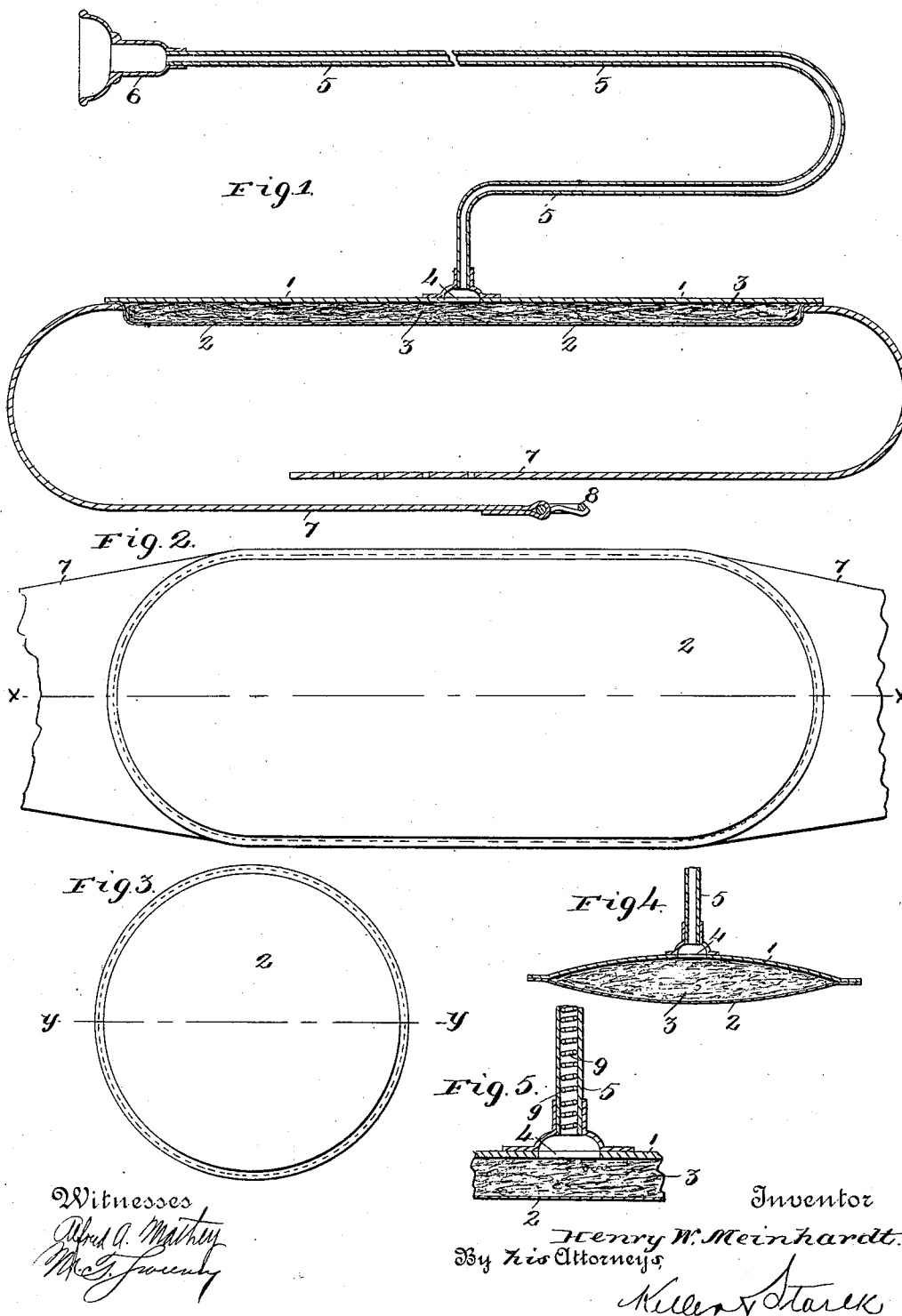


(No Model.)

H. W. MEINHARDT.
BANDAGE.

No. 596,171.

