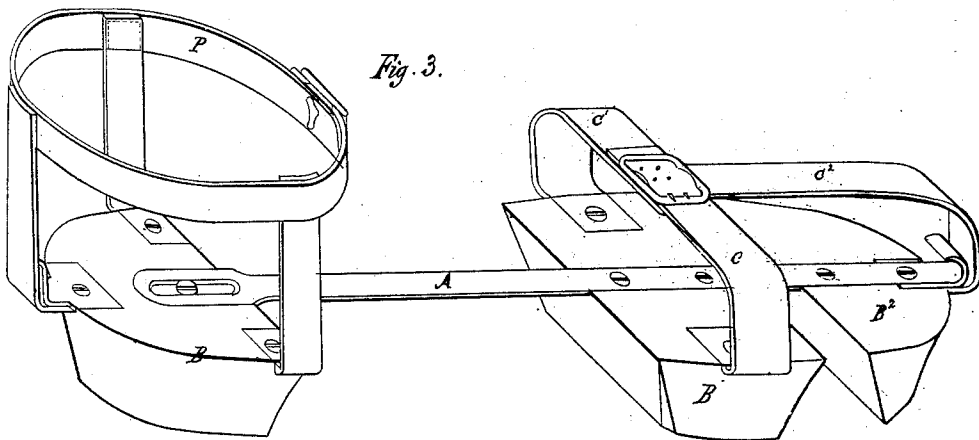
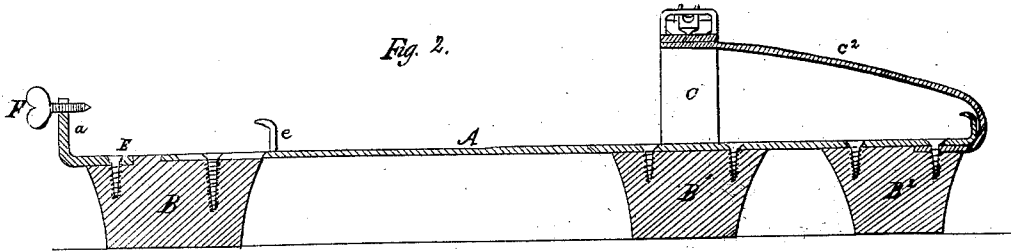
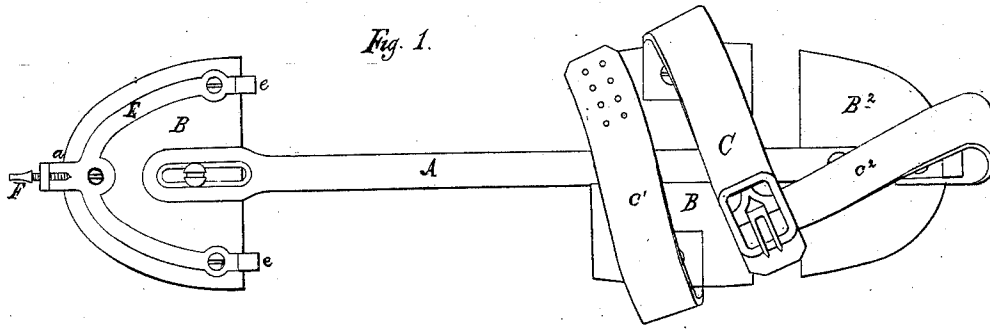


W. M. Connell,
Ice Creeper.

N^o 23480.

Patented Apr. 5, 1859.



Witnesses.

Henry Dairne
James See

Inventor.

W. M. Connell

UNITED STATES PATENT OFFICE.

WM. McCONNELL, OF PHILADELPHIA, PENNSYLVANIA.

SANDAL.

Specification of Letters Patent No. 23,480, dated April 5, 1859.

To all whom it may concern:

Be it known that I, WILLIAM McCONNELL, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and Improved Sandal; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention relates to an improvement in the construction of sandals or "clogs" worn by ladies in wet weather for keeping the feet dry. And my improvement consists in constructing a sandal of three blocks of wood or other suitable material attached to an elastic rod, the said blocks being so arranged in respect to each other that one shall coincide with the heel, another with the ball, and the third with the toes of the wearer's foot, as fully described hereafter, so that the blocks may accommodate themselves to the different positions which the above parts of the foot assume at every step, thereby affording an efficient protection to the feet in damp weather, without putting the wearer to that inconvenience which is presented by the rigidity of ordinary wooden soled shoes and sandals.

