

No. 635,891.

Patented Oct. 31, 1899.

L. F. HOLBERG.  
BODY WARMER.

(Application filed Apr. 1, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

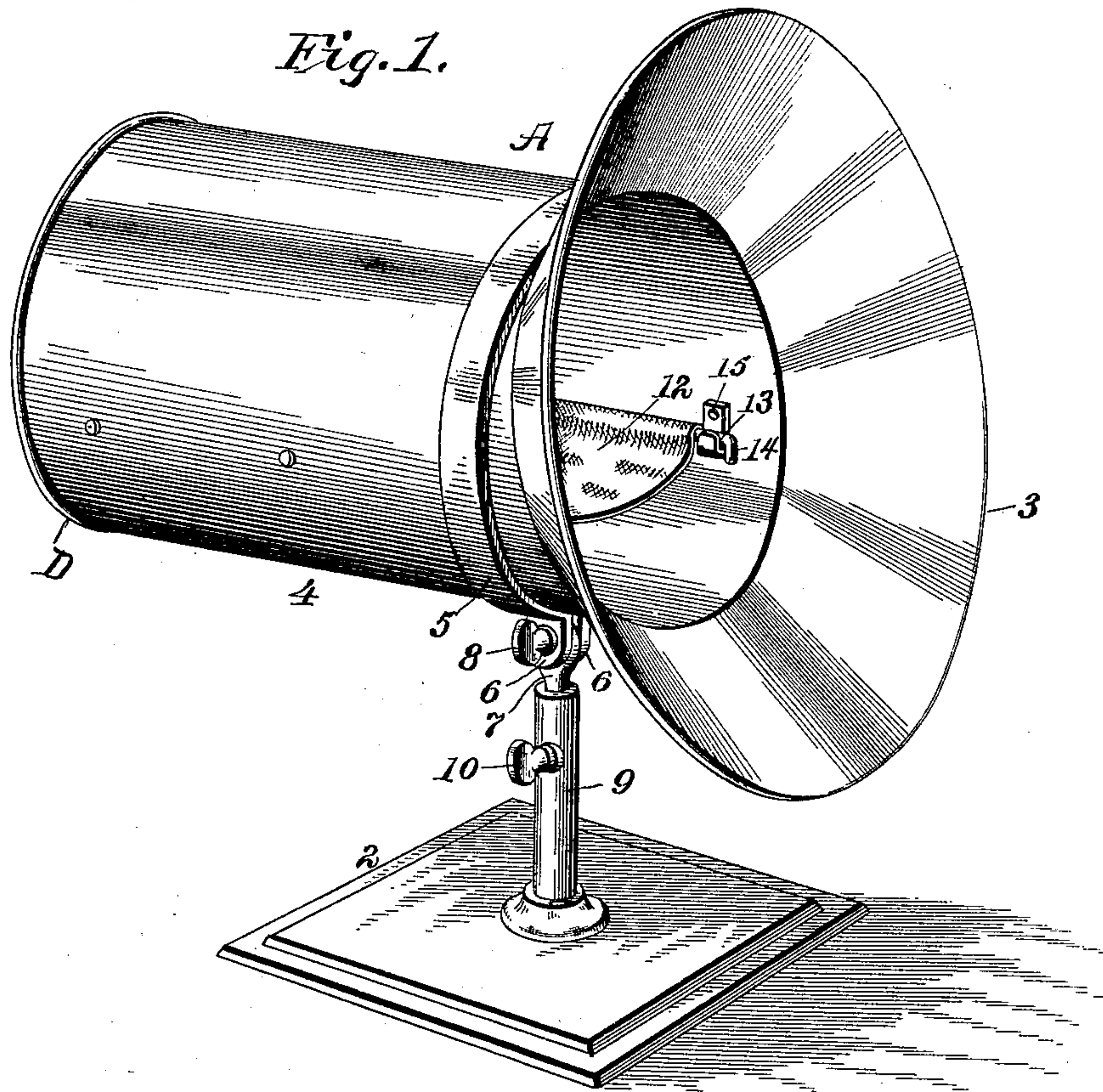
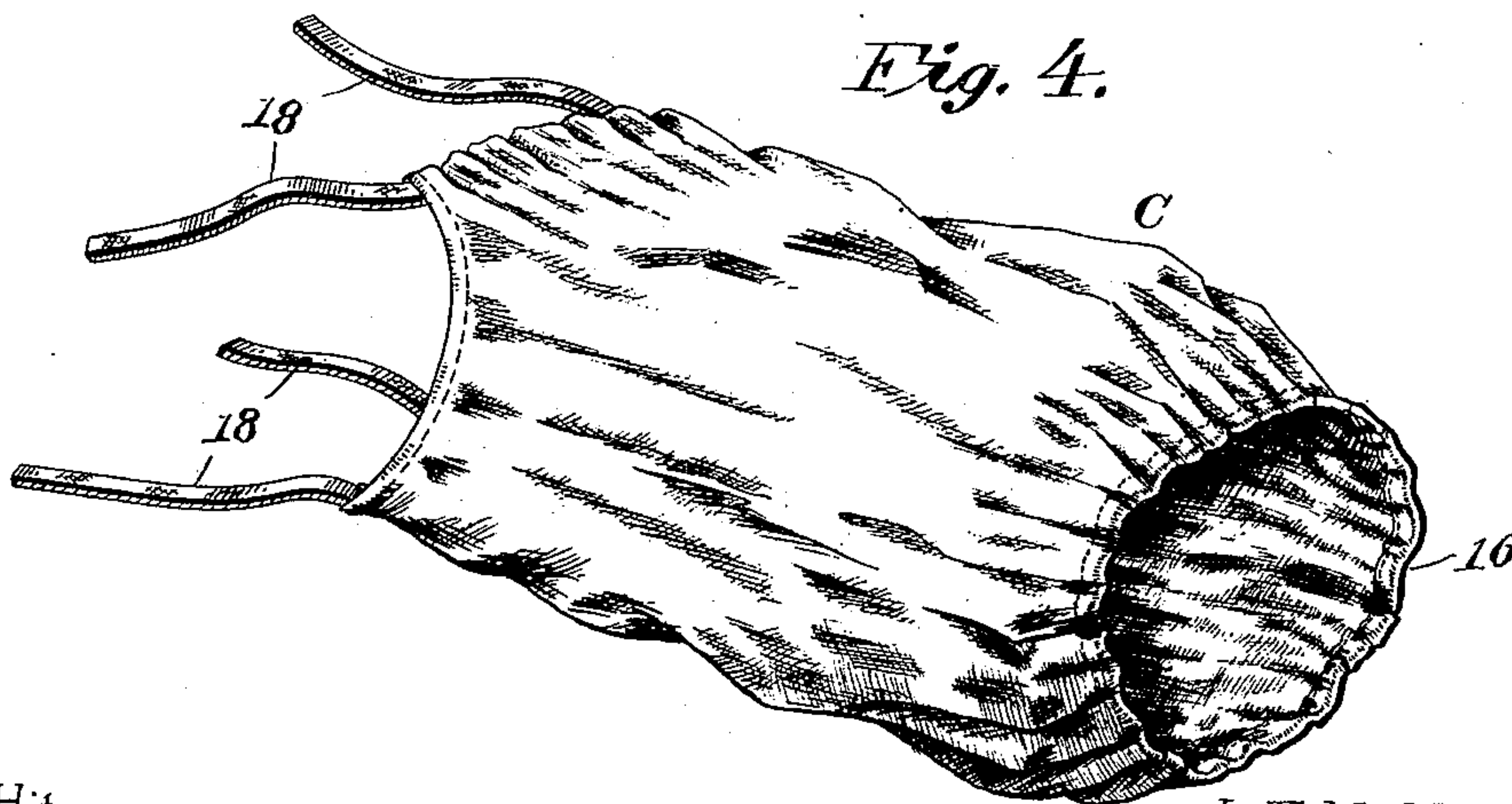


Fig. 4.



