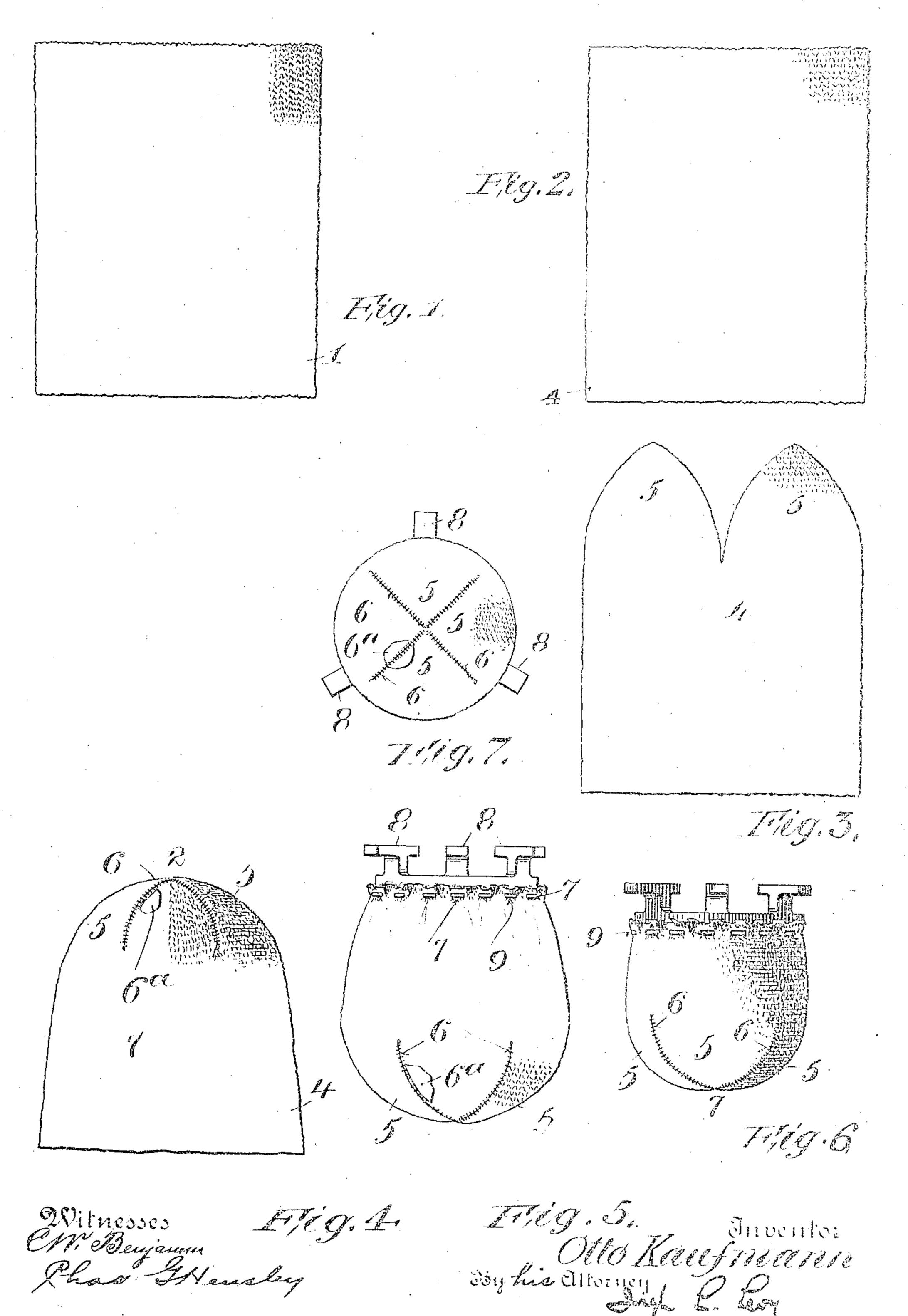
O. KAUFMANN.

INCANDESCENT MANTLE, APPLICATION FILED OCT. 21, 1905.

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THIEF STATES PATENT OFFICE.

YORK, N. Y., ASSIGNOR TO BLOCK LIGHT COMPANY, OF NEW YORK, N. Y.

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To all whom it may concern:

Be it known that I, Otto KAUFMANN, a citizen of the United States, and a resident of the city of New York, county of Queens, 5 and State of New York, have invented a new and useful Incandescent Mantle, of which the following is a specification.

