(No Model.)

F. W. & W. KITTO.

THIMBLE.

No. 539,275. Patented May 14, 1895.

FIG. 1

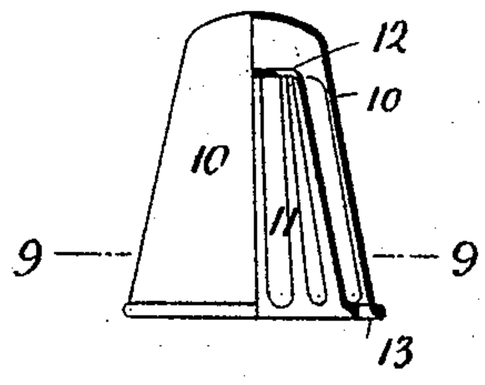


FIG. 2

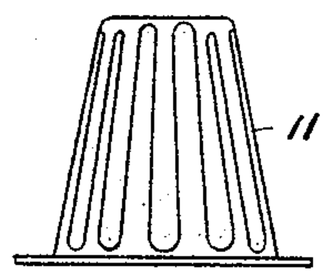


FIG. 3

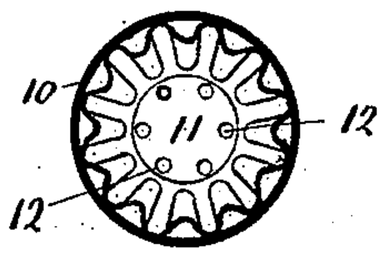


FIG. 4

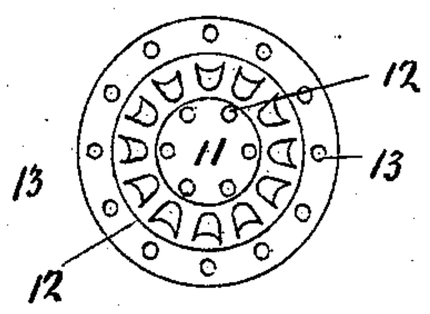


FIG. 5.

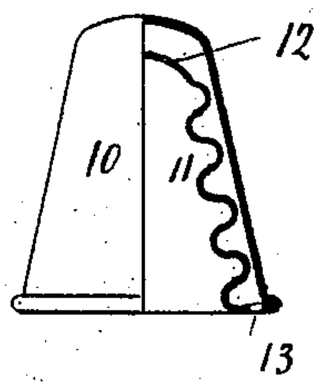
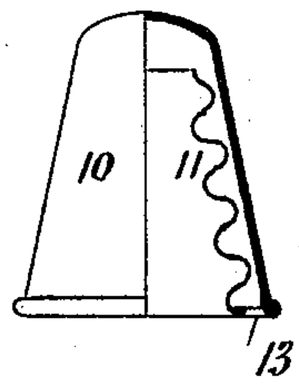


FIG 6.



Witnesses.

Robt Corbett.

Dennis Sumby.

Inventors.

Frederick W. Kitto.

Walter Kitto.

By James L. Norris.

Atty.

UNITED STATES PATENT OFFICE.

FREDERICK WALLACE KITTO AND WALTER KITTO, OF LONDON, ENGLAND; SAID WALTER KITTO, ASSIGNOR TO WILLIAM HAWORTH, OF KERRY ROAD, NEW CROSS, ENGLAND.

THIMBLE.

SPECIFICATION forming part of Letters Patent No. 539,275, dated May 14, 1895.

Application filed December 20, 1894. Serial No. 532,477. (No model.) Patented in England January 15, 1894, No. 856.

To all whom it may concern:

Be it known that we, FREDERICK WALLACE KITTO and WALTER KITTO, engineers, subjects of the Queen of Great Britain, residing at 56 Claybrooke Road, Fulham Palace Road, Fulham, London, in the county of Middlesex, England, have invented a new and useful Ventilated Thimble, (for which we have obtained a patent in Great Britain, No. 856, bearing date January 15, 1894,) of which the following is a specification.

This invention has for its object to provide a new and improved sewing-thimble of such construction that air may circulate between the wall of the thimble and the finger on which the thimble is arranged.

The invention consists essentially in a thimble having within it a liner arranged at a distance from the internal surface of the thimble to create a surrounding air space, and provided with an air-inlet perforation at its inner end, and a lateral flange at its outer end, secured to the base of the thimble and having air circulating perforations.

The invention also consists in certain other features of construction and combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a sectional side elevation of a sewing-thimble constructed in accordance with our invention. Fig. 2 is a detail side elevation of the thimble-liner. Fig. 3 is a sectional view taken on the line 9 9, Fig. 1. Fig. 4 is a bottom plan view of the thimble. Fig. 5 is a sectional side elevation showing a modification of the invention, and Fig. 6 is a similar view showing another modification.

In order to enable those skilled in the art to make and use our invention, we will now describe the same in detail, referring first to Figs. 1 to 4 inclusive, wherein the numeral 10 indicates the sewing-thimble, which may be of any desired form, or shape, adapted to receive a liner 11 of such dimensions that when arranged within the thimble a surrounding air-space is created between the thimble and the liner.

In Figs. 1, 2, 3, and 4 the liner is formed with longitudinal corrugations, and at its inner end is constructed with air-inlet perforations 12. The outer end of the liner is formed with a laterally projecting flange having air-circulating perforations 13, and designed to be secured to the base of the thimble, so that air can pass into the perforations, through the chamber between the thimble and the liner, and through the perforations 12 into contact with the finger on which the thimble is arranged.

The thimble illustrated in Fig. 5 is the same in all respects as the thimble described with reference to Figs. 1, 2, 3, and 4, except that the corrugations in the liner extend around the same, or horizontally instead of longitudinally or vertically thereof.

The thimble illustrated in Fig. 6 is the same as that shown in Fig. 5, except that the entire inner end of the liner is omitted to produce the air-inlet opening, and enable the air to have access to the finger on which the thimble is mounted.

The laterally-projecting flange at the outer end of the liner may be secured to the base of the thimble by riveting or soldering, or by spinning the edge of the flange into engagement with the edge of the thimble base.

Having thus described our invention, what we claim is—

1. A thimble having within it a liner arranged at a distance from the internal surface of the thimble to provide a surrounding air space and provided with an air inlet perforation at its inner end, and a lateral flange at its outer end secured to the base of the thimble and having air circulating perforations, substantially as described.

2. A thimble having within it a corrugated

liner arranged at a distance from the internal surface of the thimble to provide a surrounding air space, and provided with air inlet perforations at its inner end, and a lateral flange at its outer end secured to the base of the thimble and provided with air circulating perforations, substantially as described.

3. A thimble having within it a liner 11, constructed with a plurality of corrugations, and provided at its outer end with a perforated lateral flange secured to the edge of the thimble, substantially as described.

Dated this 5th day of December, 1894.

FREDERICK WALLACE KITTO.
WALTER KITTO.

Witnesses:
GEORGE C. DOWNING,
8 *Quality Court, London, W. C.*
T. F. BARNES,
17 *Gracechurch Street, London, E. C.*