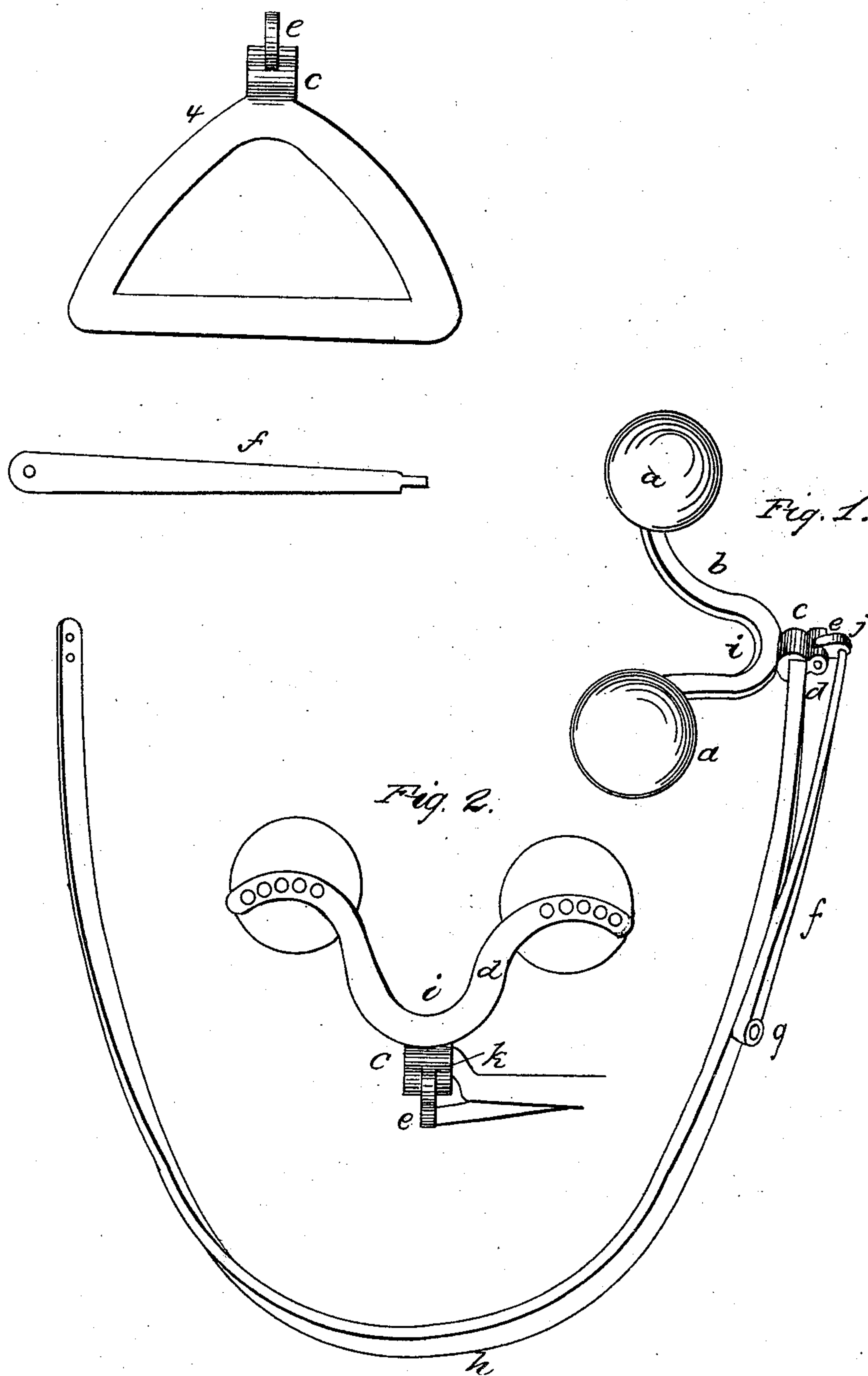


L. B. WHITE.
TRUSS.

No. 10,437.

Patented Jan. 17, 1854.



UNITED STATES PATENT OFFICE.

LEWIS B. WHITE, OF MOSCOW, NEW YORK.

TRUSS.

Specification of Letters Patent No. 10,437, dated January 17, 1854.

To all whom it may concern:

Be it known that I, LEWIS B. WHITE, of Moscow, in the county of Livingston and State of New York, have invented a new and useful Improvement on a Truss Used in Cases of Hernia to Keep Up the Reduced Parts and Hinder Further Protrusion, of which the following is a full and exact description.

10 A self-adjusting truss for either single or double rupture.

Description:

First: An iron or steel bow, as shown at *h* in the accompanying drawing, to pass partly around the body of the patient, being one-half an inch in width from the farther extremity *l* to that part in which the spring is fastened, and in thickness three-sixteenths of an inch at the part in which the spring is fastened, lessening gradually to the extremity *l*, which is less than one-eighth in thickness. As the bow nears the brace it becomes one-fourth of an inch square. Proceeding from this is an offset of about three-eighths of an inch, as shown at *d* Figure 2, causing a purchase on the spring. Proceeding from this offset the bow becomes parallel with that part of the bow as shown at *h* in the accompanying drawing, and is round in order to receive the brace.

Second: The brace as shown at *i*, includes the arms *b, b*, the pads *a, a*, the knuckle *k*, and the stirrup *e*. The arms *b, b*, are made of iron, steel, or brass, are formed nearly in the shape of an inverted U. The average width of the arms is three-eighths of an inch and a little over one-sixteenth in thickness, and are for the purpose of receiving the pads. The distance between the extremities of the arms four inches, the distance from the arms at the junction of the arms and knuckle, perpendicular to a straight line drawn between the extremities of the arms, from one inch and three-fourths to two inches. The arms are pierced with four or five holes each, either one of which may be used in attaching the pads to the arms, by which means the pads may be shifted at pleasure. The pads *a a* are made of wood,

horn or some other proper material; the size and shape proportioned to size of the rupture. The knuckle *k*, Fig. 2, is made of the same material as the arms, is one-half an inch in width and one-half in length. The lower part of the knuckle or that part which is fastened to the arms, is called a socket, as shown at *c*, Fig. 2, is one-eighth of an inch in diameter, and is fastened to the bow by being countersunk and riveted or by a screw. The upper part of the knuckle is used for the purpose of making a joint for the stirrup, and is one-eighth of an inch in diameter. The stirrup *e* is half an inch in length and one-eighth in thickness, one end of which is let into the knuckle by means of a mortise and pin or pivot, which fastens the same. At the other end of the stirrup is a hole *j*, for the purpose of receiving the pivot end of the spring.

Third: The spring *f*, is made of steel, one end of which is fastened to the bow by means of a screw at *g*; the other end passes through the stirrup at *j*. The spring is in length from four and a half to five inches. Its width at the end which is fastened to the bow, half an inch, tapering from this end to the stirrup, which as it reaches the stirrup is one-quarter of an inch in width, and that part which pierces the stirrup being round is one-eighth of an inch in diameter, and is slightly enlarged after passing through the stirrup, to prevent the stirrup from slipping off from the spring.

The size of the truss above described is commonly used but the size is varied according to size of the patient.

What I claim as my invention, and desire to secure by Letters Patent is viz:

The knuckle *k*, the stirrup *e*, the spring *f*, the offset of the bow as shown at *d*, Fig. 2, substantially as set forth.

In witness whereof, I have hereunto subscribed my name, this tenth day of August, eighteen hundred and fifty-three.

LEWIS B. WHITE. [L. S.]

In presence of—

F. G. WUKER,

W. H. SELLEW.