No. 772,063. PATENTED OCT. 11, 1904.

G. J. SCHNEIDER.

GLOVE FORMER.

APPLICATION FILED NOV. 19, 1903.

NO MODEL.

Fig. 1.

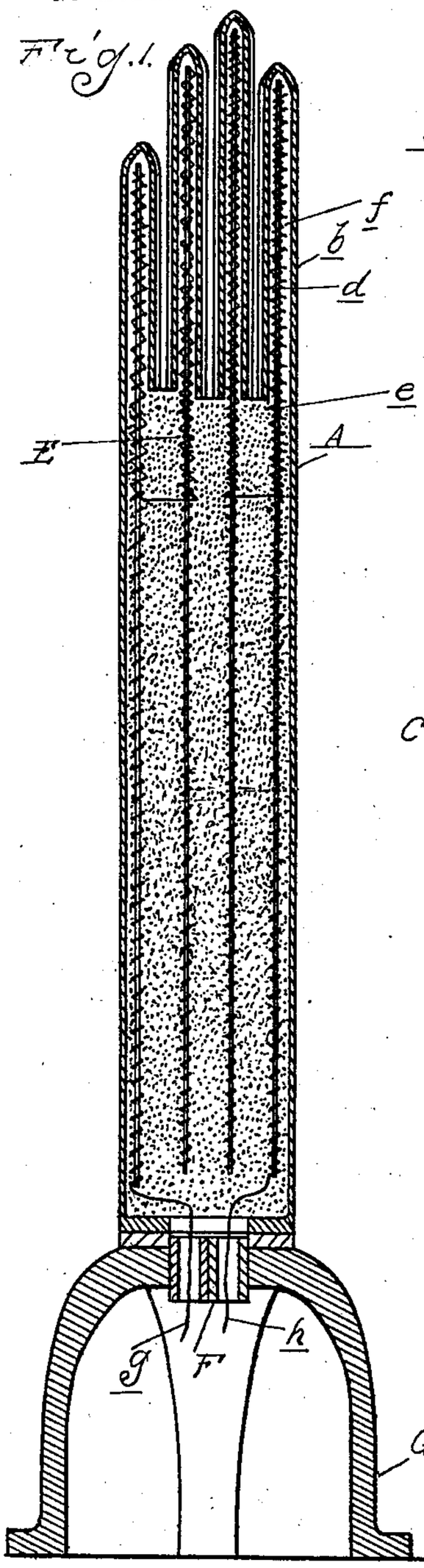


Fig. 2.

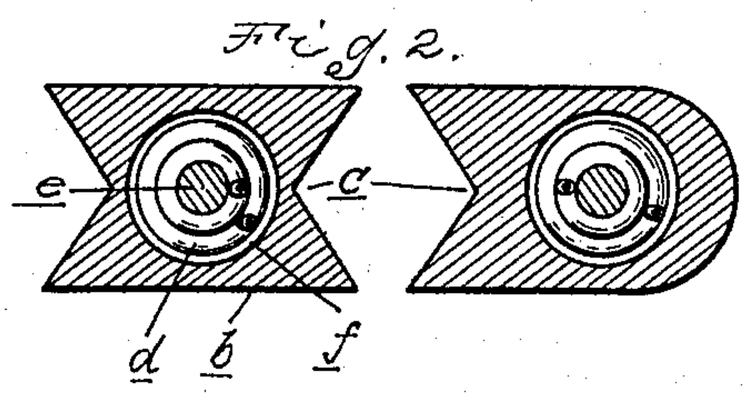


Fig. 4.

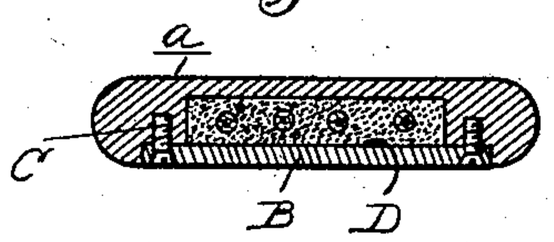
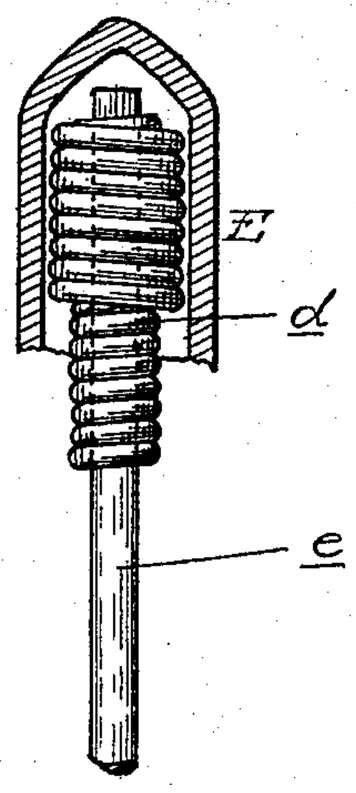


Fig. 3.



Witnesses,
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No. 772,063. Patented October 11, 1904.

UNITED STATES PATENT OFFICE.

GEORGE J. SCHNEIDER, OF DETROIT, MICHIGAN, ASSIGNOR OF NINETEEN-TWENTIETHS TO AMERICAN ELECTRICAL HEATER COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

GLOVE-FORMER.