Witnesses

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2 Sheets—Sheet 2.

Fig. 2.

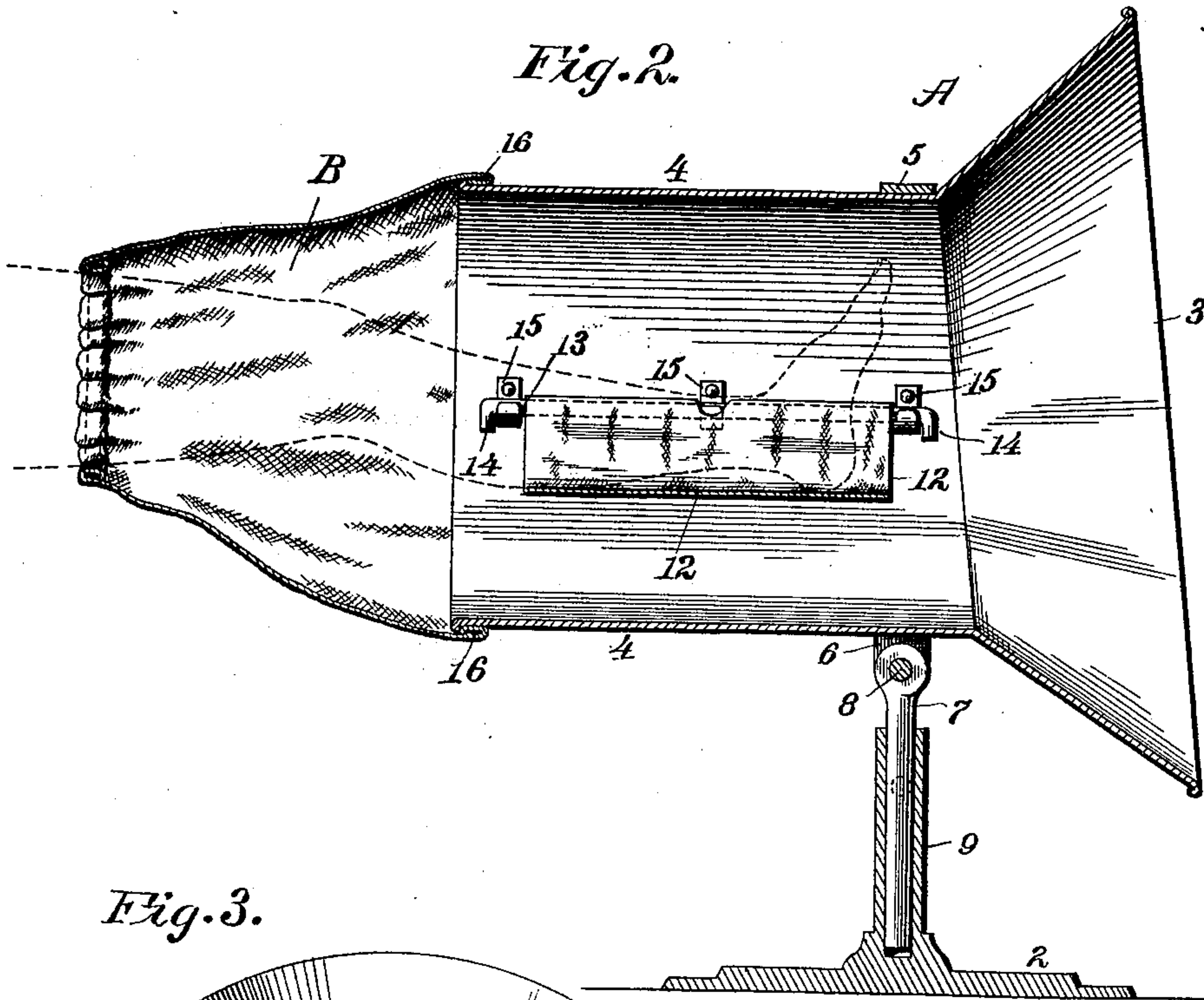


Fig. 3.

