(No Model.)

W. J. PIERPONT.

STRAP FOR PACKING BOXES.

No. 409,499. Patented Aug. 20, 1889.

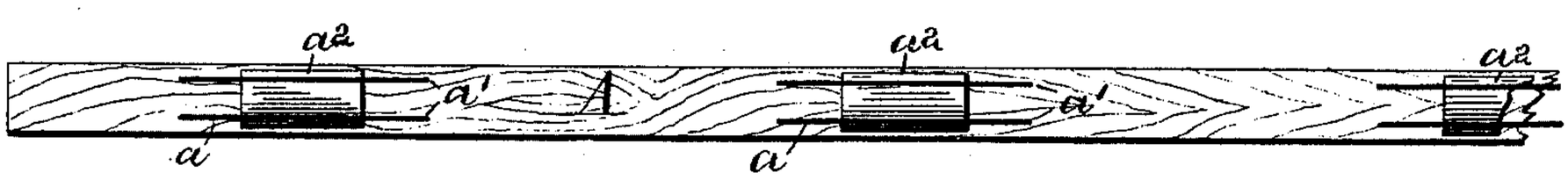

Fig. 1.

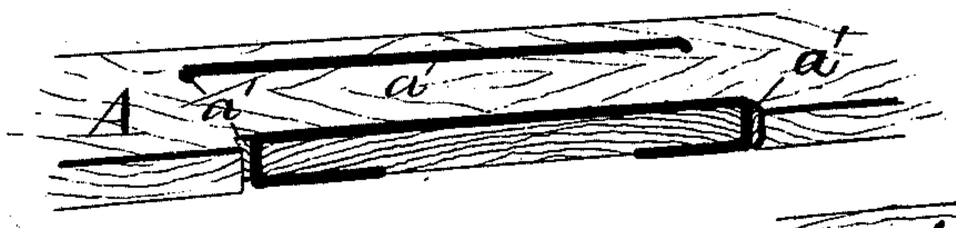

Fig. 2.

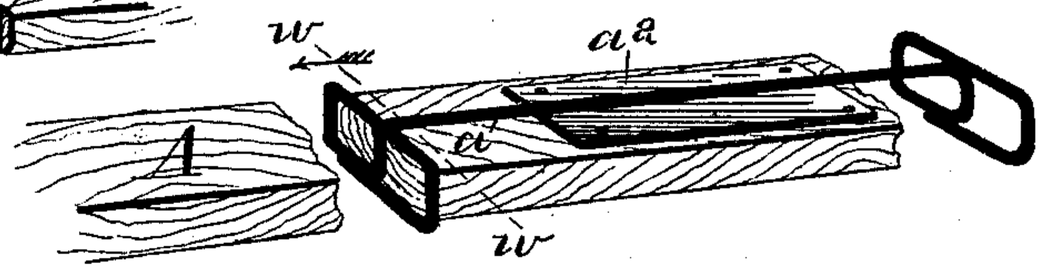

Fig. 3.

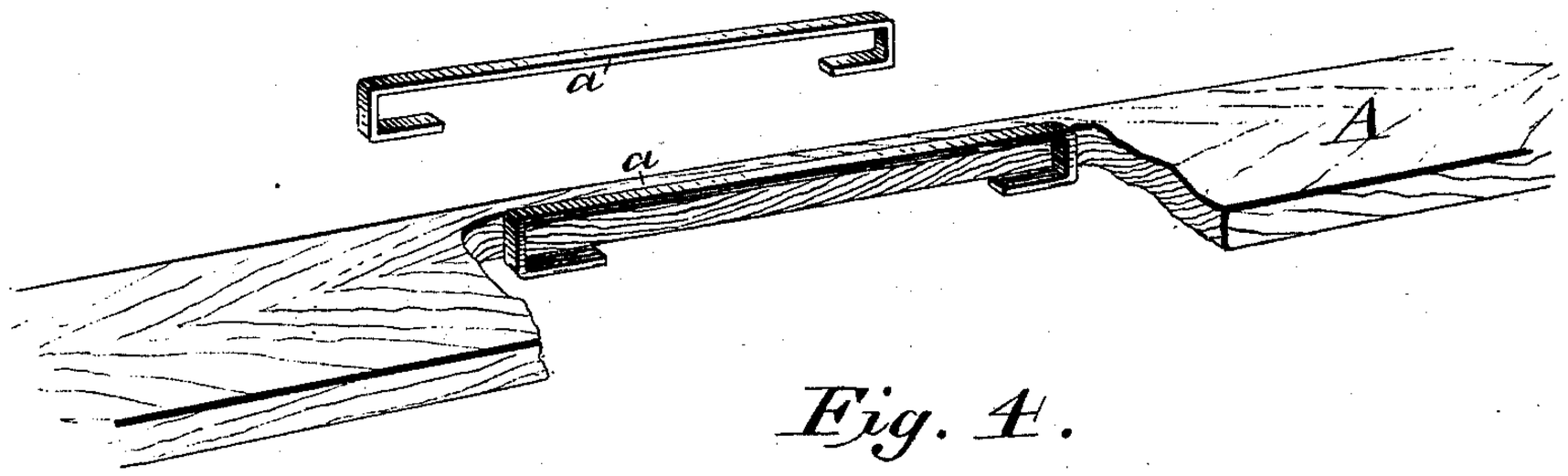

Fig. 4.

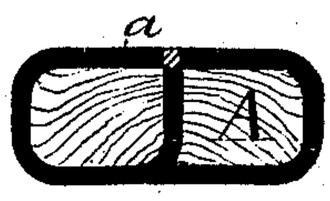

Fig. 5.

