E. WAITE.

CARPET WADDING.

No. 66,539. Patented July 9, 1867.

Fig. 1.

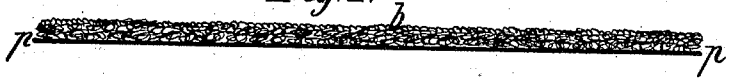
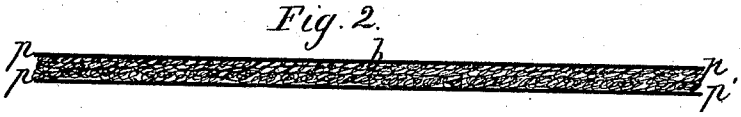


Fig. 2.



Witnesses;
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Letters Patent No. 66,539, *dated July* 9, 1867.

IMPROVED CARPET-WADDING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, ENOCH WAITE, of Franklin city, in the county of Norfolk, and State of Massachusetts, have invented an improvement in the Manufacture of Carpet-Wadding; and do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, marked Figures 1 and 2, which represent transverse sections of the new carpet-wadding or fabric. In such figures *p p* and *p' p'* denote the sheets of paper, and *b* the sheet or layer of fibrous material or batting, applied and fixed to the said paper in accordance with what is hereinafter explained.

The articles now in general use for covering floors and preventing the wear of carpets are wadding, cotton batting, and paper of various kinds; also, batting or thin sheets made of fibrous substance enclosed between two sheets of paper, and secured to the latter by cement.

The improved article I have invented is composed of a sheet of batting and one or more layers of paper stuff or pulp, so united and consolidated as to combine not merely the advantages due to a paper that is impervious to dust, and those of a batting or soft fibre that is slightly elastic or yielding to the tread, but that of a pulpy adhesion of the fibrous material or batting to the paper that forms its coating or exterior, such pulpy adhesion preventing the displacement of the fibrous substance, and insuring uniform thickness of the wadding when laid down upon a floor under a carpet. The bat or layer that gives elasticity to the wadding may be composed of one or more fibrous substances, or may consist of the waste of cotton or other fibrous material. This article of mine, called "Improved Carpet-Wadding," may be manufactured in various ways, one of which may be described as follows: Paper pulp or stuff is to be prepared in the same manner as for the manufacture of paper. It is next to be carried forward on an endless apron, and as soon as it is of the right consistence, that is to say, partially hardened, but not dry, the batting or layer of fibrous material should be pressed upon it by a roller or other suitable mechanism which will cause the fibres on the outside of the sheet of batting to enter or be driven into the paper pulp, or be mingled or incorporated with it. The sheet of batting and the layer or layers of paper pulp are next to be passed between and compressed by squeezing-rollers in order to expel the moisture from the pulp and cause it to harden and close upon the fibres of the batting. Next, the combined sheets of batting and pulp are to be passed between and compressed by calender rollers, in order to give an even and smooth surface to the paper and condense the batting or sheet of fibres.

In some cases I make use of the fabric as above stated, that is to say, of a single sheet or layer of batting having upon only one of its sides a coat or layer of paper adhering thereto without the use of gum, mucilage, starch, or other similar substance heretofore employed for connecting paper to a bat; but, generally speaking, I prefer to coat each of the sides of the batting or sheet of fibrous material with the paper pulp. I thus form (without the use of any adhesive gums or similar substance) a fabric having an exterior of paper and an interior of fibrous material, such, when used under a carpet, serving to prevent it from wearing, and insuring to it a suitable elasticity and an even surface.

The pulp may be made of various substances; for instance, when great strength is required, I use manilla hemp or grass in making it. Paper pulp made from leather scraps and from the fibrous bark of the cedar, may also be used; this latter material, also, being of value for the preservation of the carpets from injury by moths.

What I claim, and desire to secure by Letters Patent, is—

An improved carpet-wadding, composed of one or more bats of fibrous material, and one or more layers or sheets of paper combined, by embedding or pressing the fibrous bat or bats upon and into the paper while the latter is in the condition of partially hardened pulp capable of receiving the fibres of the bat or bats, and when dry of adhering and holding them in place or in connection with the sheet or sheets of paper without the use of starch, paste, or an adhesive gum, as heretofore employed for such purpose.

ENOCH WAITE.

Witnesses:

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