

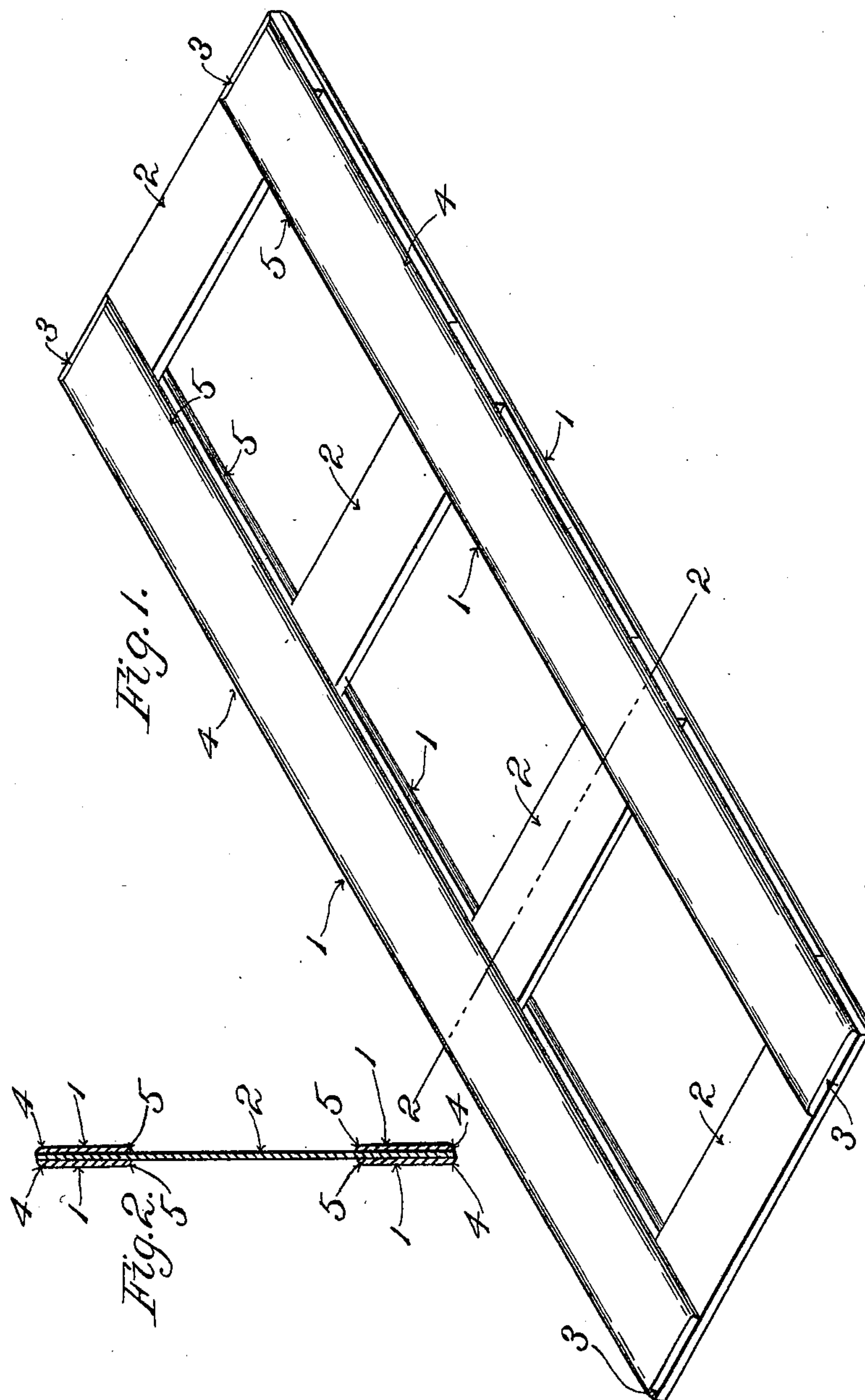
No. 625,937.

Patented May 30, 1899.

J. C. MURPHY.
SKELETON CLOTH WINDING BOLT FRAME.

(Application filed Jan. 18, 1898.)

(No Model.)



Witnesses:

Oscar F. Hill
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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN C. MURPHY, OF NEW YORK, N. Y., ASSIGNOR TO THE BOSTON LOAN COMPANY, OF BOSTON, MASSACHUSETTS.

