No. 621,398. Patented Mar. 21, 1899.

W. H. WINSLOW.

TREAD FOR STAIRS.

(Application filed Mar. 14, 1898.)

(No Model.)

Fig. 1.

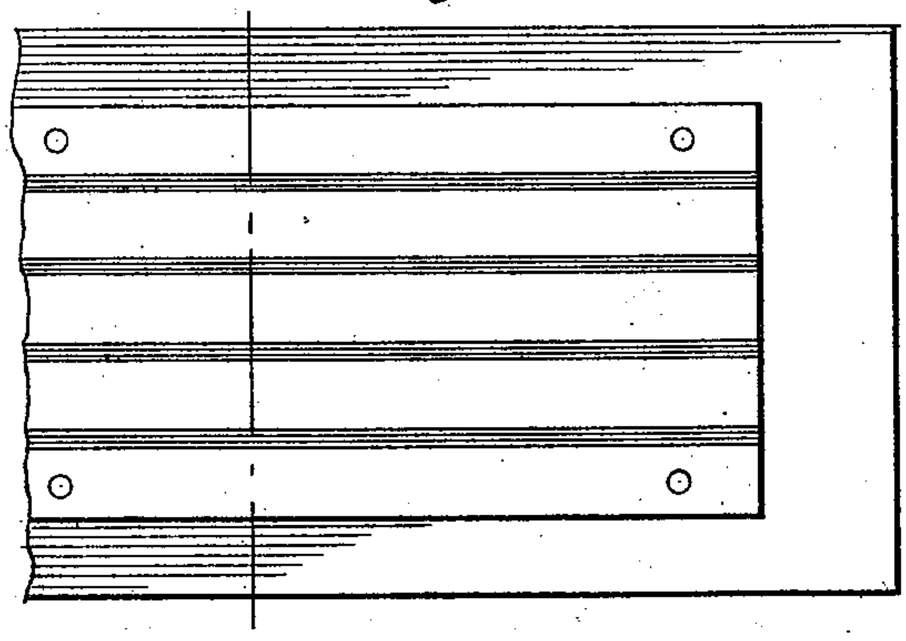


Fig. 3.

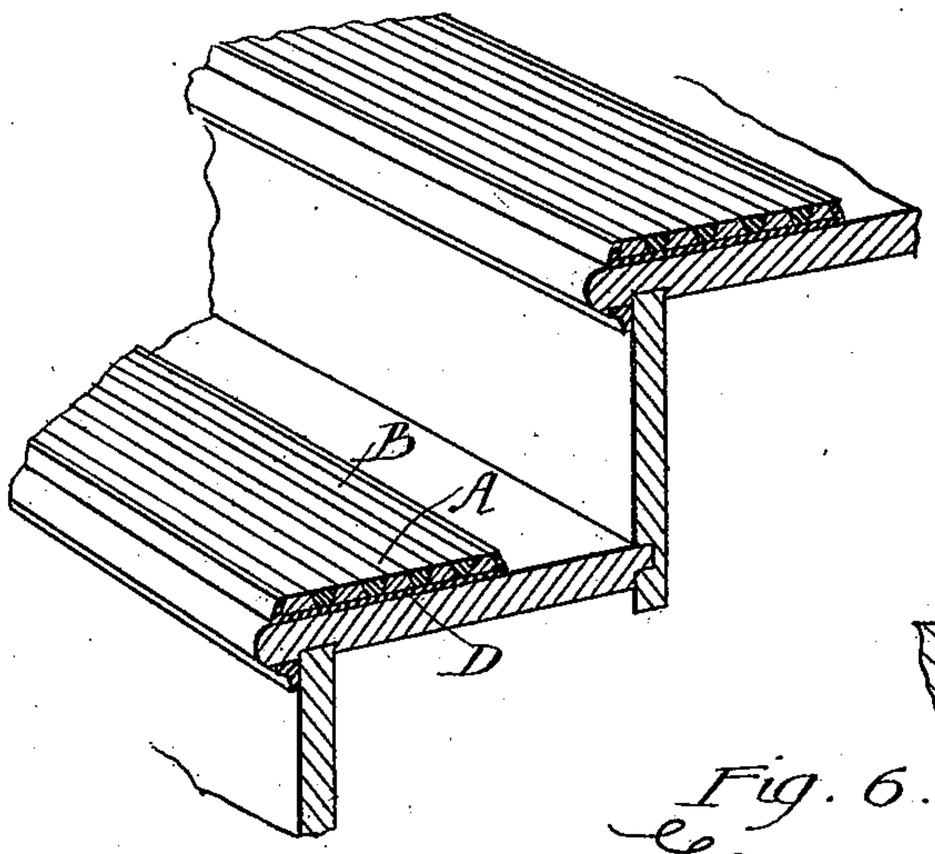


Fig. 2.