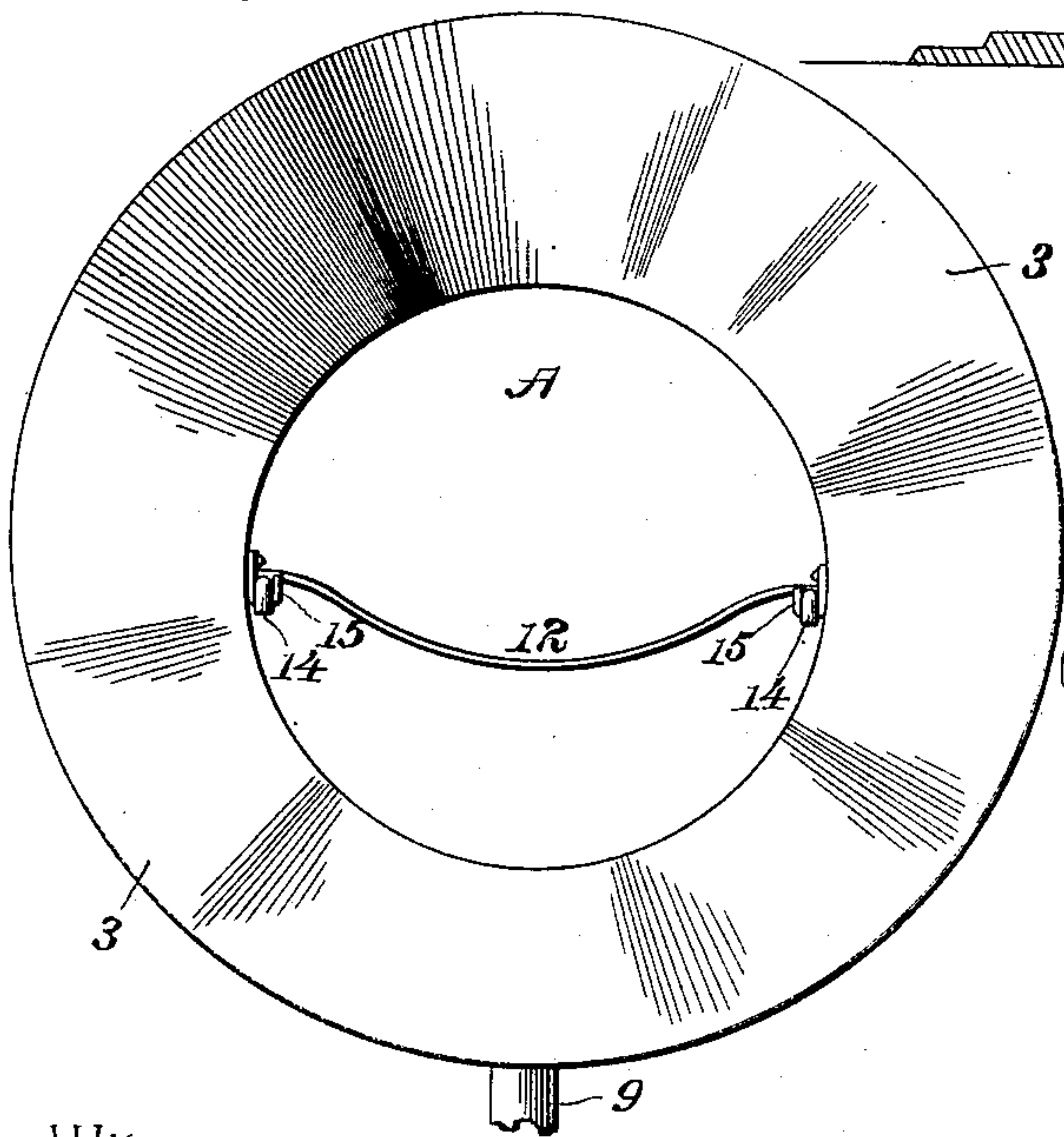