SKELETON CLOTH-WINDING BOLT-FRAME.

SPECIFICATION forming part of Letters Patent No. 625,937, dated May 30, 1899.

Application filed January 18, 1898. Serial No. 667,064. (No model.)

To all whom it may concern:

Be it known that I, JOHN CONWAY MURPHY, a citizen of the United States, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented new and useful Improvements in Skeleton Cloth-Winding Bolt-Frames, of which the following is a specification.

Certain kinds of cloth reach the hands of dealers, consumers, &c., in the form of flattened rolls or bolts wound upon central supports constituted by thin boards. The said boards remain within the bolts as central supports therefor to preserve the goods in good and perfect condition and facilitate the storage, packing, transportation, and handling thereof until the cloth is unwound and removed therefrom for sale, use, or other purposes. The board ordinarily employed at the present day consists, as the name imports, of a thin piece of wood in the form of a sheet or board, the length thereof corresponding substantially with the width of the web of cloth which is to be wound upon the same. In most cases the board is thrown away after the removal of the cloth therefrom, and hence it is requisite that the board should be inexpensive in order that the use thereof may not unduly lessen the profits of the manufacturer or dealer or increase the cost of the goods to the purchaser or consumer. This consideration compels the board to be of simple character and construction and to be made of low-priced material. The ordinary bolt-board is frequently injured or broken as a result of the usage to which it is subjected both before and after having the cloth wound thereon or in consequence of the strains to which it is subjected in the process of winding the cloth thereupon after it has been applied to the chucks or other means of supporting and rotating the same in the winding-machine. It also is liable to warp out of shape and to split or crack, with resulting damage or injury in either case to the bolt of cloth which is wound thereon. The weight of the bolt-board becomes of importance when transportation charges based upon weight are considered, for it will be obvious that a fairly large portion of the total weight of a

bale or package of bolts of cloth is due to that of the boards which are contained within the said bolts.

The aim of my invention is to provide an improved cloth-board or bolt-board which shall be stronger than the form of board now in use, also free from liability to warp, split, and crack, or to break in consequence of handling or during the winding of the cloth thereupon, lighter than the said form now in use, and costing less than the latter.

The invention consists, accordingly, in the novel and improved cloth-board or bolt-board, which I now will proceed to describe with reference to the accompanying drawings, in which I have illustrated the same.

In the drawings, Figure 1 shows in perspective a cloth-board or bolt-board embodying the invention. Fig. 2 is a view thereof in section along the line 2 2 of Fig. 1, looking in the direction that is indicated by the arrows adjacent to the ends of the said line.

As shown in the drawings, my cloth-board is made in skeleton form of thin strips of suitable material, preferably wood, it comprising, essentially, side rails, end pieces, and one or more intermediate bracing-strips. Each side rail is composed of two strips 1 1, receiving between them the corresponding ends of the end pieces 2 2, and intermediate bracing strip or strips 3 3. The said strips 1 1 are secured in preferred manner to the opposite surfaces of the end pieces and bracing-strips—as, for instance, by means of glue, or of nails, wire, or staples, or of glue and nails or the like combined. The described construction renders the side rails and, in fact, the board in its entirety strong and stiff. The exposed edges 4 4 of the strips 1 1 are beveled off in order that there may be no sharp and obtrusive angles to crease and mark the cloth, and so are also the ends 5 5 of the said strips in order to give a better finish and by way of precaution against injury to the edges of the cloth.

A cloth-board or bolt-board constructed in the manner described and shown is very stiff and strong in proportion to the material employed and much more so in proportion than the ordinary board. It is not liable to warp

out of true. It will not crack, and it has very little tendency to split or splinter. It is exceedingly light, and hence its use lessens greatly the total weight of a bale or package
5 of bolts of cloth and the cost of transportation. Its cost is less, inasmuch as it does not contain so much stock as the ordinary board and inasmuch, moreover, as it facilitates economy through the use of material in less
10 expensive form and the utilization of what otherwise would constitute waste stock.

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

15 The improved skeleton cloth-board or bolt-

board comprising the side rails, end pieces, and intermediate bracing strip or strips, the various parts all being composed of thin strips of material, and each side rail consisting of the two strips receiving between them the
20 ends of the end pieces and bracing strip or strips and being secured thereto, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.
25

JOHN C. MURPHY.

Witnesses:

HENRY J. NICHOLS,

JOHN H. WALLER.