

UNITED STATES PATENT OFFICE.

LOUIS BASTET, OF SOUTH ORANGE, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO WILLIS A. BARNES, OF NEW YORK, N. Y.

ELASTIC PAPER OR FELTING FOR CARPET-LINING.

SPECIFICATION forming part of Letters Patent No. 346,799, dated August 3, 1886.

Application filed October 15, 1885. Serial No. 179,979. (Specimens.)

To all whom it may concern:

Be it known that I, LOUIS BASTET, a citizen of the United States, residing at South Orange, in the county of Essex and State of New Jersey, have invented new and useful improvements in a combination of substances for the manufacture of an improved elastic paper or felting for carpeting-lining, of which the following is a specification.

10 This invention relates to materials used for carpet-lining, sheathing, &c.; and it consists in the combination of certain waste products, hereinafter mentioned, to produce a fabric or felt of superior qualities for that purpose.
15 The material which composes the carpet-lining is corn-cob in combination with raw paper-stocks, known in the trade as "colors" or "satinets," or the waste of carpet and woolen mills, known as "shoddy." I may, however,
20 use as a paper-stock the fiber of the *typhalatifolia* after treatment by chemical process, or with sawdust or any equivalent material mixed with it to give strength and durability to this fiber, any common paper-stock may be used
25 with the corn-cob.

In the preparation of the corn-cob to be used in the manufacture of my elastic carpet-lining, it is carefully selected and freed from any attaching kernels of corn, corn-silk, or hulls of
30 the corn. The cob is then ground in a burr-stone grinding-mill, or any other suitable mill, to about the fineness of wheat-bran, care being taken not to reduce it too fine for elasticity. It is then passed through sieves of the proper
35 size, by which the imperfectly-ground portions of the cob and other useless substances are removed. The ground corn-cob is then ready for use in the manufacture of my elastic carpet-lining.

40 In the manufacture of my elastic carpet-lining from the materials above specified I grind the raw paper-stock in a grinding or triturating machine, in a way similar to that in which paper-stock is now prepared, until the same is
45 brought to a degree of fineness of pulverization requisite for its manufacture into paper, and just after the grinding process is complete I add the ground corn-cob, but do not pulp it.

I prefer to use from twenty-five to forty per cent. of the ground corn-cob in the manufacture of my elastic carpet-lining, though I do not limit myself to this proportion. The *typhalatifolia* is added in the proportion of five to ten per cent., but I do not limit myself to this proportion.

I may omit the use of any one of the articles of paper-stock above specified, substituting a larger proportion of some of the other materials specified or supplying some equivalent material.

The advantages of my invention are adding to the useful arts a new product in the manufacture of carpet-lining of a very elastic nature, whereby the wear or use of carpets may be very largely increased, and it also provides an elastic carpet-lining better and cheaper than any hitherto used. It is also an excellent material for packing glassware. The superiority of the fabric thus partly composed of corn-cob is due to the fact that while the cob is equally as soft and elastic as cork, which up to this time has been considered the best known substance for these qualities, the cob is spongy and will absorb water when mixed with the pulp, and thus mix uniformly with the rest of the pulp, while cork, which resists the water, tends always to the surface and fails of uniform mixture.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

As a new article of manufacture, a felt or fabric composed of raw paper-stock, as above specified, in combination with ground corn-cobs, mixed with the pulp subsequently to the grinding of it, substantially as described, and for the purposes set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

LOUIS BASTET.

Witnesses:

W. J. MORGAN,
S. H. MORGAN.