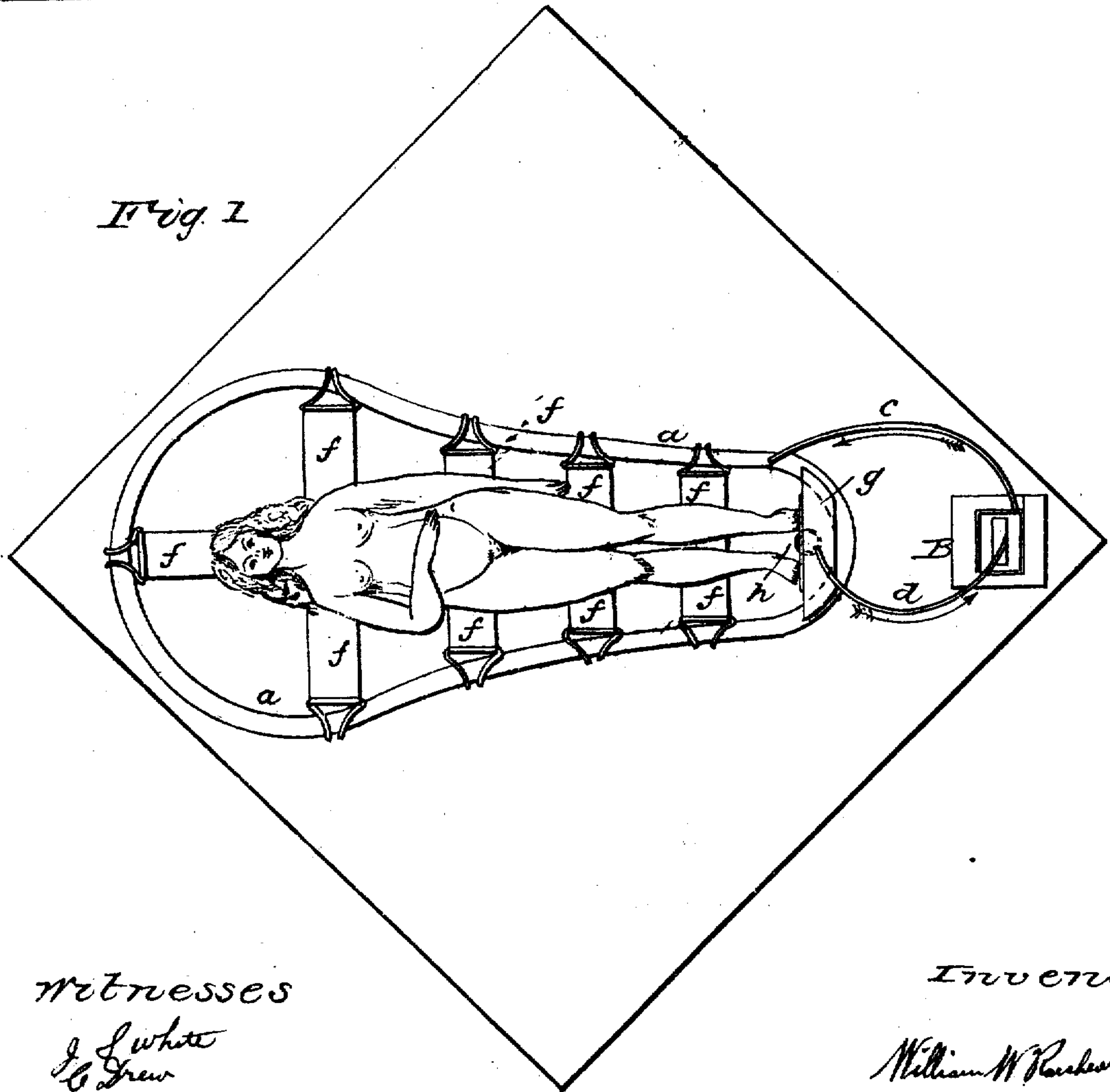
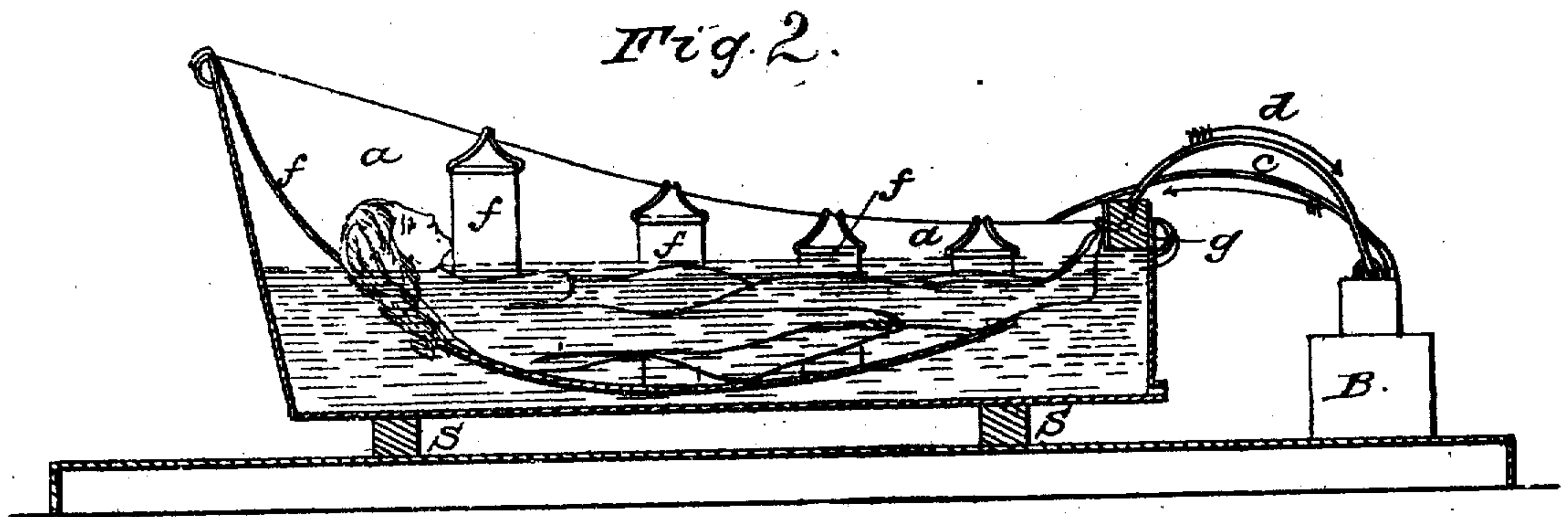


