

(No Model.)

W. J. PIERPONT.
STRAP FOR PACKING BOXES.

No. 506,337.

Patented Oct. 10, 1893.

Fig. 1.

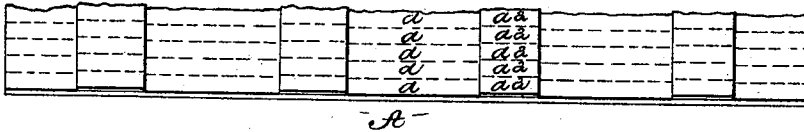


Fig. 2.

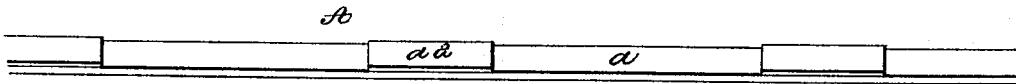


Fig. 3.

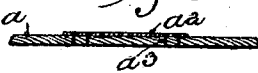
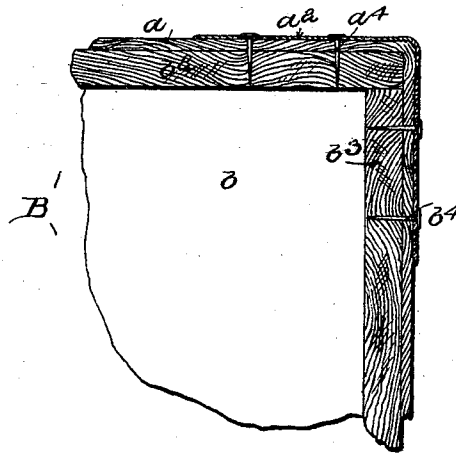


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

WALLACE J. PIERPONT, OF GALESBURG, ILLINOIS.

STRAP FOR PACKING-BOXES

SPECIFICATION forming part of Letters Patent No. 506,337, dated October 10, 1893.

Application filed July 7, 1893. Serial No. 479,830. (No model.)

To all whom it may concern:

Be it known that I, WALLACE J. PIERPONT, a citizen of the United States, and a resident of the city of 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 correct description.

The invention relates generally to an improvement in securing or binding straps, for application to packing-boxes, to prevent loss of or injury to the contents thereof; and it relates particularly to an improvement upon the construction described and claimed in United States Patent No. 409,499, which was issued to me on the 20th day of August, 1889. In the patent referred to, a strap was shown, composed mainly of wood, but which at suitable intervals was strengthened and protected by auxiliary sections of wire, or, if desired, of sections of wire reinforced by coincident underlying sections of sheet-metal; and provision was made also, for making the described wire protection continuous, when desired.

Straps of the described construction have been employed successfully and satisfactorily, for the accomplishment of the purposes for which they were designed; but I have discovered, upon experiment, that for the protection of small boxes, or of boxes of considerable size and inconsiderable weight, a strap which is composed of wood which is not of the finest or the strongest quality, may be employed, if protected at its points of greatest exposure, by a reinforce which consists of a strip of "duck," or other strong woven fabric, or other analogous material, which is suitably secured to and made practically integral with the body of the strap.

In producing the strap, a veneer-cutter is first employed, the strips as turned out being preferably of a width of about four feet, and of a length corresponding to the dimensions of the boxes to which they are to be applied. Sections of canvas are then attached, at desired intervals, to the strips of veneer, by means of an insoluble cement; and a slicing-machine is then employed to divide the broad veneer-like strip, thus protected, into completed straps, of the desired width. For boxes for oranges, which are of a uniform diameter of twelve inches, a strap of a length of fifty

inches is suitable. Instead of cement, tacks, staples, or other analogous metallic or wooden fastening-appliances may be employed for securing the protecting-sections to the body of the strap.

It will be obvious that the use of leather, skins of animals, felt, or other like flexible material, would be within the scope of my invention. Under all ordinary circumstances, however, I prefer to employ canvas, because while it is strong and durable, it is comparatively inexpensive, and it is readily secured, in a permanent manner, to the body of the strap. It has been found that even when the wooden body of the strap has been broken, in bending it at a right angle, the strength of the canvas reinforce has been sufficient to withstand the strain upon the box. It will be apparent that in this, as in my former construction, the protecting surface may, in some instances, be continuous. A strap thus constructed combines, in a marked degree, the advantages of lightness, strength, durability, and inexpensiveness.

In the accompanying drawings, which constitute a part of this specification:—Figure 1 represents a perspective plan view of a thin veneer-like strip or blank of wood, provided with the described flexible strengthening and protecting sections and in readiness to be divided, longitudinally, into straps. Fig. 2 represents a perspective view of a strap, complete, that is, as when one of the longitudinal sections, indicated by dotted lines in Fig. 1, has been severed from the blank. Fig. 3 is a perspective view of the modification, above described, in which the flexible strengthening and protecting sections are united with the wooden body of the strap by means of tacks. Fig. 4 is a detail perspective view, showing a corner of a box to which the described strap is applied, the strap being secured in place by means of nails, or tacks, after the ordinary manner.

In Fig. 1 A designates the blank. In Fig. 4 B is the box, b being the end, b^2 the lid or cover, b^3 one of the sides, and a^4 the nails, by which the strap is made fast to the box.

In Fig. 3 a^3 are the tacks, or equivalent metallic fasteners, sometimes employed instead of cement, in attaching the flexible sections to the body of the strap.

In all the figures, a denotes the wooden body of the strap, and a^2 the flexible protecting-sections which at intervals, corresponding to the corners of the box, are affixed to the outer surface of the strap.

The invention having been thus described, what is claimed is—

1. A securing-strap for boxes, which is composed of a body of wood, which at intervals is provided upon one of its flat surfaces with non-metallic, flexible, strengthening and protecting sections.

2. A securing-strap for boxes, which is composed of a body of wood which at intervals is provided, upon one of its faces, with protecting and strengthening sections which are composed of textile fabric, or analogous material.

3. A securing-strap for boxes which consists of a flat strip of wood, to which at intervals, are affixed strengthening and protecting sections of flexible material;—the sections being united to the body, and made practically integral therewith; substantially as set forth.

4. A securing-strap for boxes, which consists of a body which is composed of wood, and strengthening and protecting sections which are composed of duck, or like fabric or material, and which are united to the body by means of a cement which is insoluble in water.

WALLACE J. PIERPONT.

Witnesses:

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