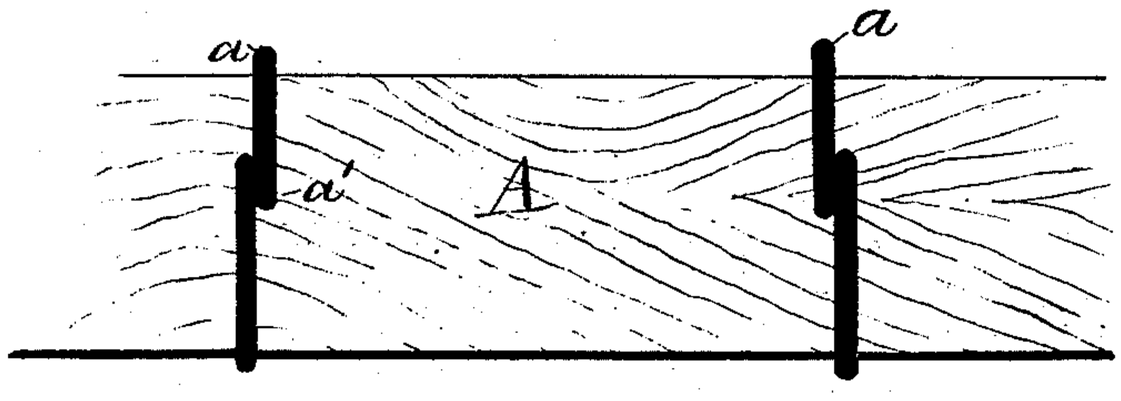

Fig. 6.

Witnesses.
Arthur Ashley.
James F. Duhamel.

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Wallace J Pierpont
per
F. F. Ashley Atty.

UNITED STATES PATENT OFFICE.

WALLACE J. PIERPONT, OF GALESBURG, ILLINOIS.

STRAP FOR PACKING-BOXES.

SPECIFICATION forming part of Letters Patent No. 409,499, dated August 20, 1889.

Application filed June 22, 1889. Serial No. 315,276. (No model.)

To all whom it may concern:

Be it known that I, WALLACE J. PIERPONT, a citizen of the United States, residing in Galesburg, in the county of Knox, in the State of Illinois, have invented a new and useful Strap for Packing-Boxes, of which the following is a description.

The invention relates to an improved securing strap or band for application to packing and shipping boxes for the transportation of merchandise or other goods, the object being to provide, at small expense, a strap which shall be strong and durable, the parts thereof which are subjected to greatest wear and strain being specially adapted to resist the same.

The invention consists in a strap or band, of wood or other analogous flexible or semi-flexible material, which is provided at certain intervals with exterior metallic strengthening-pieces, the intervals being preferably of such space that the strengthened and protected portions, when applied to use, will be bent over the corners or angles of the package.

In the drawings, Figure 1 represents a top plan view of a strap in which one form of my invention is shown. Fig. 2 is a perspective view showing the manner in which the strengthening and protecting pieces are applied to the strap under the construction represented in Fig. 1, the metallic strengthening-plate being omitted. Fig. 3 represents a perspective plan view showing a modification of the construction seen in Fig. 1. Fig. 4 is a perspective view showing a modification in the form of the metallic protecting and strengthening pieces. Fig. 5 is a transverse vertical section taken in the line *w w* of Fig. 3, looking in the direction of the arrow. Fig. 6 is a detail bottom plan view of Fig. 3.

The strap A is ordinarily composed of wood, which is sawed or split to the desired dimensions; but it may be of other analogous material, such as vegetable fiber or water-proof paper. At intervals corresponding to the distance between the angles of the box or other package which is to be strapped a section or strip *a*—one or more—composed of metal, is applied, the same being extended along the outer surface of the strap, passed through perforations *a'* therein, and securely fastened by its ends to the body of the strap, either by being forcibly bent at a right angle to the inner surface of the same, or by being bent around itself in any desired or convenient manner.

When the straps are designed for application to packages of inconsiderable weight, the strengthening-piece *a* may be of wire of small size; but when they are to be applied upon heavy packages the strip *a* may be of correspondingly-heavier material, and, if desired, it may be of heavy sheet metal, as seen in Fig. 4, or of coarse wire flattened upon its upper and lower surfaces.

Whether the strengthening-strips be of light material or otherwise, a metallic plate a^2 may be applied beneath them as an additional protection against fracture or abrasion of the strap at the points of greatest exposure to injury.

Under the described construction it is found practicable to employ inexpensive varieties of wood, and a very considerable saving in the cost of material is thus effected.

In practice the perforations in the strap are formed by suitable machinery, by which also the protecting-strips are inserted and secured, the expense of manufacture being thus reduced to the minimum.

It should be understood that I do not restrict myself to a strap which is provided with strengthening and protecting appliances only at points which are coincident with the several angles of the package to which it is to be fitted.

Having thus described my invention, I claim—

1. A binding-strap for boxes or other angular wooden packages, which is composed of wood, and which is provided at intervals upon its exterior surface with metallic protecting and strengthening strips.

2. A binding-strap for boxes, which is composed of wood, and which is provided at intervals upon its outer surface with metallic protecting and strengthening strips, and with a protecting-plate of sheet metal, which is embraced between the protecting-strips and the body of the strap, substantially as and for the purposes set forth.

WALLACE J. PIERPONT.

Witnesses:

JOSIAH BABCOCK,

WM. W. BABCOCK.