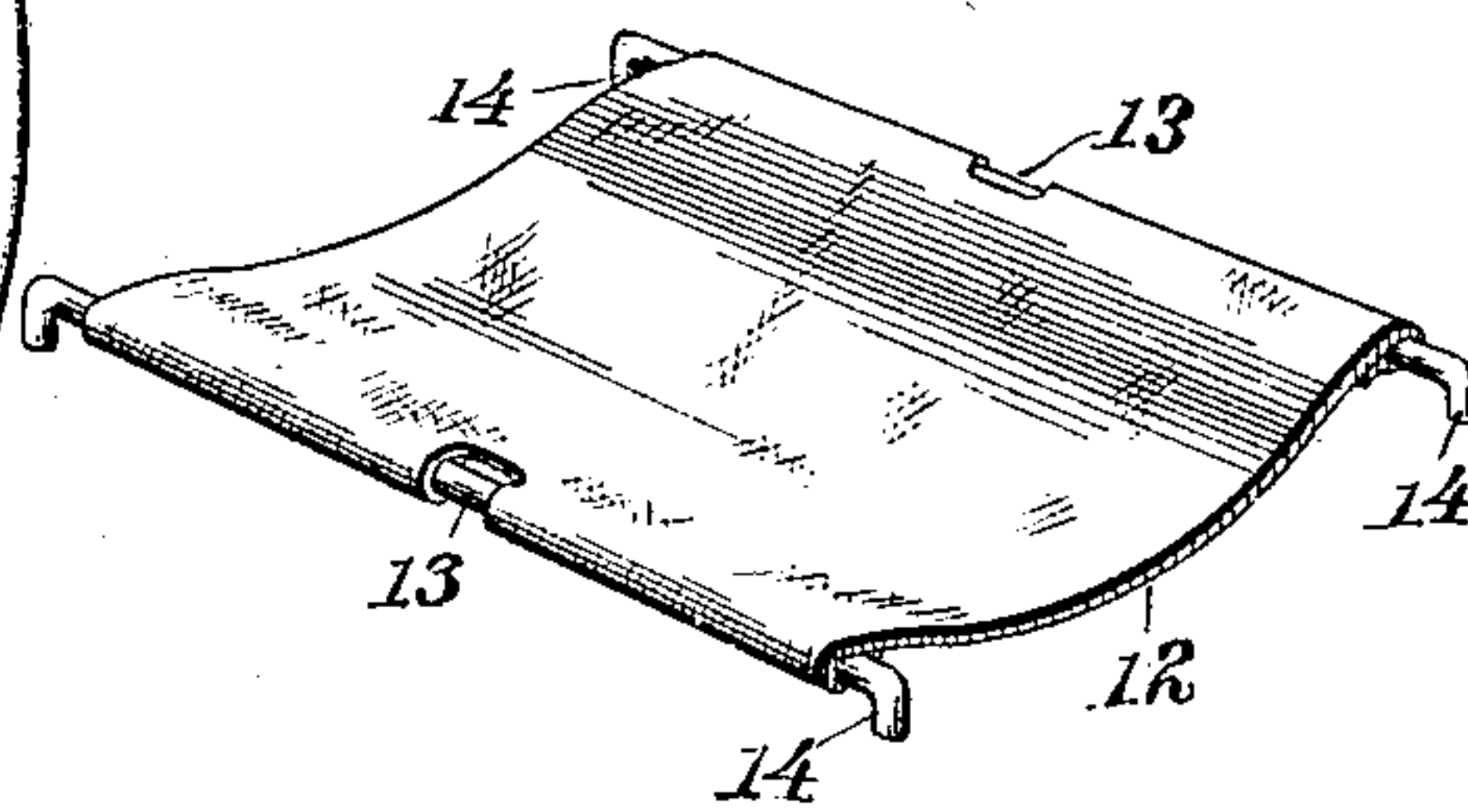


