

W. LEWIS.

MACHINE FOR MAKING CARPET-LINING.

No. 171,292.

Patented Dec. 21, 1875.

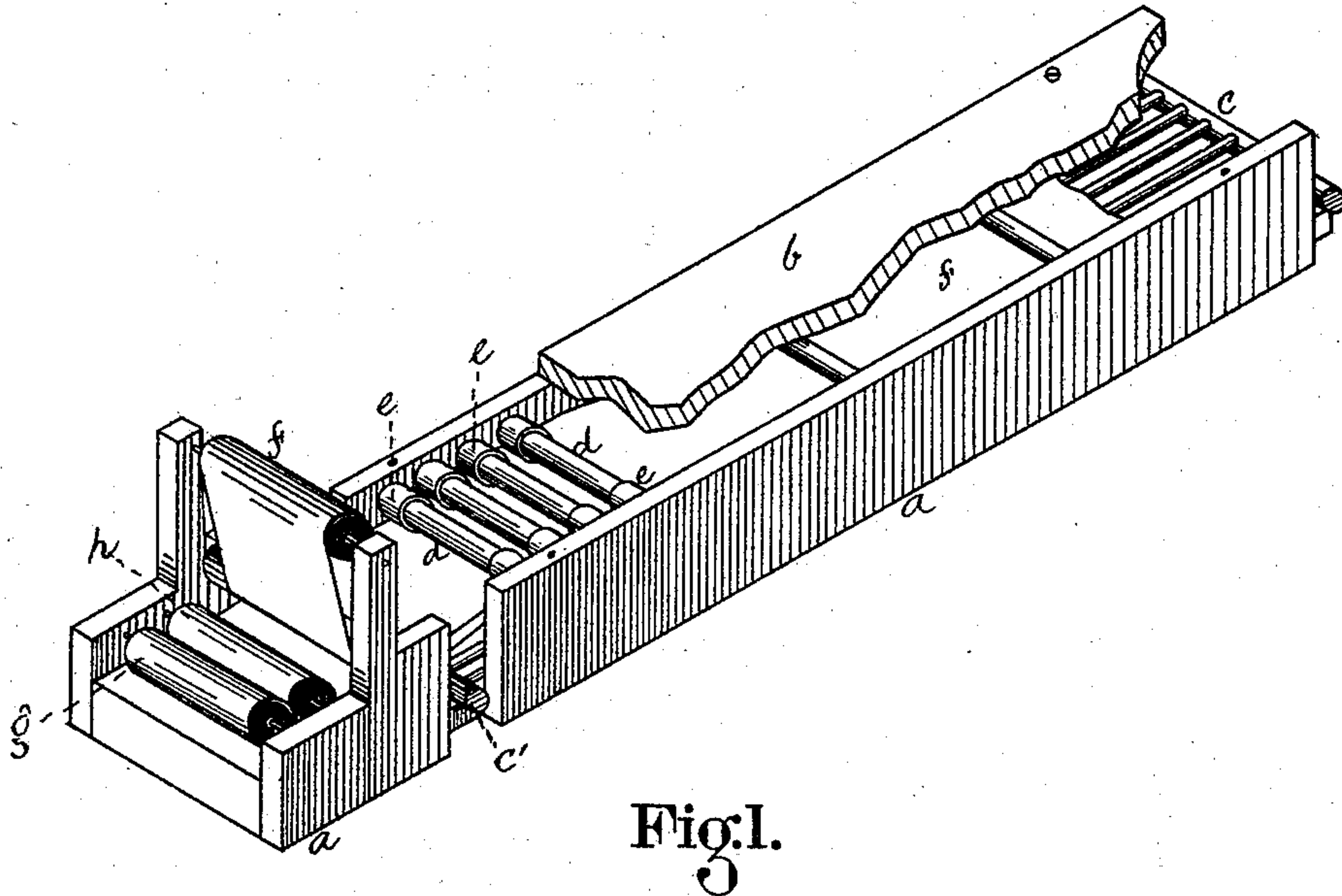


Fig. 1.

Witnesses;
C. W. Tuttle
E. A. Stock.

Inventor;
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by J. H. Adams
Att'y.

UNITED STATES PATENT OFFICE.

WILLARD LEWIS, OF WALPOLE, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR MAKING CARPET-LININGS.

Specification forming part of Letters Patent No. **171,292**, dated December 21, 1875; application filed September 4, 1875.

To all whom it may concern:

Be it known that I, WILLARD LEWIS, of Walpole, in the county of Norfolk and State of Massachusetts, have invented a Machine for Making Carpet-Lining, of which the following is a specification:

My invention relates to the manufacture of carpet-lining in which a layer of cotton batting, wadding, or flock is interposed between strips of paper, the edges of which are joined together by mucilage or cement.

In machines used for the manufacture of this class of carpet-lining, as ordinarily constructed, it is found that the adhesive substance used in cementing the edges of the paper covering together does not always satisfactorily accomplish the purpose, inasmuch as it is not sufficiently dried in passing through the machine at a rapid rate.

It is the object of my invention to obviate this difficulty; and to that end my invention consists in combining, with the usual devices for manufacturing carpet-lining, a drying-chamber, through which the lining is caused to pass after the mucilage or cement has been applied to the paper covering, the same being subjected to the action of pressure-rollers, which are so constructed as to press more particularly the edges of the paper covering.

The drawing is a perspective view of a machine embodying my invention, a portion of the top being represented as broken away to show the pressure-rollers and drying-chamber.

a a represent the frame of the machine, which may be some twenty-five or thirty feet in length, the main portion having a covering, *b*. *h* represents the roll of cotton batting or wadding composing the filling of the lining. *f*

and *g* are the paper rolls forming the outside covering. *d d* represent rollers having enlarged ends *e e*. These enlarged ends are for the purpose of exerting a pressure upon the gummed edges of the paper covering, and avoiding too great pressure upon the filling. There may be as many of these as are found necessary. The edges of the paper covering are to be supplied with mucilage or cement in the usual manner. In the bottom of the chamber, through which the paper lining passes after the mucilage is applied, is arranged a series of pipes or tubes, connecting with a cross-pipe, *c c'*, at each end, as shown. Into these pipes is introduced exhaust steam from the engine that drives the machine. The gummed edges of the covering, as the latter passes through the chamber, thus become thoroughly dried, and the edges thoroughly adhere together.

By means of the devices and process above described carpet-lining can be manufactured with greater economy and dispatch, as well as more effectually, than that made by machines in present use.

I claim as my invention—

The combination of the pressure-rollers, constructed as described, the heating apparatus, and the confining-chamber, all arranged as and for the purpose set forth.

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

WILLARD LEWIS.

Witnesses:

G. A. A. PEVEY,
J. H. ADAMS.