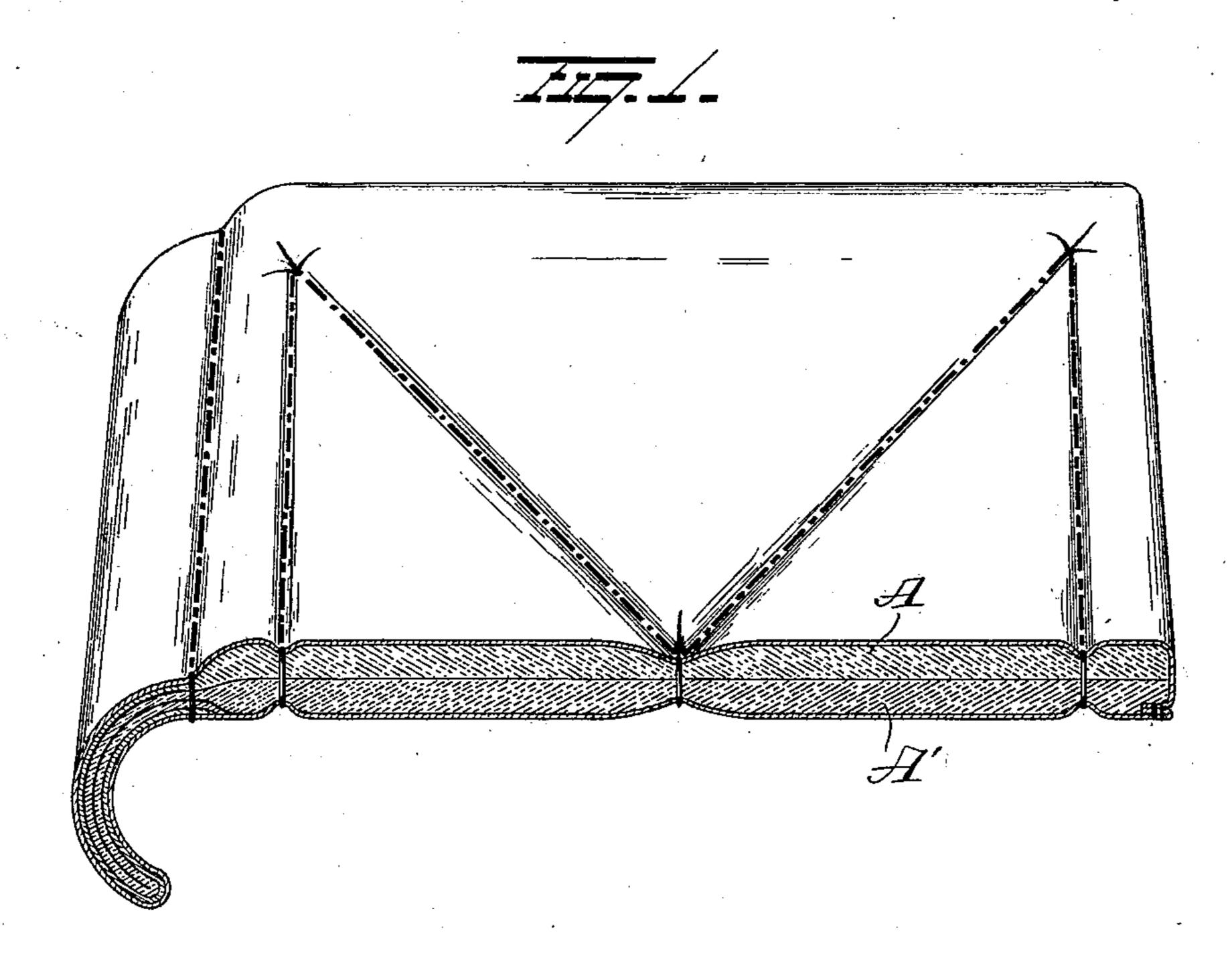
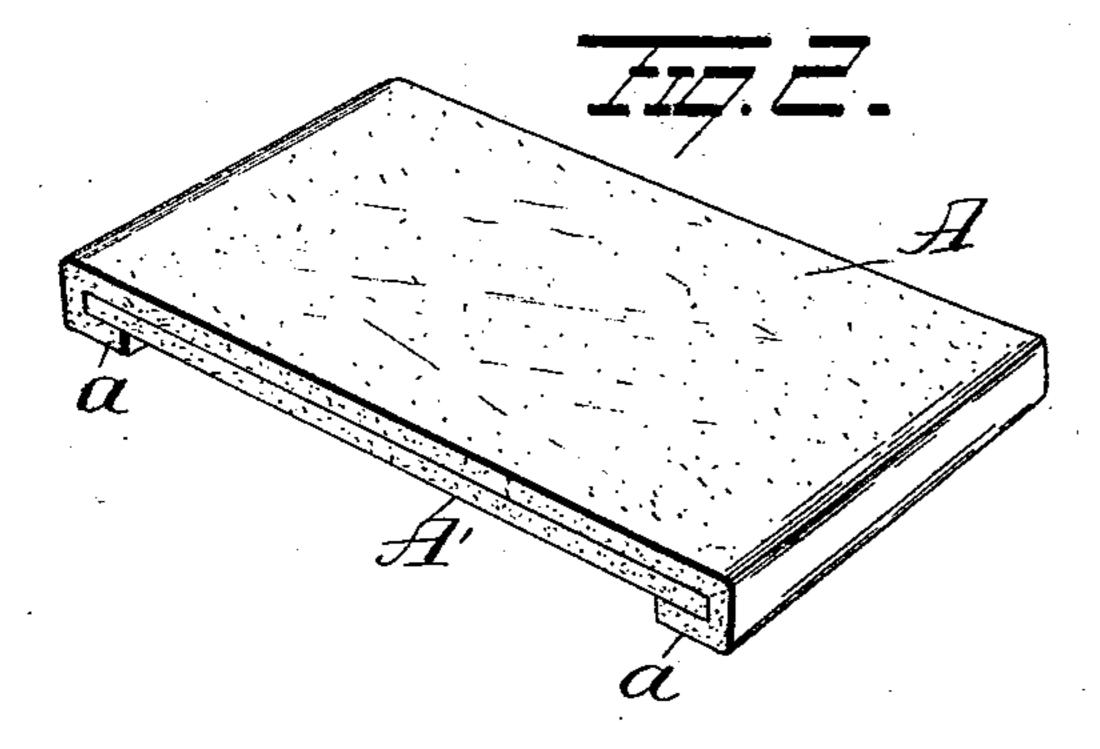
(No Model.)