SPECIFICATION forming part of Letters Patent No. 772,063, dated October 11, 1904.

Application filed November 19, 1903. Serial No. 181,769. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. SCHNEIDER, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Glove-Formers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to glove-formers or devices which are intended for use in pressing and shaping a glove for packing and shipment.

Heretofore glove-formers have been constructed comprising a hollow form connected with a source of steam under pressure. In these prior constructions the chamber within the form extends up into the fingers, so as to permit of heating the latter as well as the body portion; but a serious objection to their use is that any leakage of steam will injure the work, and on account of the small cross-section of the fingers it is difficult to prevent all leakage. Moreover, it is necessary to heat the form considerably above the temperature of steam under atmospheric pressure, so that the required degree of heat can only be obobtained by increasing the pressure to twenty or thirty pounds. Still another difficulty is that the passages in the fingers being small are apt to clog with condensation, so as to prevent the temperature rising to the proper degree.

It is the object of the present invention to avoid these objections by providing the form with an internal generator of dry heat, thereby avoiding the necessity of a fluid circulating medium.

It is a further object to so arrange said heat-generator as to uniformly distribute the heat in all portions of the form.

In the drawings, Figure 1 is a longitudinal section through my improved glove-former. Fig. 2 is an enlarged cross-section through two of the fingers. Fig. 3 is an enlarged longitudinal section therethrough, and Fig. 4 is a cross-section through the body.

A is the form, preferably of cast metal, and having the flat body portion *a* and four projecting finger portions *b*. The latter are preferably of the cross-section shown in Fig. 2, the outer fingers being rounded on their outer edges, while the adjacent faces of the fingers are grooved longitudinally, as at *c*, so as to receive the seam. The body portion *a* is preferably recessed and provided with a detachable cover B, which when secured in place by screws C forms an inner chamber D. Within this chamber is arranged an electric heat-generator E, which is embedded in cement or other suitable filling material, as shown in Fig. 4. This heater is preferably formed of a plurality of coils *d*, and these coils not only extend longitudinally of the body, but also extend into recesses in each of the fingers *b*, thereby communicating uniform heat to all portions of the form. Each of the coils *d* is preferably wound upon a core *e*, and in order to secure the proper resistance the coils are all preferably connected in series, as illustrated in Fig. 1. As shown in this figure, the coils *d* are wound around the core *e*, with one winding extending the entire length of the core and then returning in a second layer for a distance equal to the length of the finger. The wire is then passed to the second core, being wound first around the finger portion and then returning in a second layer and continuing in a single layer to the opposite end, thence to the third core, extending its entire length and returning the length of the finger, &c. When the heater is constructed in this manner, the portions thereof corresponding to the fingers are inserted in recesses *f*, which extend into the fingers *b* and connect with the recesses D in the body portion of the form. The heater may be readily placed in position by first inserting the ends of the coil *d* in the recesses *f* and pushing them into said recesses until they extend the entire length. The remainder of the heater then falls within the recess D, with the terminals *g* and *h* extending outward through insulator-sleeves F at the lower end of the form. The cement filling may then be placed in the

recess D to embed the coils therein, after which the cover B may be secured in position. The form A may be mounted in any suitable manner; but preferably it is provided with a standard G, on which it rests, and extending in a vertical plane with the fingers projecting upward.

In operation whenever the terminals *g* and *h* are connected with a source of electric current heat will be generated within the coil *d*, which will be communicated to the metallic form, raising the latter to the required temperature. Inasmuch as the heat generated is constant and uniform, better results may be obtained than where the heat is secondary and is communicated by a fluid circulating medium, and, furthermore, the heat generated is always dry, which avoids all danger of injury to the work such as frequently results from the use of steam.

What I claim as my invention is—

1. The combination with a glove-former of a generator of dry heat arranged within said former, and inclosed thereby.

2. The combination with an imperforate glove-former of a generator of dry heat contained therein.

3. The combination with a glove-former of an embedded electric heater contained therein.

4. The combination with a glove-former comprising a body portion and projecting fingers of a dry-heat generator arranged within said body portion and having portions extending into said fingers.

5. The combination with a glove-former comprising a body portion and projecting fingers of an electric heater arranged within said body, and having a plurality of projecting coils extending into said fingers.

6. The combination with a glove-former comprising a body portion and projecting fingers of an electric heater comprising a plurality of coils extending longitudinally of said body and respectively through said fingers.

7. The combination with a glove-former having a recessed body and projecting hollow fingers of an electric heater comprising a plurality of coils extending longitudinally within the recess in said body and respectively projecting into said hollow fingers, the portion in said recess being embedded in cement.

8. The combination with a glove-former provided with projecting hollow fingers and a hollow body portion, of an electric heater comprising a plurality of coils in series adapted to extend through said hollow body and respectively into said hollow fingers, said coils being arranged in series and each comprising the core, a winding thereon extending the entire length, and a return-winding extending the length of a finger.

9. The combination with a glove-former having a recessed body, of an electric heater therein embedded in cement.

10. A glove-former comprising a recessed body portion, an electric heater within said recessed portion, and an inclosing section for said recessed portion.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE J. SCHNEIDER.

Witnesses:

JAS. P. BARRY,

H. C. SMITH.