Aug. 29, 1933. W. J. HOMER 1,924,435

CONDENSER

Filed Feb. 12, 1932

Fig. 2

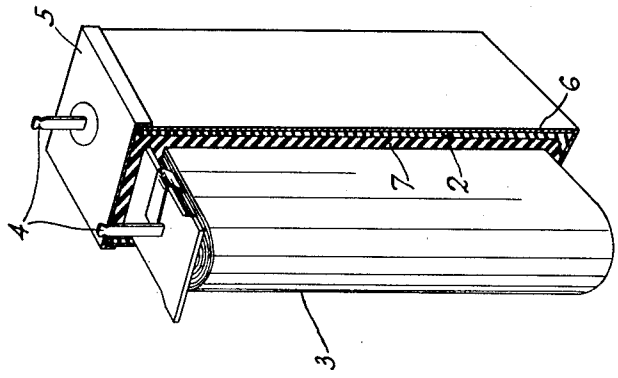
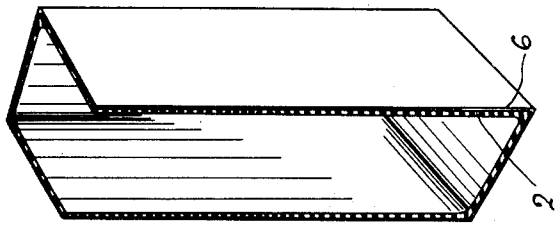


Fig. 1



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CONDENSER

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2 Claims. (Cl. 175—41)

This invention relates in general to sealed condensers and to an improved method of insulating and sealing the condenser units in their containers, which improved method consists in the formation of a layer of insulating material on the inside of the container before insertion of the condenser therein.

The usual condenser such as known especially to the telephone art comprises strips of conducting foil or the like and strips of paper or other insulating material wound in a roll and having terminals projecting therefrom, connected to the strips of foil.

In mounting and sealing such condensers it is essential that there be no possibility of the condenser unit touching the metal container. This is usually accomplished by dipping the condenser unit in wax or some other insulating compound and allowing it to obtain a coating of the compound before placing it in the container. The remaining space between the condenser unit and the container is then filled with more of the insulating compound.

The object of this invention is, therefore, to provide an improved method for presealing a condenser container in such a manner that contact in assembly between the condenser and the container is prevented, in addition to the sealing of any possible small openings in the container.

Details of my invention are shown in the accompanying diagrams in which:

Fig. 1 shows a section of a container 6 for a condenser, having its entire inner surface covered with a layer 2 of wax or other insulating compound as prepared to receive the condenser unit.

Fig. 2 shows a section through the assembly with the condenser unit 3 in place.

In practicing my invention I cause the layer of insulating compound to be deposited on the inside of the container by solidification from the melted state. This is brought about by having the container at a temperature below the melting point of the insulating compound then bringing the melted compound into contact with its inner surface. I prefer to accomplish this by pouring the container full of the melted compound, allowing it to remain long enough for only a portion of the compound to solidify, then pouring out the remainder. I do not wish to limit myself to forming the coating in this manner since there are other means for accomplishing the same result, such as holding the container over a jet of the melted compound. A layer 2 of insulating compound, of any desired thickness may be deposited inside of the container 6. This layer serves the purpose of sealing any small openings in the container as well as preventing contact between the condenser unit and the container.

Into the container prepared as above I place the condenser unit 3 then fill the remaining space with more of the insulating compound 7 so that only the terminals 4 project from the compound. This additional compound blends with the coating 2 of the container to effectively seal the condenser in the container. After the addition of the compound 7, the cover 5 with holes for the terminals 4 is placed on the open end of the container and pressed down into contact with the compound 7.

What is claimed is:

1. The method of sealing a condenser unit in a container which consists in filling the container with melted insulating compound, allowing part of the compound to congeal, removing the compound which is still liquid after a layer of the compound of the desired thickness has become congealed over the entire inner surface of the container, and of then placing the condenser unit in the container and pouring melted insulating compound into the remaining space so that it blends with the layer of compound attached to the container to seal the condenser in the container.

2. The method of insulating a condenser unit from its container which comprises, filling the container with melted insulating compound, allowing the compound to congeal around the entire inner surface of the container for a time dependent on the thickness of the layer desired, removing the compound not yet congealed, and of then placing the condenser unit in said container and filling the remaining space with insulating compound.

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