

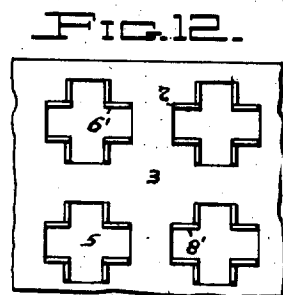
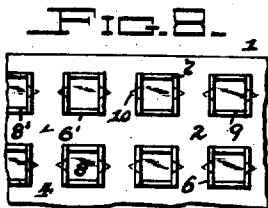
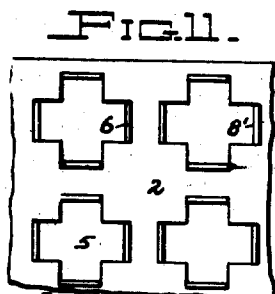
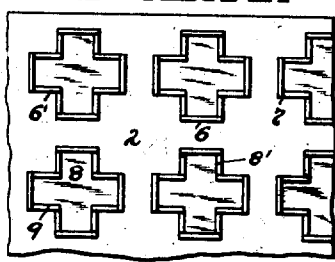
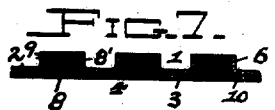
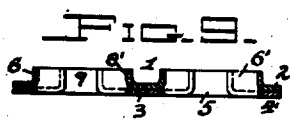
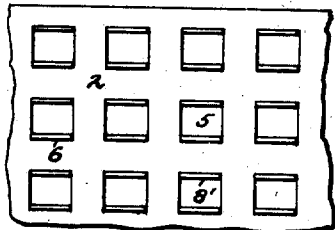
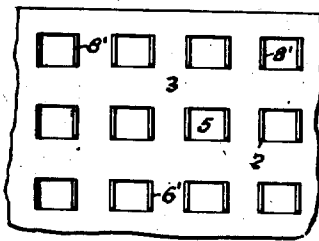
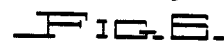
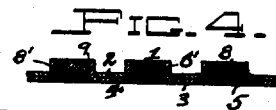
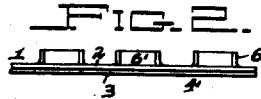
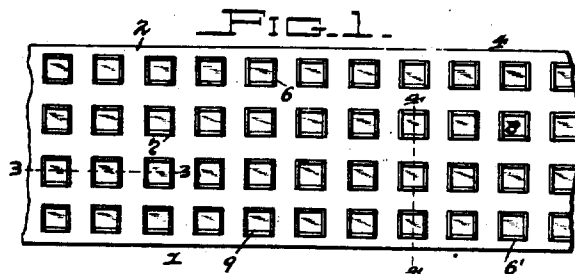
H. C. SEIPP.

SAFETY TREAD.

APPLICATION FILED JUNE 26, 1911.

1,015,642.

Patented Jan. 23, 1912.



Witnesses:
M. J. Humphries.
O. L. Thompson.

Inventor:
Harry C. Seipp.
By J. W. Cook,
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UNITED STATES PATENT OFFICE.

HENRY C. SEIPP, OF PITTSBURGH, PENNSYLVANIA.

SAFETY-TREAD.

1,015,642.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed June 26, 1911. Serial No. 635,435.

To all whom it may concern:

Be it known that I, HENRY C. SEIPP, a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Safety-Treads; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to safety-treads, such as are used upon exposed surfaces to prevent slipping and for preventing the wearing of such surfaces.

The object of my invention is to provide a cheap, simple and efficient safety-tread, which can be easily and quickly manufactured or assembled, as well as one which will be light in weight, yet strong and durable, and can be formed of standard or stock material.

