Aug. 23, 1932. G. KNOPF 1,873,601

ELECTRICALLY HEATED MAT

Filed Jan. 31, 1931

Fig. 1

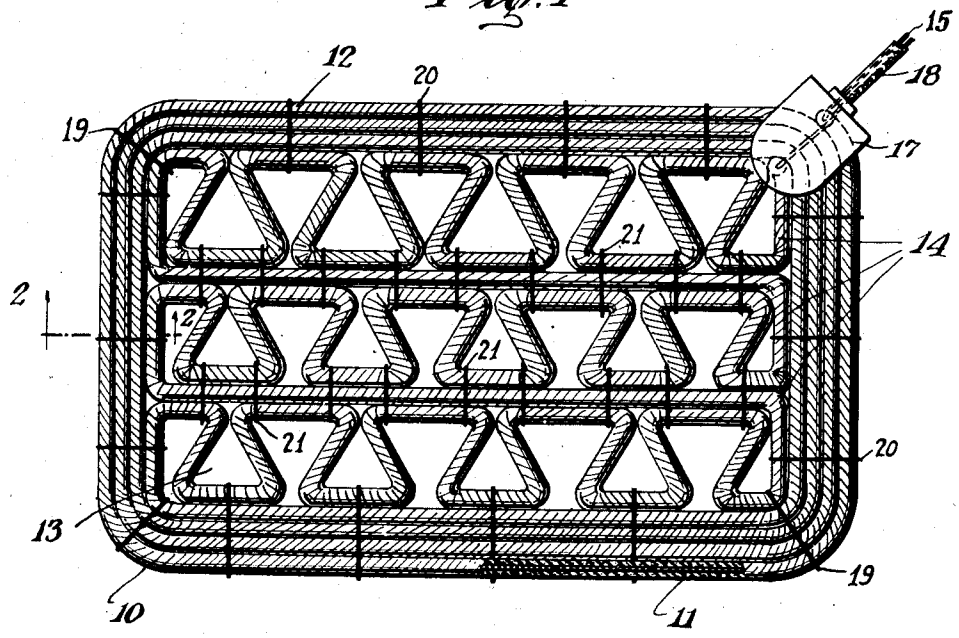


Fig. 2

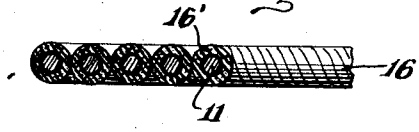


Fig. 3



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UNITED STATES PATENT OFFICE

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ELECTRICALLY HEATED MAT

Application filed January 31, 1931. Serial No. 512,581.

This invention relates to improvements in electric heating devices, and it is the principal object of my invention to provide an electrically heated foot pad in a moisture proof cover to keep the feet of the user warm and dry.

Another object of my invention is the provision of a foot pad or mat readily transported and placed for use in non-heated rooms which for one or the other reason cannot be properly warmed to keep the feet of automobilists, fliers, desk workers, store keepers, etc., warm and dry.

Yet another object of my invention is the provision of a foot mat of coco fibre or the like, having throughout the center of its strand means for heating the mat electrically.

A further object of my invention is the provision of an electrically heated foot mat or pad of simple and inexpensive construction, yet durable and highly efficient in use.

These and other objects and advantages of my invention will become more fully known as the description thereof proceeds and will then be specifically defined in the appended claims.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a top plan view of an electrically heated foot pad constructed according to my invention.

Fig. 2 is a section on line 2—2 of Figure 1.

Fig. 3 is a fragmentary detail view illustrating the construction of the strands forming the pad.

As illustrated the pad 10 is composed of an asbestos core 11 about which is wound in a plurality of convolutions a resistance wire 15.

The resistance wire 15 is wound about the inner core 11 and is surrounded by an outer cover or coating 16 insulated therefrom as at 16′ and of a material impervious to humidity as for instance coco fibre. The entire strand is wound about itself in a plurality of convolutions to form an outer margin or frame 12 and inner sections 13 preferably formed by substantially triangular elements 14. The ends of the resistance wire are connected to the strands of a cable 18 held in position by a plate 17 on one corner of the pad, said strands being connected to any source of electricity in the well known manner.

The operation of my device will be entirely clear from the above description and simultaneous inspection of the drawing, and it will be evident that upon connection of the wire in the mat with a source of electricity, the mat will be heated while protected against humidity, and will tend to keep the feet of users at all times warm and dry. The strands forming the frame of the mat are sewed together as at 19 and 20, and the inner substantially triangular elements are sewed together as for instance at 21 to hold the strands firmly in their place and to prevent their uncoiling and becoming entangled when moved from one place to another.

It will be understood that I do not desire to be limited to the exact construction disclosed, but may make such changes in the construction of the mat as come within the scope of the appended claims without departure from the spirit of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

An electric heating pad or mat formed of a continuous strand comprising an inner core, resistance wire wound about said core, and an outer water proof inculating cover formed with said strand, a plate for holding a cable connected to a source of electricity, said strand being then guided and firmly held in a plurality of parallel convolutions to form a substantially elongated frame or outer margin and then formed into and firmly held in a plurality of substantially triangular convolutions or elements arranged in juxtaposition within said outer margin, the strands of said cable connected to the end of said pad strand.

In witness whereof I have signed my name to this specification.

GERTRUDE KNOPF.