My invention relates to the production of mantles or incandescents for gas lamps, spe-10 cifically to those used on inverted gas lamps, although the same may have other uses; and the object of my invention is to provide an improved mantle of the above sort, which ordinarily is supported at its base in an in-

15 verted position.

Heretofore such mantles have been made by gathering one end of a tube of knitted material by the use of a string encircling one end of the tube, or by passing a string 20 through the loops of the knitting and drawing the loops together. This is objectionable because these methods crease and fold the fabric and make it unnecessarily weak and dense at the point where the stress is great-25 est when the mantle is in use, so that it soon breaks at the said weakened point thereby rendering the life of the mantle short and uncertain, and by reason of the density of the mantle produced in the above ways an 30 unnecessary increase in gas pressure is required to properly incandesce it, the result of which is also to shorten the life of the mantle, to increase the expense of its use, to complicate its use, and render it less efficient. 35 The object of my invention therefore is to

generally improve the manufacture of mantles, and to abolish these folds and creases and strengthen the mantle generally and more particularly at the part formed and 40 creased as above described. These and other objects are accomplished by my invention, one embodiment of which is hereinafter set

forth.

For a more particular description of my 45 invention, reference is to be had to the accompanying drawings forming a part hereof

in which: Figures 1 and 2 show an ordinary mantle tube cut into proper lengths. Figs. 3, 4 and 50 5 show my improved mantle in various stages of manufacture. Figs. 6 and 7 are, respectively, side and end elevations of the completed mantle with a support attached.

Throughout the various views of the drawings, similar reference characters desig- 55 nate similar parts.

Referring to Figs. 1 and 2. 1 designates a

mantle tube cut to the proper length.

As stated above, in my improved mantle the folds and creases heretofore present are 60 abolished and this is accomplished in the structures shown in Figs. 4 to 7 inclusive, in the following manner. The tube 4 of the impregnated webbing shown in Fig. 3 is cut transversely so as to have four curved 65 tongues 5, each identical with the two shown in Fig. 3. These tongues 5 are sewed together by a thread 6 so that the seam turns inwardly to form a rib 6a, whereby the structure is stiffened as shown in Fig. 4. 70 This mantle 7 is then mounted on a suitable base or supporting ring 8 and secured by a tie-thread 9 as shown in Fig. 5. The mantle is then burned and shaped and finally coated with collodion or other suitable protecting 75 covering and then it is in the shape indicated in Figs. 6 and 7. It is then ready to be packed and shipped or used in the customary manner.

In the foregoing has been described one 80 embodiment of my invention, but many others may be made so I do not regard it as limited to the precise disclosure therein made, but as being broad enough to cover all structures that come within the scope of the 85

annexed claims.

Having thus described my invention, what I claim is:

1. An article of manufacture, a mantle or incandescent consisting of a tube of fabric 90 having a cylindrical open end and a rounded terminal comprising a plurality of rounded sections, the adjacent edges of which are seamed together, the seams forming interior

reinforcing ribs. 2. An inverted mantle having a cylindrical open top and a dome-formed smooth-surfaced base consisting of two sections, each of the general form of a quarter of a sphere, and

seamed together at their edges. 3. An incandescent mantle constructed. from a tubular stocking having a cylindrical open end and a smooth dome-shaped closed end formed of curved end sections and united at their edges by means of seams.

4. An incandescent mantle having a cylin-

drical open top and a reinforced domeformed smooth-surfaced base of sections of curved form seamed together at their edges.

5. A mantle or incandescent, comprising a tube of fabric having one end closed the tube being severed on a curved line transversely of its length, said severed edges being secured together by a seam which is located inside of the closed end of the mantle tube, whereby the said closed end is reinforced by a seam extending transversely of the mantle.

6. A mantle for incandescents comprising a tube of fabric having a plurality of seams for closing one end of the tube, which seams extend transversely and are located within

the tube and produce reinforcing ribs extending from the median portion of the closed end of the mantle.

7. A mantle for incandescents consisting 20 of a tube of fabric having a closed and rounded end and a plurality of ribbed seams interiorly located in said closed end, which seams diverge from the median portion of said closed and rounded end longitudinally 25 along the mantle and radiating from a common center.

Signed this 19th day of October, 1905. OTTO KAUFMANN.

Witnesses:
Gustave Thronard,
Eugene A. Gallagher.