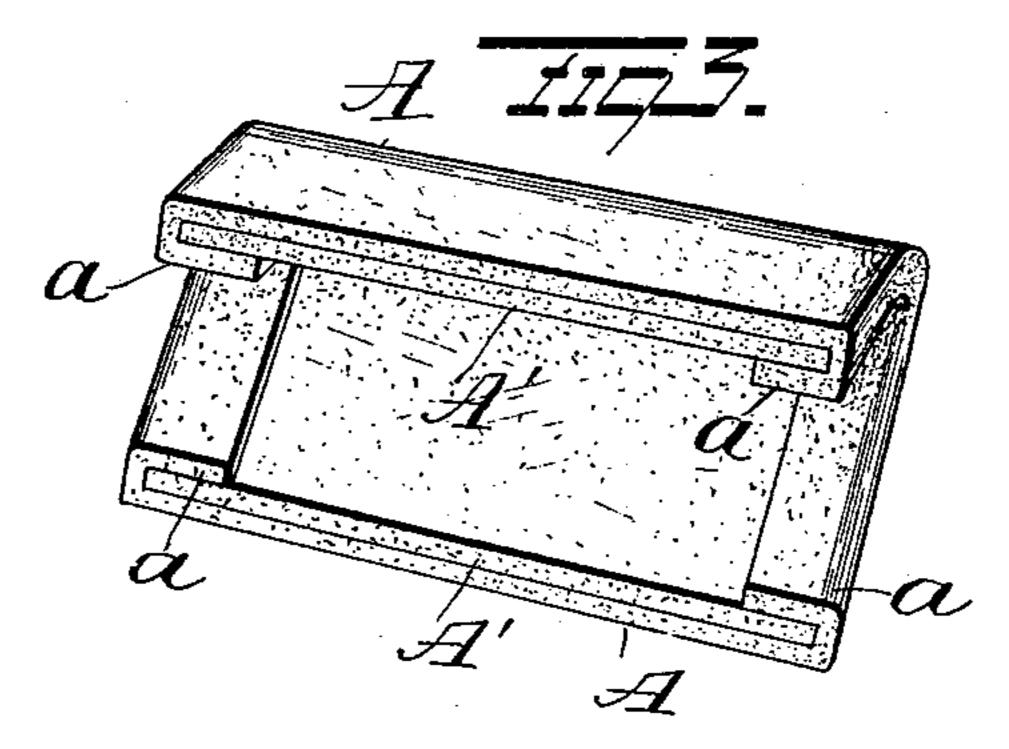
M. H. MARCUS. STAIR PAD.