In order to enable others to make and use my invention, I will now proceed to describe its construction and operation.

On reference to the accompanying drawing, which forms a part of this specification, Figure 1, is a plan view of my improved sandal. Fig. 2, a longitudinal section, and Fig. 3, a perspective view, illustrating a modified form of securing the sandal to the foot.

Similar letters refer to similar parts throughout the several views.

My improved sandal consists of the blocks B, B' and B², made of hard wood or other suitable material, and connected together by a metal strip A. The three-blocks are so situated, in respect to each other, that the block B shall be directly under the heel, the block B' under the ball of the foot, and the block B² under the toes, the blocks being so formed as to coincide laterally, the block B with the heel, and the blocks B' and B² with the sole of the boot or shoe, to which the sandal is connected.

Into the upper surface of the heel block B is let a curved metal plate E, at the rear of which is a projection *a* for receiving the

pointed screw F, and in front are two hooked projections *e*, which fit into recesses in the inside of the heel of the wearer's boot or shoe, the set screw F in the rear serving to maintain the hooked projections within the recesses, and to secure the whole firmly to the heel of the shoe.

The plate E may be secured to the heel block by screws, as illustrated in the drawing, or in any other convenient manner. The end of the elastic strip A is let into the upper surface of the heel block B, and has a slot through which the retaining screw passes into the block, so that the position of the latter may be adjusted longitudinally. The strip is also let into recesses both in the intermediate block B' and the block B², and permanently secured to both by means of screws, the strip terminating in a hooked projection *f*, which catches over the sole of the boot or shoe at the toe. Straps C and C' are connected one to each side of the intermediate block B', by means of metal plates and screws or other suitable devices, and to one of these straps is secured a buckle, for attachment to the opposite strap. A third strap C² is secured to the underside of the strip A, at the extreme end of the toe block B², and connects to the strap C, which the buckle is attached.

The elastic strip being so adjusted that the projections *e* may fit inside the heels of the wearer's shoe, and the projection *f* hooked onto the toe, the screw F is turned so as to penetrate the rear of the heel, and the ends of the straps C and C' buckled together over the foot, when the sandal is secured beyond the possibility of becoming accidentally detached from the boot or shoe.

The ordinary sandals, worn by ladies in wet weather and having rigid wooden soles, are very inconvenient, on account of their unyielding nature, which involves the necessity of the wearer adopting an ungainly and unnatural gait, the inconvenience being most severely felt at the joints of the toes near the ball of the foot.

Although the whole of the three blocks of my improved sandal are connected together and maintained in their proper relative positions by the strip A, the elasticity of the latter is such, that the blocks can accommodate themselves to the natural movements of the different joints of the wearer's foot, thus obviating the inconveniences above alluded as appertaining to sandals with rigid

soles. It will therefore be seen without further description, that my improved sandal affords an effective protection to the feet in damp weather, that it can be worn without any inconvenience, can be readily adjusted to suit the length of the shoe, and attached to and removed from the latter with facility.

Instead of fastening the heel in the manner above described, it may be secured directly to the ankle by the system of straps illustrated in the perspective view (Fig. 3); the strap P being arranged to embrace the ankle, and vertical straps made to connect the ankle strap to the heel block.

In order to prevent slipping in frosty weather, the blocks may be furnished with suitable spikes secured to their under sides.

I am aware that clogs have been made with soles made of two separate blocks hinged together as shown in the English patent of Jos. Shaller May 6, 1826. I there-

fore do not claim broadly such a device—neither do I claim a slide for adjusting the distance between the heel and the toe of the sandal, but

I limit my claim to, and desire to secure by Letters Patent,

A sandal consisting of three blocks, B B¹ and B², of wood or other suitable material, attached to an elastic metal strip A, when the said blocks are so situated in respect to each other that one shall coincide with the toes the other with the ball, and the third with the heel of the wearer's foot, as and for the purpose specified.

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

WM. McCONNELL.

Witnesses:

HENRY HOWSON,
HENRY ODIORNE.