To these ends my invention consists, generally stated, in the novel arrangement, construction and combination of parts, as hereinafter more specifically set forth and described and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved safety-tread, I will describe the same more fully, referring to the accompanying drawing, in which—

Figure 1 is a plan view of my improved safety-tread. Fig. 2 is a side view of the same. Fig. 3 is a cross-section on the line 3—3, Fig. 1. Fig. 4 is a like view on the line 4—4, Fig. 1. Figs. 5 and 6 are plan views of the two plates employed. Fig. 7 is a sectional view showing another form of the tread. Fig. 8 is a plan view of the same. Fig. 9 is a section showing another form of the invention with the filling omitted. Fig. 10 is a plan view of the same. Fig. 11 is a plan view of one of the plates employed in Figs. 9 and 10. Fig. 12 is a like view of the other plate.

Like symbols of reference herein indicate like parts in each of the figures of the drawing.

As illustrated in the drawing, 1 represents my improved safety-tread, which is composed of two metal plates, such as the upper plate 2 and lower plate 3, and these plates are preferably formed from thin sheet metal, such as rolled or cast steel, iron, wrought metal or other suitable hard metal to form the base 4 for such tread. Within each of the plates 2 and 3 are a series of

holes or openings 5, which are formed therein in any suitable manner, such as by punching, and as shown in Figs. 1 to 6, such holes are substantially square in shape. The holes 5 in the plates 2 and 3 register with each other, and a flange 6 extends upwardly from the upper face of the upper plate 2 on opposite sides of the holes 5 therein, while a like flange 6' extends upwardly from the upper face of the lower plate 3 on opposite sides of the holes 5 therein and at right angles to the flanges 6, which flanges 6' are adapted to fit within and against the flanges 6 by their end edges, as at 7, to form a wall surrounding said holes, and such flanges 6' are of greater height than such flanges 6 in order that the top faces of such flanges 6 and 6' will be flush with each other.

When the two plates 2 and 3 are thus assembled together, they can be connected together in any suitable manner, such as by welding between the same, riveting or bolting, and when so secured or fastened lead or rubber to form a non-slipping surface 8 can be placed in the spaces 9 formed by such flanges.

If desired, the lead or rubber in forming the non-slipping treading surface 8 can be secured therein by a suitable cement on the inner faces 8' of the flanges 6 and 6', or can be secured by keying means, such as by the V-shaped recess 10, shown in Figs. 7 and 8, which will be filled up by the material forming such surface, and if desired, carborundum or other suitable frictional material can be filled or placed in such spaces 9 in a plastic or other state to form such surface.

In Figs. 9, 10, 11 and 12, the openings or holes 5 in the plates 2 and 3 are of substantially cross shape, in which case the flanges 6 on the plate 2 are formed at the ends of the holes 5 therein, and the flanges 6' on the plate 3 are in the right angle portions of the holes 5 in such plate with their end edges within and abutting against the flanges 6.

Various other changes and modifications in the design application and construction of my improved safety-tread may be resorted to, without departing from the spirit of the invention or sacrificing any of its advantages.

What I claim as my invention and desire to secure by Letters Patent is—

1. As a new article of manufacture, a

safety-tread comprising two metal base plates having openings within the same registering with each other, and flanges extending up from said plates and around such openings to form spaces between the same for the reception of a non-slipping material.

2. As a new article of manufacture, a safety-tread comprising two metal base plates having openings within the same registering with each other, and flanges extending up from said plates and around such openings to form spaces between the same for the reception of a non-slipping material, said flanges having their upper edges flush with each other.

3. As a new article of manufacture, a safety-tread comprising two metal base plates having openings within the same registering with each other, and flanges extending up from said plates and around such openings to form spaces between the same for the reception of a non-slipping material, said lower plate having recessed portions, connecting with said openings for holding said material.

In testimony whereof, I, the said HENRY C. SEIPP, have hereunto set my hand.

HENRY C. SEIPP.

Witnesses:

T. B. HUMPHRIES,
J. N. COOKE.

Correction in Letters Patent No. 1,015,642.

It is hereby certified that in Letters Patent No. 1,015,642, granted January 23, 1912, upon the application of Henry C. Seipp, of Pittsburgh, Pennsylvania, for an improvement in "Safety-Treads," an error appears in the printed specification requiring correction as follows: Page 1, line 105, after the word "design" insert a comma; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 30th day of July, A. D., 1912.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.

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