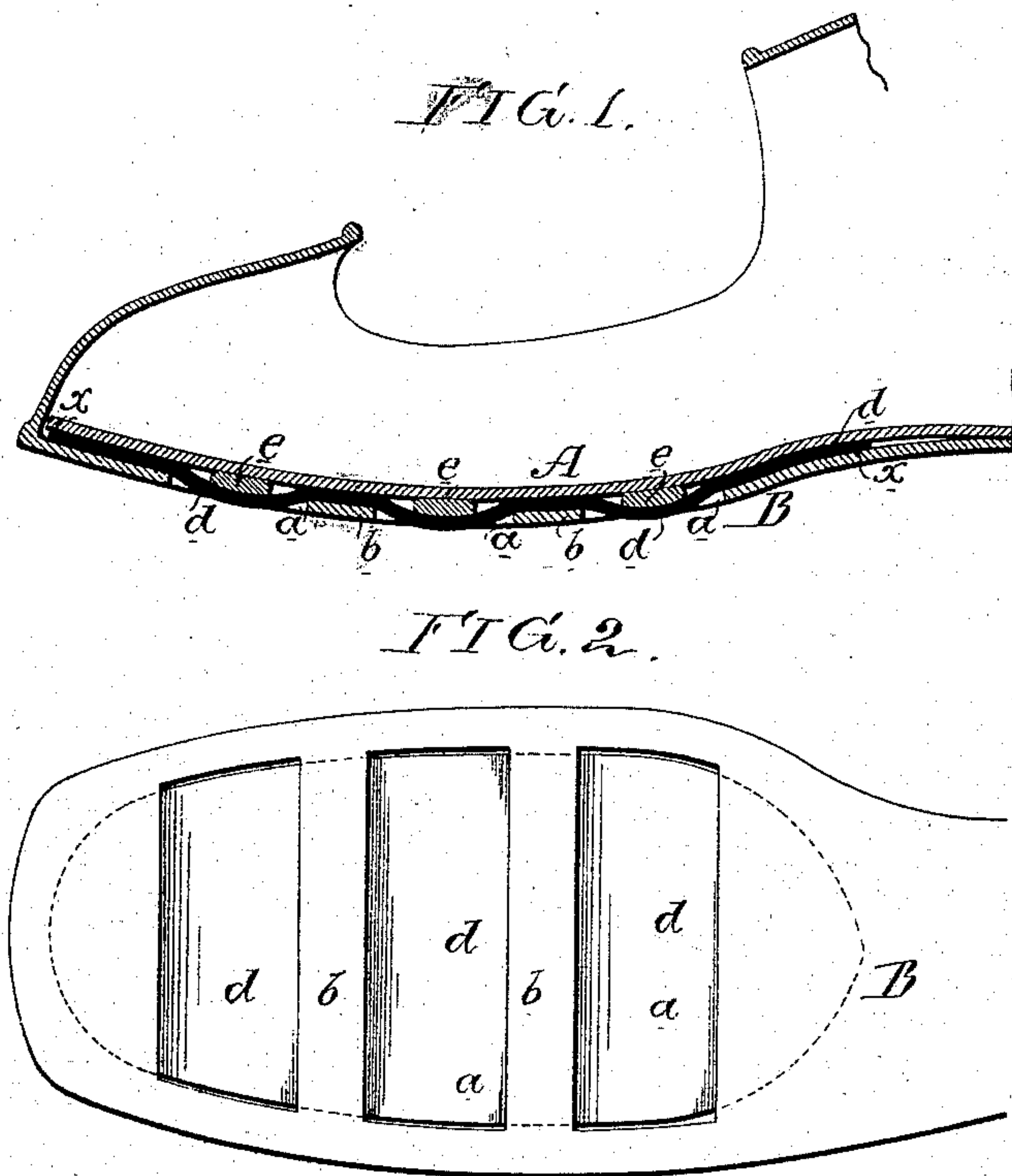


**D. P. DIETERICH.**  
**Gum Shoes.**

No. 156,841.

Patented Nov. 17, 1874.



Witnesses,

Hubert Howson  
 Harry Smith

D. P. Dieterich

by his Atty.

Howson and Son.

# UNITED STATES PATENT OFFICE.

DANIEL P. DIETERICH, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN GUM SHOES.

Specification forming part of Letters Patent No. **156,841**, dated November 17, 1874; application filed September 11, 1874.

*To all whom it may concern:*

Be it known that I, DANIEL P. DIETERICH, of Philadelphia, Pennsylvania, have invented an Improvement in Gum Shoes, of which the following is a specification:

The object of my invention is to render a gum boot or shoe serviceable for preventing slipping on the surface of ice or snow, whether they are dry, as in the coldest weather, or wet, when partially thawed; and this object I attain by combining with the double sole of the gum shoe a strip or strips of woolen cloth or thick felt, in the manner shown in the inverted plan view, Figure 2 of the accompanying drawing, and in Fig. 1, which represents in section sufficient of a gum shoe to illustrate my invention.

A is the inner sole of the shoe, and B the outer sole, and in the latter are cut openings *a a*, leaving cross-bars *b b*. A strip, *d*, of coarse woolen cloth or felt, is introduced between the two soles, and secured to the latter at the ends *x x*, the strip or strips of fabric projecting through the openings in the outer sole, so that there shall be both a rubber and woolen surface in contact with the snow and ice.

In order that the proper projection of the cloth to the desired extent through the opening may be secured, packing *e* may be introduced between the inner sole and the said cloth at the points illustrated in the drawing.

It is well known that the roughened or corrugated surfaces of the metal plates sometimes used in sabots or overshoes soon become smooth, and that while a rubber surface will prevent the slipping of a gum shoe on ice or snow which is comparatively dry, it will not adhere to the surface of ice which has become wet by thawing; hence the advantage of combining with the sole in the manner described a woolen fabric, which, as is well known, will not readily slip on wet snow or ice.

It will be observed that the inner sole is not disturbed by the introduction of the cloth, which consequently does not detract from the water-proof character of the shoe.

I do not claim the combination of a strip of cloth or felt with a slotted sole, as this is seen in the sandal or sabot for which Letters Patent No. 83,229 were granted to M. Warne, October 20, 1868; but

I claim as my invention—

A gum boot or shoe in which are combined a slotted outer sole, an inner sole, and a strip of woolen or felted fabric passing through the slots of the outer sole, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

D. P. DIETERICH.

Witnesses:

HUBERT HOWSON,  
HARRY SMITH.