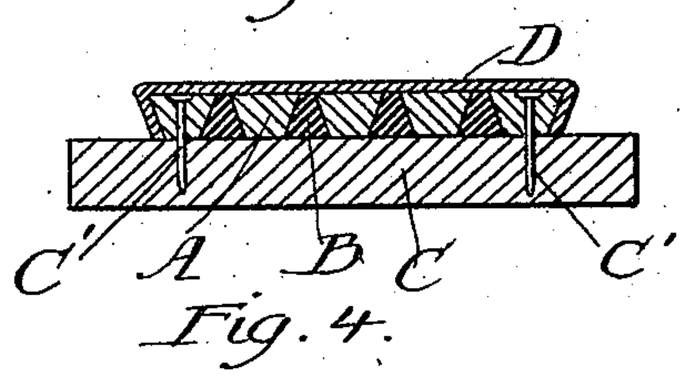


Fig. 4.

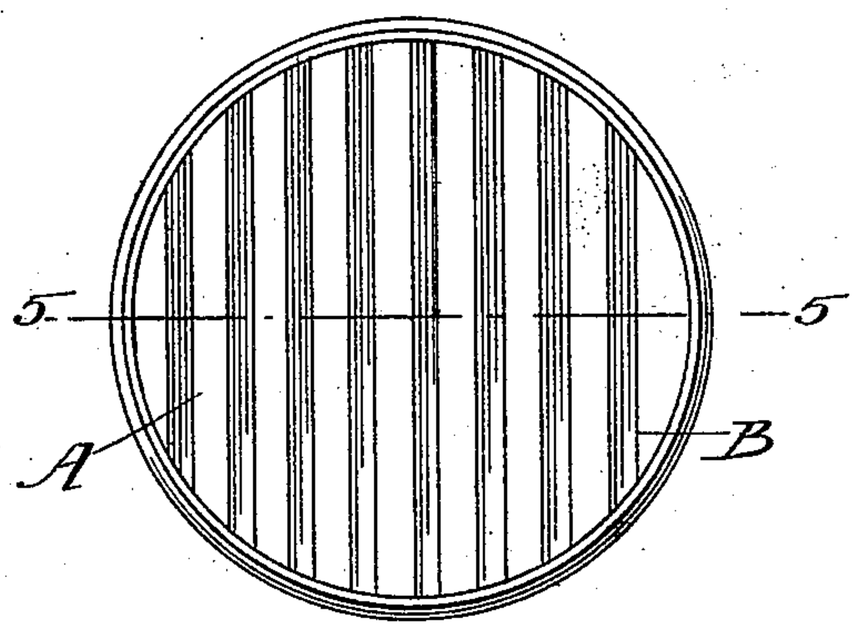


Fig. 5.

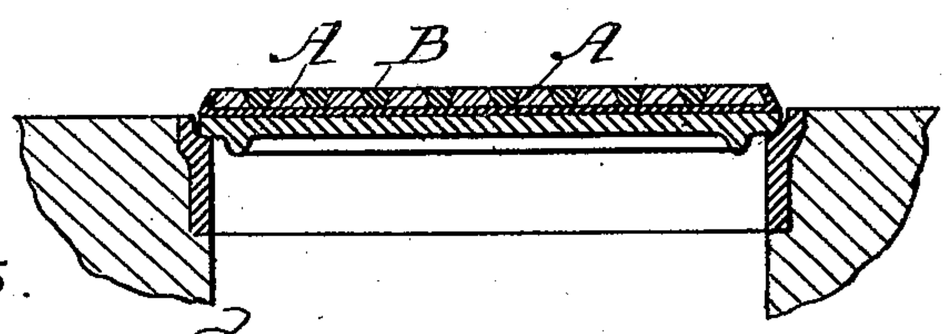
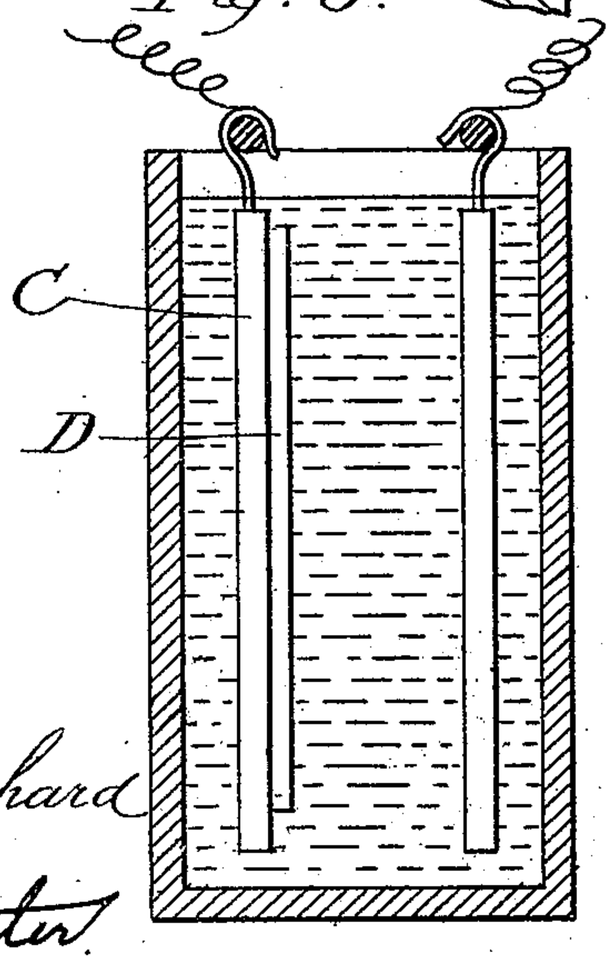


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. WINSLOW, OF CHICAGO, ILLINOIS.

