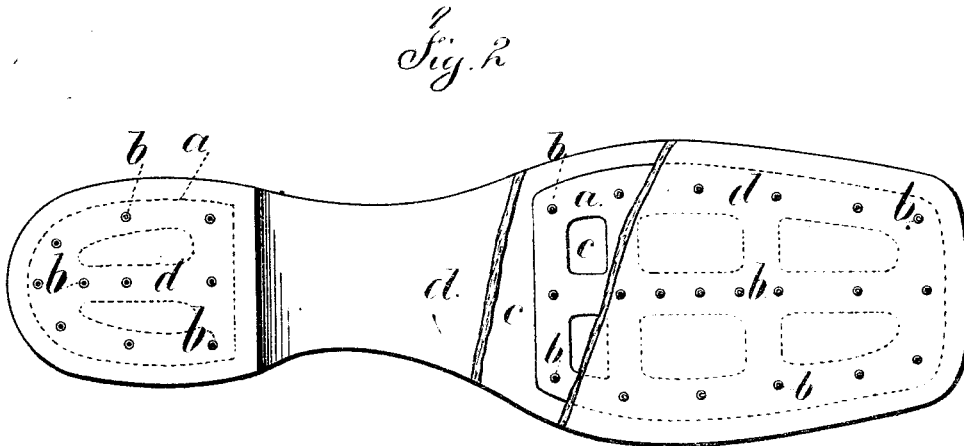
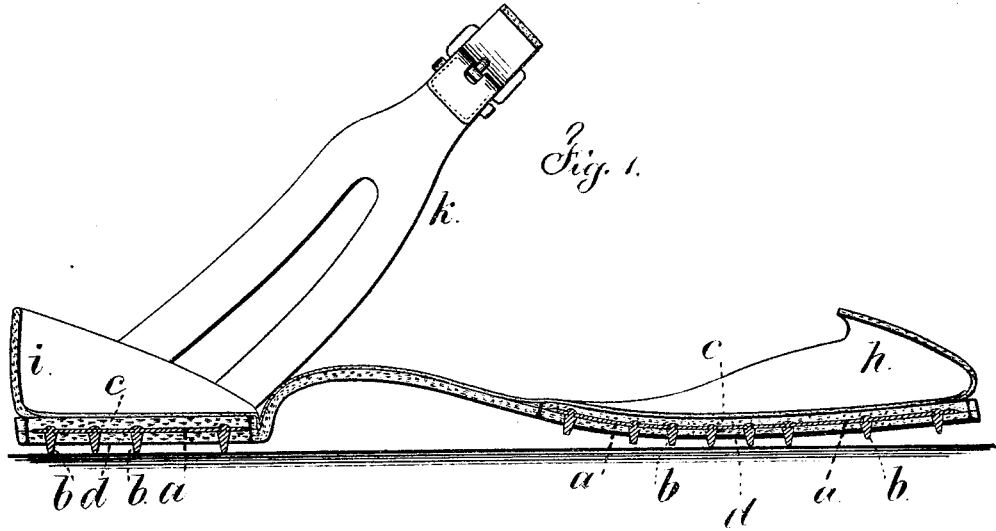


H. LOEWENTHAL.  
ANTI-SLIPPING SANDALS.

No. 183,949.

Patented Oct. 31, 1876.



Witnesses

Chas. H. Smith  
Harold Perrell

Inventor

H. Loewenthal.  
per Lemuel W. Perrell  
att'y

# UNITED STATES PATENT OFFICE.

HERMAN LOEWENTHAL, OF NEW YORK, N. Y.

## IMPROVEMENT IN ANTI-SLIPPING SANDALS.

Specification forming part of Letters Patent No. 183,949, dated October 31, 1876; application filed September 27, 1876.

*To all whom it may concern:*

Be it known that I, HERMAN LOEWENTHAL, of the city and State of New York, have invented an Improvement in Anti-Slipping Sandals, of which the following is a specification:

Ice-creepers have been made with points projecting from the sole or heel, and in some instances these have been upon a plate that is removable from the boot or shoe.

My present invention consists in a removable sandal made with a double sole of leather, an intermediate plate, and points or spurs projecting from the plate through the lower layers of leather.

This ice-creeper is superior to others heretofore employed, because the plate and spurs are retained between two thicknesses of leather, and the spurs can be small and project but little from the leather, as the leather sustains them, and said leather will wear away from time to time, and allow the spikes to continue to project sufficiently to avoid slipping.

In the drawing, Figure 1 is a vertical section of the creeper; and Fig. 2 is an inverted plan, partially in section.

The metal plate *a* has the spikes or spurs *b* projecting from one surface, and the plate *a* is of a size and shape to fit either the sole or the heel, or both, and the plate is made with openings between the spikes, so as to lessen the

weight. The inner sole *c* and outer sole *d* receive between them the plate or plates *a*, with the spurs *b* projecting through the outer sole *d*, and the outer and inner soles are united by sewing around the edges. The toe-cap *h*, heel-counter *i*, and instep-strap *k* serve to hold the sandal to its place upon the boot or shoe, and allow for the connection or disconnection of the same with rapidity.

This ice-creeper can easily be placed upon the feet or removed; it is a reliable preventive to slipping; it aids in keeping the feet dry, and the spurs remain useful much longer than those before employed, because the leather sustains the small body of the spur, and wears away, so that the spurs continue to be useful for a long period of time.

I claim as my invention—

A sandal having the intermediate metal heel or sole plates, one or both, provided with the projecting spurs, all arranged substantially as shown and described, and for the purpose described.

Signed by me this 19th day of September, A. D. 1876.

HERMAN LOEWENTHAL.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.