

UNITED STATES PATENT OFFICE.

JOHN A. KICK, OF CHICAGO, ILLINOIS.

PROCESS OF UNITING WAXED PAPER.

1,408,746.

Specification of Letters Patent.

Patented Mar. 7, 1922.

No Drawing.

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To all whom it may concern:

Be it known that I, JOHN A. KICK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Processes of Uniting Waxed Paper, of which the following is a specification.

My invention relates to the process of uniting paper that has previously been subjected to treatment with wax, whether impregnated or coated.

It may be remarked that paper so treated can not be securely united by the simple application of an adhesive, while a bond formed by melting and congealing the wax is no stronger than the wax used in coating the paper, even though a hard wax be interposed.

Therefore, my invention has for its object to so securely unite waxed paper that the bond will be as strong as the paper.

In my process I apply a coat of adhesive to the portions of the waxed paper to be united and bring said portions into contact. Then I apply sufficient heat to said portions to melt the wax and sufficient pressure to hold said portions securely together until the adhesive has set and preferably retaining a pressure without heat until the wax has congealed.

The exact composition of the adhesive is of no great consequence and in this connection I wish it understood that I use the word adhesive in its broadest sense, to indicate any material that may be practicably employed to unite paper. However, from a

standpoint of cost and to expedite the process I prefer to use a quick drying, viscid adhesive containing as small a percentage of moisture as is practicable.

I have found that an adhesive made by dissolving dextrine in water and adding some element such as borax in a sufficient quantity to secure the desired viscosity, gives satisfactory results at small expense.

I make no claim for the application of adhesive or heat, separately, one without the other, but rather the application of both adhesive and heat as previously set forth.

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

1. The process of uniting waxed paper which consists of applying a coating of a viscid adhesive to the portions to be united, placing said coated surfaces into contact and thereafter applying sufficient heat to said portions to melt the wax and sufficient pressure to hold said portions securely in contact until the adhesive has set, thereafter retaining pressure without heat until the wax has congealed.

2. The process of uniting waxed paper which consists of applying a coating of adhesive to the portions to be united, placing said coated surfaces into contact and thereafter applying sufficient heat to said portions to melt the wax and sufficient pressure to hold said portions securely in contact until the adhesive has set, thereafter retaining pressure without heat until the wax has congealed.

JOHN A. KICK.