TREAD FOR STAIRS.

SPECIFICATION forming part of Letters Patent No. 621,398, dated March 21, 1899.

Application filed March 14, 1898. Serial No. 673,708. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. WINSLOW, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Treads for Stairs, of which the following is a specification.

My invention relates to treads for stairs or other purposes where it is desired to prevent the slipping of the feet, and has for its object to provide a new and improved tread for this purpose.

My invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a plan view showing the parts of the tread before being placed in the bath. Fig. 2 is a section on line 2 2, Fig. 1, after the tread has been immersed in the bath. Fig. 3 is a view showing the tread in position on a stairway. Fig. 4 shows the tread applied to a manhole-cover. Fig. 5 is a section on line 5 5, Fig. 4. Fig. 6 shows the tread in the bath.

Like letters refer to like parts throughout the several figures.

The object of my present invention is to provide an article of manufacture which may be attached to the steps of stairways or to other places with which the feet come in contact and which when so attached will prevent the slipping of the feet.

In carrying out my invention I provide a series of strips of material A, this material being of such a nature as to adhere, as it were, to the feet and prevent slipping. Any desired material for this purpose may be used—such, for example, as lead. These strips may be of any desired length, and are preferably provided with inclined edges. Between the strips A, I provide a series of strips B of more rigid material—such, for example, as copper—a portion of the surface of the strips B being exposed between the strips A. It is of course evident that any desired material may be used for this purpose. The strips A and B are then attached to some suitable support C of material which is not a conductor of electricity—such, for example, as wood—or which has been treated so as to destroy its conducting properties. These strips may be attached in their proper relative position to the support C in any suitable manner—as, for example, by means of nails or the like C′. The series of strips on this support are then placed in an electrolytic bath, as shown in Fig. 6, the strips acting as the cathode and being opposed to some suitable anode, so that the coating of metal will be deposited thereon, as shown at D, Fig. 2. This deposited metal engages both the strips A and B and binds them into a solid piece or tread. It is of course evident that any suitable electrolytic bath may be used, and I of course do not limit myself in this particular. When the deposited metal D is of sufficient thickness, the tread is taken from the bath and removed from the support C. The tread is then ready for use and is attached to the stairway or other place with the deposited metal D down, so that the non-slipping material A is exposed on the surface, as illustrated in Fig. 3. The non-slipping material thus prevents the slipping of the feet, and the deposited metal D firmly binds the several strips together. The strips B, which are of more durable material than the strips A, hold the parts together and prevent the strips A from getting out of shape and also from becoming easily worn. It will thus be seen that I have here a simple and durable tread which may be applied to any surface with which the feet come in contact where it is desirable to prevent the feet from slipping. In Figs. 4 and 5 I have shown the tread as applied to a manhole-cover. In such constructions the tread would be made in the same manner as for stairs, the deposited metal D forming an outer casing in which the strips A and B are held. It is of course evident that any desired number of pieces may be assembled together in this manner, and I have attempted only to show a simple construction, so as to make my invention clear.

I have described one construction embodying my invention; but it is evident that the form, construction, and arrangement of the several parts may be varied without departing from the spirit of my invention, and I therefore do not wish to be limited to the construction shown.

I claim—

1. As an article of manufacture, a tread adapted to be attached to stairs or other places with which the feet come in contact and comprising a series of strips of non-slipping material, a series of strips of harder material in-

termediate or between the strips of non-slipping material, the several strips placed in proximity to each other so as to form a practically continuous surface, and a layer of deposited metal which engages the several strips and binds them firmly together.

2. As an article of manufacture, a tread for preventing slipping of the feet, comprising a series of strips of non-slipping material provided with inclined or beveled edges, a series of strips of harder material also provided with beveled edges and placed intermediate or between the strips of non-slipping material, the several strips associated together so as to form a substantially continuous surface, and a coating of electrically-deposited metal on one of the continuous surfaces formed by said strips, said electrically-deposited metal engaging the strips and binding them firmly together.

3. As an article of manufacture, a tread to prevent slipping of the feet, comprising a series of strips of non-slipping material, a series of independent strips of harder material intermediate or between the strips of non-slipping material, the several strips associated together so as to form a substantially continuous surface, and a binding device adapted to firmly bind the several strips together.

4. As an article of manufacture, a tread to prevent slipping of the feet, comprising a series of strips of non-slipping material provided with inclined or beveled edges, a series of intermediate strips of harder material provided with inclined or beveled edges and loosely inserted between the strips of non-slipping material, the several strips associated together so as to form a substantially continuous surface, and a binding device associated with said strips and adapted to firmly bind them together.

WILLIAM H. WINSLOW.

Witnesses:
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