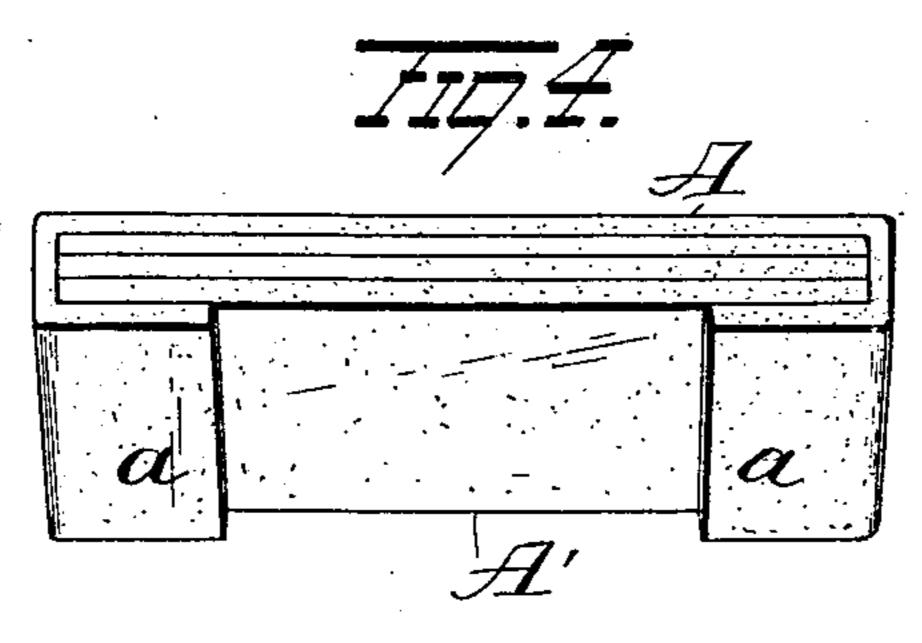
No. 521,593.

Patented June 19, 1894.









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UNITED STATES PATENT OFFICE.

MARTIN H. MARCUS, OF BALTIMORE, MARYLAND.

STAIR-PAD.

SPECIFICATION forming part of Letters Patent No. 521,593, dated June 19, 1894.

Application filed March 8, 1894. Serial No. 502, 903. (No model.)

To all whom it may concern:

Be it known that I, MARTIN H. MARCUS, of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Stair-Pads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in

stair pads.

A variety of pads have been constructed heretofore in which an edge of the pad was curved or bent into a nosing adapted to grip 15 the outer edge of a stair tread, and thus render the use of nails at this point unnecessary. A few of these may be briefly alluded to for the purpose of making clearer the novel features and advantages of my present inven-20 tion. For instance, a pad has been constructed of felt with a nosing formed at its outer edge by bending the felt at this point while the felt is moist or wet. This style of pad has never come into general use for obvious 25 reasons among which is the fact that it is too costly and furthermore it is not soft and cannot be cleaned. Another variety is partly made of paper and loose elastic filling. A pad thus constructed soon becomes hard, 30 lumpy and matted and of course cannot be washed or readily restored again to its normal state. Still another style of pad has been furnished with curved stiffening nose forming strips secured as a lining to the covering 35 case part at the nosing. But this construction is likewise objectionable because it could not be washed, does not retain its shape, and more especially because when constructed with a paper lining the bend had to be made 40 comparatively large else the paper would become cracked or broken. The consequence was that the nosing was not only unnecessarily large but also did not fit the stair edge properly, and more material was required in 45 consequence to cover and form the pad than would have been absolutely needed if the paper could have been bent in a smaller curve, all these defects I have successfully remedied in my own pad which has for its objects cheap-50 ness of construction, softness and retention l

of its original softness, and capability of being cleaned, washed, and restored to its original shape. And it consists in layers of cotton batting preferably placed together and having a nosing formed at one edge by applying a sizing of chemicals calculated to stiffen the pad at that point and then forming it into a curved nosing between formers or in other suitable manner.