Patented Dec. 28, 1897.



UNITED STATES PATENT OFFICE.

HENRY W. MEINHARDT, OF ST. LOUIS, MISSOURI.

BANDAGE.

SPECIFICATION forming part of Letters Patent No. 596,171, dated December 28, 1897.

Application filed April 19, 1897. Serial No. 632,834. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. MEINHARDT, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Pads to be Locally Applied to the Body, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in pads to be applied locally to the body of a person suffering from colds, rheumatism, and the like; and it consists in the novel construction of pad more fully set forth in the specification and pointed out in the claim.

In the drawings, Figure 1 is a middle longitudinal vertical section on line *xx* of Fig. 2. Fig. 2 is a plan of the under side of the pad. Fig. 3 is a plan of the under side of a modified form. Fig. 4 is a section on line *yy* of Fig. 3; and Fig. 5 is a similar section of a pad, showing a modified form of air-tube.

The object of my invention is to construct a pad which may be applied locally to the body of a person suffering from cold, rheumatism, kidney complaint, earache, &c., which by the introduction of warm air from the lungs into the interior of the pad will have the effect of giving immediate relief to the affected part of the body over which the pad is placed.

In detail the invention may be described as follows:

Referring to the drawings, 1 represents the outer layer or cover of the pad, which cover may be of leather, chamois, and the like. The inner face of this has secured thereto by stitches or cement disposed along the edge thereof an inner or under layer 2 of silk, linen, or other fabric. Between these layers 1 and 2 is interposed a filling 3, of absorbent cotton, wool, or the like, capable of temporarily retaining warm air, which may be imparted to it from the lungs or other source. The middle portion of the layer 1 is provided with an opening 4, over which is secured one end of a flexible rubber tube 5, the free end of the tube being provided with a mouthpiece 6.

In Figs. 1 and 2 I have shown an oblong pad

adapted to be secured about the waist of the person by means of straps 7 7, provided with a suitable buckle 8. Should a person have a cold in the back or chest or kidneys or suffer otherwise locally, he simply places the pad over the affected part with the layer 2 against the body, then breathes or exhales a sufficient quantity of warm air into the tube 5, the warm air being retained temporarily between the interstices of the filling 3, giving warmth to the body, and thus temporarily and sometimes permanently relieving the affected part.

In Figs. 3 and 4 I have shown a circular pad better designed to be placed over the ear in case of earache, and, as already described, by breathing into the tube 5 warmth is imparted to the ear and relief follows.

Where occasion arises to strap the pad about the waist and the individual has occasion to lie down, in which event there would be danger of compressing the walls of the tube 5 and thus prevent the flow of air through the tube into the pad, I provide the tube with an interior stiffening coil or spring 9, which will be of sufficient stiffness to resist the weight of the body.

It is apparent that minor changes might be made in the device without departing from the spirit of my invention.

It will be observed that the present pad serves as an equalizer of the temperature for the body, the affected part having always imparted thereto the temperature of the air of the lungs, which is temporarily retained by the absorbent wool or cotton, a result not to be attained by any other device, so far as I am aware.

Having described my invention, what I claim is—

A pad to be locally applied to the body, comprising an outer layer of leather or similar material, an under layer of silk or the like secured to the outer layer along the edges thereof by stitching or otherwise, a filling of absorbent cotton or wool in a finely-divided state for retaining the warm air forced into the pad from the lungs, a flexible tube leading from a central opening of the outer layer and of

sufficient length to reach to the mouth of the
wearer, a mouthpiece at the free end of said
tube, means forming a part of said tube for
stiffening the walls of the tube at a point ad-
5 jacent to its juncture with the pad, against
the collapse of said walls when under extrane-
ous pressure, and suitable straps secured ad-
jacent to the edges of the path for securing

the latter about the body of the wearer, sub-
stantially as set forth. 10

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

HENRY W. MEINHARDT.

Witnesses:

EMIL STAREK,
ALFRED A. MATHEY.