

# UNITED STATES PATENT OFFICE.

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## PROCESS FOR TREATING ADHESIVE MATERIAL.

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Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, THOMAS SHAW HALL, a citizen of the Dominion of Canada, and a resident of the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Processes for Treating Adhesive Material, of which the following is a specification.

This invention refers to treating adhesive material of any kind; but in particular it refers to materials of aporous nature, such as paper, wood, or any textile or felted fabric.

Adhesive textile fabrics in the form of sheets or strips are used for a great many different purposes and under a great many different conditions, and as a result of very large and varying use it has been found that if sheets of textile fabric or material impregnated in the usual manner with an adhesive substance are imposed one upon the other and subjected to a slight pressure and a moderate degree of heat they will adhere one to the other in such a manner that it will become almost impossible to separate them without mutilation.

The object of this invention is to devise a process of treating textile or other material with a coating of an adhesive substance in such a manner as to obviate the above-mentioned and other difficulties.

This process may be carried out by means of various apparatus and with many modifications, the following description illustrating one method of employing this process: The sheet or strip of textile or other material is first coated on one side with an adhesive substance, such as glue, mucilage, or the like. This may be done in any convenient manner, as by dipping one surface of the material in a bath containing the adhesive substance in solution or by any other suitable means whereby a substantially even coating of the adhesive substance is applied to the surface of the material. The sheet or strip is then dried by natural or artificial heat or in a current of air, thereby evaporating all the volatile matter from the adhesive substance which has adhered to the fabric. When the material is thoroughly dried, the strip or sheet is then coated on the opposite side from which the adhesive substance has been applied with a waxy substance, such as paraffin

or the like. This may be done by applying the substance with a brush, by dipping the material into the substance when the substance is rendered liquid—as, for example, a bath of melted paraffin—or in any other appropriate manner. The object of thus treating the material is to prevent the adhesive substance from penetrating through the material, so that it is confined to the surface of the fabric, where it is desired, and, further, it prevents the adhesion of the adhesive face of one piece of fabric to the back of the next piece when the pieces are arranged in piles and are subjected to heat or pressure, or both. The material thus coated is then dried in an appropriate manner and when thus dried is ready for use as desired.

Without describing the many modifications of which this invention is capable or the various manners by which this process can be carried out and without limiting myself to the above-described apparatus for attaining this result, what I claim as the novel and characteristic features of this my invention are the following:

1. As a new article of manufacture, an adhesive sheet of fabric coated on one side with a film coating of dried adhesive and on the other with a film coating of a waxy substance.

2. As a new article of manufacture, an adhesive sheet of fabric coated on one side with a film coating of dried glue and on the other with a film coating of paraffin.

3. The process of preparing adhesive sheets which consists in superficially coating one side with a fluid adhesive, sharply drying the coated sheet to form a film coating of said adhesive in a dried condition, and then filming the other side with a waxy substance.

4. The process of preparing adhesive sheets which consists in superficially coating one side with fluid glue, sharply drying the coated sheet to form a film coating of dried glue and then filming the other side with paraffin.

Signed this 3d day of December, 1903, at New York, N. Y.

THOMAS SHAW HALL.

Witnesses:

WALTER F. HINCKLEY,  
HENRY SAMUEL MORTON.