It further consists in certain novel features 60 of construction and combinations of parts which will be hereinafter described and point-

ed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view of my improved pad. Figs. 65 2 and 3 are details showing mode of construc-

tion and Fig. 4 is a modification.

A A' represent two layers of cotton batting. These may be variously placed together but preferably the two layers are put together as 70 follows: One of the layers of batting is longer than the other and the ends a a are folded over the shorter layer. Then a sizing or stiffening solution is applied to a certain portion of the surface of one of the layers, usually 75 the lower side of the lower layer and the outer edge for about three and a half inches is folded under as shown so that the sizing or stiffening solution as well as the ends a, a, are inside. The pad thus far formed is placed 80 under rollers or other compressing devices so that the sizing or solution is forced into the interstices of the batting and the latter becomes more or less completely impregnated with it and the two become homogeneous so 85 to speak. Then the folded portion with incorporated stiffening solution is bent over a mold or former and allowed to dry and harden in a kiln, oven or suitable drying chamber. The ends a a thus constitute reinforcing 90 strips which give added strength to the pad at the ends and help in retaining the shape of the pad which has already been given it. The gripping capacity thus given at these points would be about sufficient to hold the 95 pad on the edge of the tread but in addition to this gripping of course the entire nosing also grips the entire length of the stair nosing. An outside casing of muslin or other material is placed over the batting and the 100 portion under the nosing is pasted to the nosing so as to conform to its shape at this point. When thus put together the tread portion is preferably quilted, tufted, or otherwise fastened.

While cotton batting is generally used and preferred, wool, shoddy, or carded cotton might be employed just so these are formed

into batting or in sheets.

riously compounded but I have found that glue with water or glue and glycerine, or glue, glycerine, and gelatine make a very good solution for the purpose. This makes a sufficiently rigid nosing and at the same time a sufficiently yielding one and any amount of wear and tear will not destroy the shape of the pad. The pad may be pounded or washed to remove dirt collected in it and by quilting it, it does not lose its shape, evenness, or its pliability and elasticity. In short it cannot become lumpy or matted.

As a modification four or any number of layers of batting may be employed, instead of two layers only, as previously described.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention and hence I do not wish to limit myself to the exact construction herein set forth, but

Having fully described my invention, what I claim as new, and desire to secure by Letters

Patent, is—

1. A stair pad composed of two or more layers of soft elastic material secured together and having one edge bent to form a nosing, said nosing portion having a stiffening solution applied to and incorporated therein to

give it sufficient rigidity to preserve its round- 40 ed shape, substantially as set forth.

2. A stair pad composed of layers of cotton batting one edge of which is bent to form a nosing and having a stiffening solution applied thereto whereby to give it sufficient rigidity to preserve its shape and the remaining portion, tufted or otherwise fastened to hold the layers together and preserve the normal shape of the pad, substantially as set forth.

3. A stair pad composed of layers of soft 50 material, one edge of which is reinforced by additional layer of the same kind of material which forms the body portion, said reinforced portion bent to constitute a nosing,

substantially as set forth.

4. A stair pad composed of layers of soft material, one edge of which is reinforced by additional layers of the same kind of material which forms the body portion, said reinforced portion having a stiffening solution aposic plied thereto and bent to form a nosing, substantially as set forth.

5. A pad composed of layers of batting or equivalent material, one layer longer than the other and lapped around it, a portion coated 65 with a sizing, or stiffening solution and folded upon itself and this folded portion pressed to force the solution into the interstices and formed into a curved nosing, substantially as set forth.

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

MARTIN H. MARCUS.

Witnesses:

J. C. LOWENBACH, WILLS LEE.