Fig. 5.



Witnesses  
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# UNITED STATES PATENT OFFICE.

LITTLE FERDINAND HOLBERG, OF MACON, MISSISSIPPI.

## BODY-WARMER.

SPECIFICATION forming part of Letters Patent No. 635,891, dated October 31, 1899.

Application filed April 1, 1899. Serial No. 711,350. (No model.)

*To all whom it may concern:*

Be it known that I, LITTLE FERDINAND HOLBERG, a citizen of the United States, residing at Macon, in the county of Noxubee and State of Mississippi, have invented a new and useful Body-Warmer, of which the following is a specification.

This invention relates to body-warmers; and the object of the invention is to provide a simple and inexpensive device of this character involving means for directly applying heat to a body when needed to ease pain in rheumatism and like ailments and which heat can be received from a grate, stove, or other like device and conducted to different parts of the human body.

The body-warmer includes in its construction a base, which may be moved from place to place, and a heat-conductor mounted on the body portion and including an outwardly-flared heat-receiving portion, by which a large amount of heat may be collected and conducted for use. In the present case the heat-conductor is mounted upon the base to be raised and lowered and to be also tilted, whereby its opposite ends can be adjusted to meet different conditions, and it includes a cylindrical portion joined to and forming a continuation of the flared portion before mentioned and which can inclose a rest upon which a leg or arm can be supported for treatment. I also employ in connection with the conductor a series of auxiliary heat-conductors which can be detachably united with the main heat-conductor and also with different parts or members of the body of a patient.

With these ends in view the invention consists in the combination of elements and in the construction and arrangement of parts, which will be hereinafter fully described and claimed.

To enable others to understand the invention, I have illustrated the preferred embodiment thereof in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of a body-warmer constructed in accordance with my invention. Fig. 2 is a longitudinal central sectional view of the same with one of the auxiliary heat-conductors attached thereto. Fig. 3 is a face view of the main heat-con-

ductor. Fig. 4 is a perspective view of the auxiliary textile detachable heat-conductor, and Fig. 5 is a perspective view of the arm and leg rest.

Like characters denote like and corresponding parts in each of the several figures of the drawings.

The heat-conductor, hereinafter described, is supported by a base, as 2, which may consist of a metal plate or block of wood of suitable form and size and which is adapted to rest upon the floor of an apartment in which the device is located.

The heat-conductor is designated by A, and it consists of a flared portion 3 and a cylindrical portion 4, the two parts being united to form a continuous structure and the flare or angular disposition of the part 3 being outward and being adapted to be arranged in proximity to a stove, furnace, or other heat-generating medium, the distance of the device from the heater being varied to suit the user, and the flared portion 3 by reason of its construction is adapted to cover a wide area, and thereby collect a large amount of heat, which passes into the cylindrical portion 4, in which latter the leg or arm of a patient to be treated can be thrust to receive the maximum effect of the heat, or auxiliary heat-conductors, hereinafter described, can be attached to said cylindrical portion 4 for the purpose of conveying heat to portions of the body which cannot be inserted in such cylindrical portion. The cylindrical portion near its junction with the flared portion is embraced by the split or divided ring 5, the meeting ends of which are provided with downwardly-disposed ears 6 to receive the flattened upper end of the spindle 7, and the ears and spindle have registering openings to receive the pivot-bolt 8, which construction permits tilting movement of the heat-conductor A relatively to the spindle, and by tightening on the nut of the pivot-bolt said part A can be maintained firmly in a desired adjusted position. A socket-piece is represented at 9, it being vertically disposed and being fixed to the base, substantially centrally thereof, and its socket being adapted to receive the spindle 7, from which it will be evident that said spindle, and consequently the heat-conductor connected thereto, can be rotated to vary the position of



the mouth or receiving end of said heat-conductor, and the latter when set will be held by means of a set-screw 10, threaded into an opening in the socket-piece 9 and adapted to bind  
5 against the spindle and lock the same against rotation.

