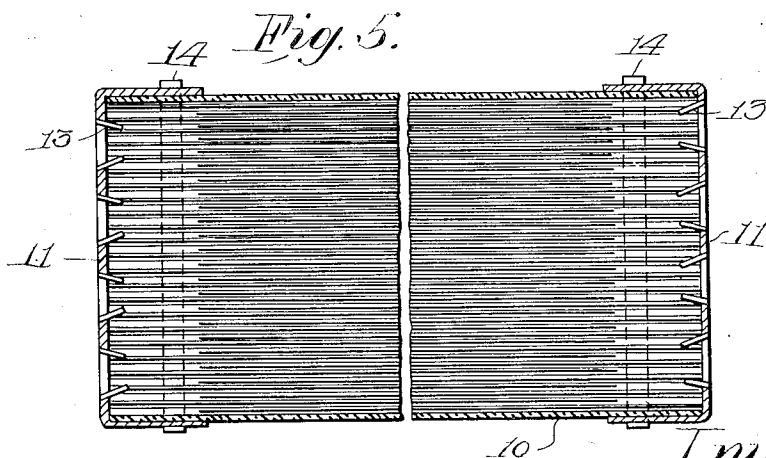
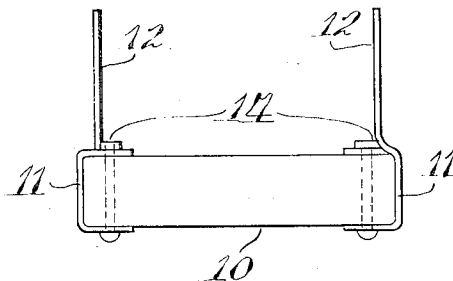


Fig. 5.



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CONDENSER

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This invention relates to condensers and more particularly to an improved form of terminal clip for a roll type of condenser.

The object of the invention is to provide a terminal clip for a roll type of condenser in which the clip is so constructed and associated with the condenser body that a better electric or metallic contact between the body and clip will be afforded.

A practicable embodiment of the invention has been chosen for purposes of illustration in the drawings, in which drawings,—

Figure 1 is a plan view of a roll type of condenser with the improved clips associated therewith;

Figure 2 is a side view;

Figure 3 is an end view;

Figure 4 is an enlarged, fragmentary, perspective view of a portion of the clip; and,

Figure 5 is an enlarged view in cross section as appears along the line 5—5, looking in the direction of the arrows appearing in Figure 1, in which the thickness of the condenser has been exaggerated.

The roll condenser may be of standard type involving a rectangularly shaped body 10 formed by a pressed roll of alternately arranged tin foil strips and condenser paper strips, as indicated in Figures 3 and 5. Channel shaped terminal clips 11 are provided for the ends of the condenser roll pack, which clips are provided with the usual terminals 12. For the purpose of procuring a good metallic contact between the clip and the condenser pack, prongs 13 are formed in the clips, preferably by indenting or punching, said prongs being arranged in staggered relationship to each other and each indentation presenting multiple prongs adapted to bite into the condenser pack when the clips are forced over the ends of said pack, as clearly appears from the drawings, especially in the exaggerated view of Figure 5. Rivets 14 are then provided to secure the clips to the pack, as appears best in Figure 2.

As shown in Figure 5, in this type of condenser, alternating layers of paper indicated by the light lines, and tin foil indicated by the heavy lines are arranged in a stack, the paper layers extending the width of the stack

while the foil layers are narrower than the paper layers. The foil is so arranged in two sets that alternate layers thereof are relatively offset so that at each edge of the condenser one set of charge receiving foil layers projects beyond the other set of foil layers to form a single terminal foil mass into which the prongs bite. Such standard condenser pack is shown and described, for example, in the Deutschmann Patent Number 1,735,381 issued November 12, 1929.

With this perforated prong structure, it is now obvious that a good metallic connection is afforded between the body of the condenser and the terminal clips. Obviously in practice the prongs can be formed otherwise than by punching the same out. Accordingly, it is the intention in the following claims to cover any such immaterial changes in the illustrated embodiment herein disclosed as do not materially depart from the invention.

What is claimed as new is:

1. A metallic terminal clip for a flat, rectangularly shaped condenser pack embodying alternate layers of foil and paper, said clip comprising a channel-shaped piece embracing an edge of the pack, rivets passed through the sides of the channel piece and pack to secure the parts together, and prongs pressed from the end face of the channel piece, said prongs biting into the edge of alternate foil layers to make metallic contact of the clip with the foil.

2. A metallic terminal clip for a flat, rectangularly shaped condenser pack embodying alternate layers of foil and paper, said clip comprising a channel-shaped piece embracing an edge of the pack, rivets passed through the sides of the channel piece and pack to secure the parts together, and a plurality of pressed out indentations formed in the end face of the channel piece whereby each indentation provides multiple prongs, said prongs biting into the edge of alternate foil layers to make metallic contact of the clip with the foil.

3. A metallic terminal clip for a flat, rectangularly shaped condenser pack embodying alternate layers of foil and paper, said

clip comprising a channel-shaped piece embracing an edge of the pack, rivets passed through the sides of the channel piece and pack to secure the parts together, and a plurality of pressed out indentations formed in the end face of the channel piece and arranged in staggered relationship to each other, each indentation providing multiple prongs, said prongs biting into the edge of alternate foil layers to make metallic contact of the clip with the foil.

In testimony whereof I affix my signature.

CARL E. MAIER.