July 28, 1942. R. KIELHORN 2,290,912

CONDENSER ARRANGEMENT

Filed Jan. 27, 1939

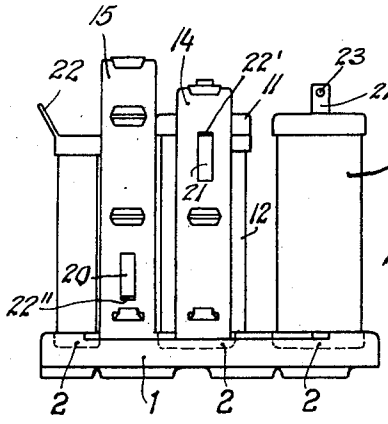


Fig. 1

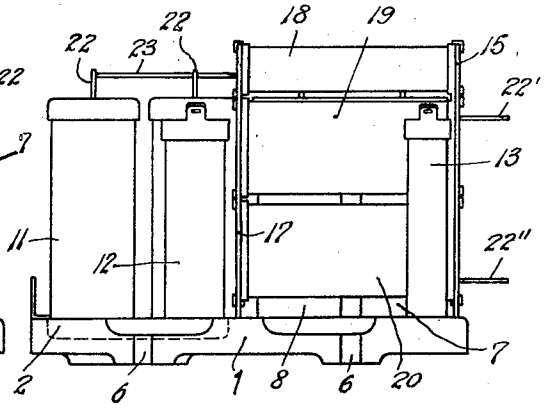


Fig. 2

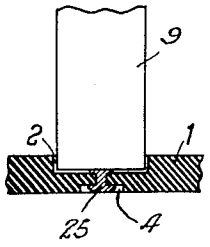


Fig. 4

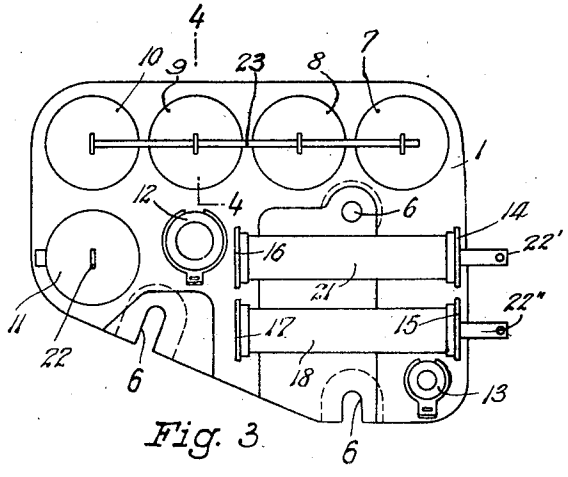


Fig. 3

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CONDENSER ARRANGEMENT

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Application January 27, 1939, Serial No. 253,154
In Germany January 26, 1938

2 Claims. (Cl. 175—41)

It is customary in high frequency systems to employ condensers of a definite capacity value which are composed of a number of component condensers mounted on a carrier or support common to them. This arrangement has the advantage that such condensers may be given any capacity value according to the number of unit condensers employed.

The invention aims to improve arrangements of this kind. To such end the component condensers are mounted in a ceramic base plate provided with recesses in which one end of the component condensers, which preferably are of cylindrical shape, is inserted.

In the accompanying drawing

Figs. 1 and 2 are elevations showing one embodiment of the invention, Fig. 3 is a plan thereof, while Fig. 4 represents a section on line 4—4 of Fig. 3.

In a ceramic base plate 1 recesses 2 are provided in which one end of cylindrical component condensers 7, 8, 9, 10 is seated. Preferably these condensers are partially made of ceramic material. The condensers 7, 8, 9, 10 are secured in these recesses by soldering. As the individual condensers are to be connected in parallel an excavation or groove 4 is provided in the lower surface of plate 1. This excavation is fitted with a metal coating, made of silver, for instance, and is filled with the solder 25 in such manner that by soldering the condensers to the plate 1 they will be electrically interconnected by the solder. Terminal lugs 22 may be provided to complete circuits for the circuit elements mentioned, as for example lug 22′ on element 21 and lug 22″ on element 20. A connection lead 23 serves to complete the parallel connection of elements 7, 8, 9, 10 by connecting their lugs 22. Similar excavations or grooves in base plate 1 may also be provided as required to make connections to further circuit elements 11, 12, and 13, as will be clear.

Furthermore, on plate 1 also supports 14, 15, 16, 17 are arranged to carry additional component condensers 18, 19, 20, 21 of a capacity smaller than that of the condensers 7, 8, 9, 10.

Plate 1 also has recesses 6 that serve to fasten the condenser arrangement.

What is claimed is:

1. A condenser arrangement comprising a ceramic base plate provided with recesses in its upper surface and holes in said recesses passing therethrough, cylindrical component condensers having one of their ends in these recesses, and solder in said holes in engagement with the lower surface of said base and fastened to the ends of said condensers.

2. A condenser arrangement comprising a ceramic base plate having a plurality of holes extending therethrough and a metal coated groove in the lower surface of said plate interconnecting said holes, a plurality of condensers positioned on the upper surface of said plate and solder in said groove and holes serving to interconnect said condensers.

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