The leg or arm of a patient preferably receives the heat by being introduced into the cylindrical portion 4 of the heat-conductor,  
10 and the member inserted is sustained by the rest 12, consisting, preferably, of a strip of flexible and textile material, having rods 13 at its opposite ends, around which the material constituting the rest can be passed and stitched,  
15 and the rods terminate in angular extensions 14, serving to prevent the withdrawal of the same from the lapped-over portions of the rest. The cylindrical portion 4 is provided within the same and at opposite sides of a vertical central line with a series of transversely-aligned  
20 hooks 15 of any suitable number, adapted to receive the rods 13 and by which the rest 12 can be suspended in place.

In connection with the main conductor A,  
25 I provide detachable conductors, as B and C, respectively formed, preferably, of flexible material, such as cloth, and these auxiliary or supplemental conductors are tubular and are adapted to be connected, respectively and detachably, at their opposite ends to the body of  
30 the person under treatment and to the main heat-conductor. The main heat-conductor A is usually made of sheet metal, although this, of course, is not essential, and the end remote  
35 from the flared collector 3 is formed with an outer bead or annular shoulder D for engagement therewith of the conductor B, so as to prevent slipping off of the conductor B from the part 4 when the parts are properly posi-  
40 tioned.

The auxiliary conductor B has the elastic band 16 at its inner end, which is adapted to fit around the cylindrical portion 4 of the main heat-conductor to hold the same in  
45 place, and the band may be secured by turning in and stitching a portion of the said detachable auxiliary conductor. The latter at its discharge end is provided with a similar but shorter band, held in place in like manner  
50 as the other band and which is adapted to be stretched around the member of the part to be treated.

The detachable auxiliary conductor C is formed substantially like the complemental  
55 member, it having an elastic band 16 at its inner end, which is adapted to hold the same on the cylindrical portion 4, and it is provided at its discharge end with a series of straps, as 18, made of flexible material and adapted to  
60 be tied around the body, so that heat can be applied to different parts thereof, such as the shoulder, back, chest, &c.

Changes in the form, proportion, size, and

the minor details of construction within the scope of the appended claims may be resorted  
65 to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what I claim is—

1. A device for gathering and concentrating  
70 radiated caloric from a heater upon any limb of the human body, consisting of a hollow body open at its ends and closed at its sides, means for supporting the limb about centrally within the body, a flaring heat-collector  
75 applied to one end of the body for gathering and concentrating the external heat-rays within the said body, and a flexible device applied to the opposite end of the hollow body  
80 and adapted to be closely fitted about the limb to be treated to confine the heat directed into the said body, substantially as specified.

2. A device for gathering and concentrating  
85 radiated caloric from a heater upon any limb of the human body, consisting of a hollow body open at its ends and closed at its sides, a flaring heat-collector at one end of the hollow body, a flexible device at the opposite end  
90 of said body adapted to be closely fitted about the limb to be treated to confine the external heat directed therein, suspending-hooks at the sides of the hollow body in transverse alignment, a flexible support having opposite  
95 notches in its longitudinal edges, metal rods fitted to the longitudinal edges of the flexible support and having their ends extended and bent to engage with the edges of the terminal  
100 suspending-hooks, said rods closing the notches in the edges of the flexible support and detachably engaged with the said suspending-hooks, substantially as described.

3. A device for gathering and concentrating  
105 radiated caloric from a heater upon any limb of the human body, consisting of a hollow body open at its ends and closed at its sides, external means for positively supporting the device at any required elevation, and horizontal and vertical adjustment, a support  
110 within the hollow body detachably connected therewith and adapted to receive the limb to be treated and hold it about central within the device, a flaring heat-collector applied to  
115 one end of the body for gathering and concentrating the external heat-rays within the said body, and a flexible device applied to the opposite end of said hollow body and adapted to be closely fitted about the limb to be treated to confine the heat directed into the said body, substantially as set forth.

In testimony that I claim the foregoing as  
120 my own I have hereto affixed my signature in the presence of two witnesses.

LITTLE FERDINAND HOLBERG.

Witnesses:

T. T. PATTY,  
J. L. DORROL.