W. W. KARSHNER.

Electrical Bath.

No. 22,733.

Patented Jan. 25, 1859.



Witnesses

J. L. White
C. Grew

Inventor

William W. Karshner

UNITED STATES PATENT OFFICE.

WM. W. KARSHNER, OF CINCINNATI, OHIO.

IMPROVEMENT IN ELECTRO-BATHING APPARATUS.

Specification forming part of Letters Patent No. 22,733, dated January 25, 1859.

To all whom it may concern:

Be it known that I, WILLIAM W. KARSHNER, of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Electro-Therapeutic Bathing Apparatus; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, and made to form a part of this specification, like figures and letters referring to like parts.

To enable others skilled in the art to make and use my invention, I will now proceed to describe the same, both as to construction and operation, in doing which I shall refer direct to the accompanying drawings, of which—

Figure 1 is a top view of the bathing apparatus, and Fig. 2 is a longitudinal sectional view of the same, exhibiting the position of a patient while taking a bath.

a represents the bath-tub; *B*, the electro-magnetic battery; *C*, the positive pole of the battery connected with the bathing-tub; *d*, the negative pole connecting with the patient's feet, insulated from the tub; *g*, a non-conducting substance, insulating; *h*, the conducting foot-plate from the bathing-tub. This plate is used only in the second or tonic bath, in which case it is connected with the negative pole *d* of the battery.

ffff are supporting-bands attached to the sides of the bath-tub, and upon which the patient swings in the act of bathing. These bands must be made of some non-conducting material, or they must be insulated at the edge of the vessel.

The bath-tub is usually made of metal, but must always be insulated from the floor by resting on non-conducting blocks *SS*, or glass in their stead.

I do not wish to be understood as broadly claiming the insulating of a patient for the purpose of electro-medical treatment; but

What I do claim is—

1. The suspending non-conducting bands *ffff*, the conducting foot-plate *h*, insulated from the bath-tub by the non-conducting substance *g*, all substantially as set forth.

2. The combined use of the above-described non-conducting bands *ffff*, the conducting foot-piece *h*, and the non-conducting substance *g*, or their equivalents, for the purpose of administering an electric bath for therapeutic purposes, as before described.

Signed by the said WILLIAM W. KARSHNER on this 16th day of December, A. D. 1858.

WILLIAM W. KARSHNER.

In presence of—

J. S. WHITE,

A. M. DAVISON.