

J. H. GREENSTREET.
BOX BLANK.
APPLICATION FILED DEC. 6, 1911.

1,032,539.

Patented July 16, 1912.

3 SHEETS-SHEET 1.

Fig. 1.

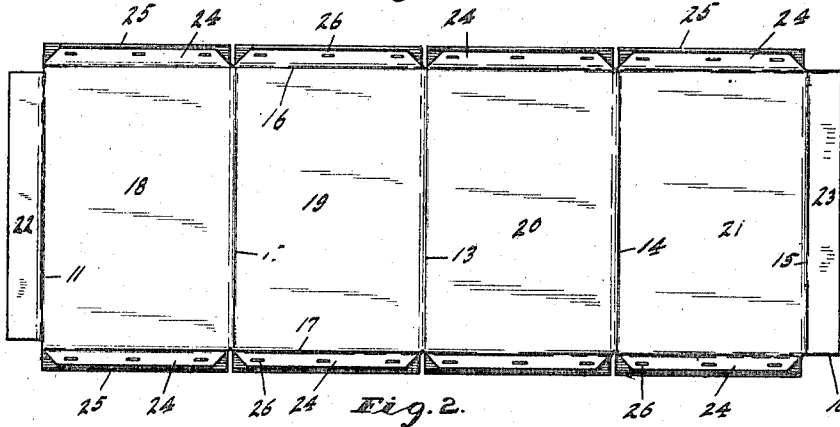


Fig. 2.

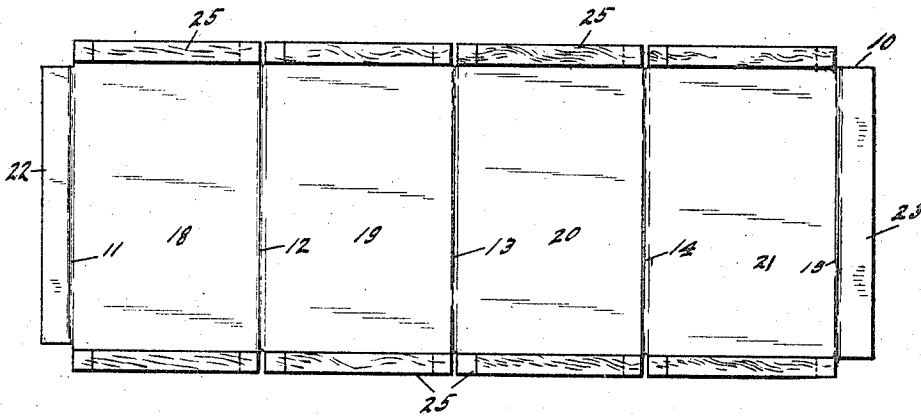
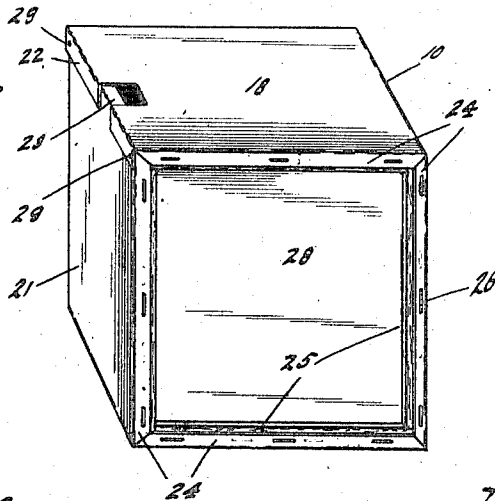


Fig. 3.



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3 SHEETS—SHEET 2.

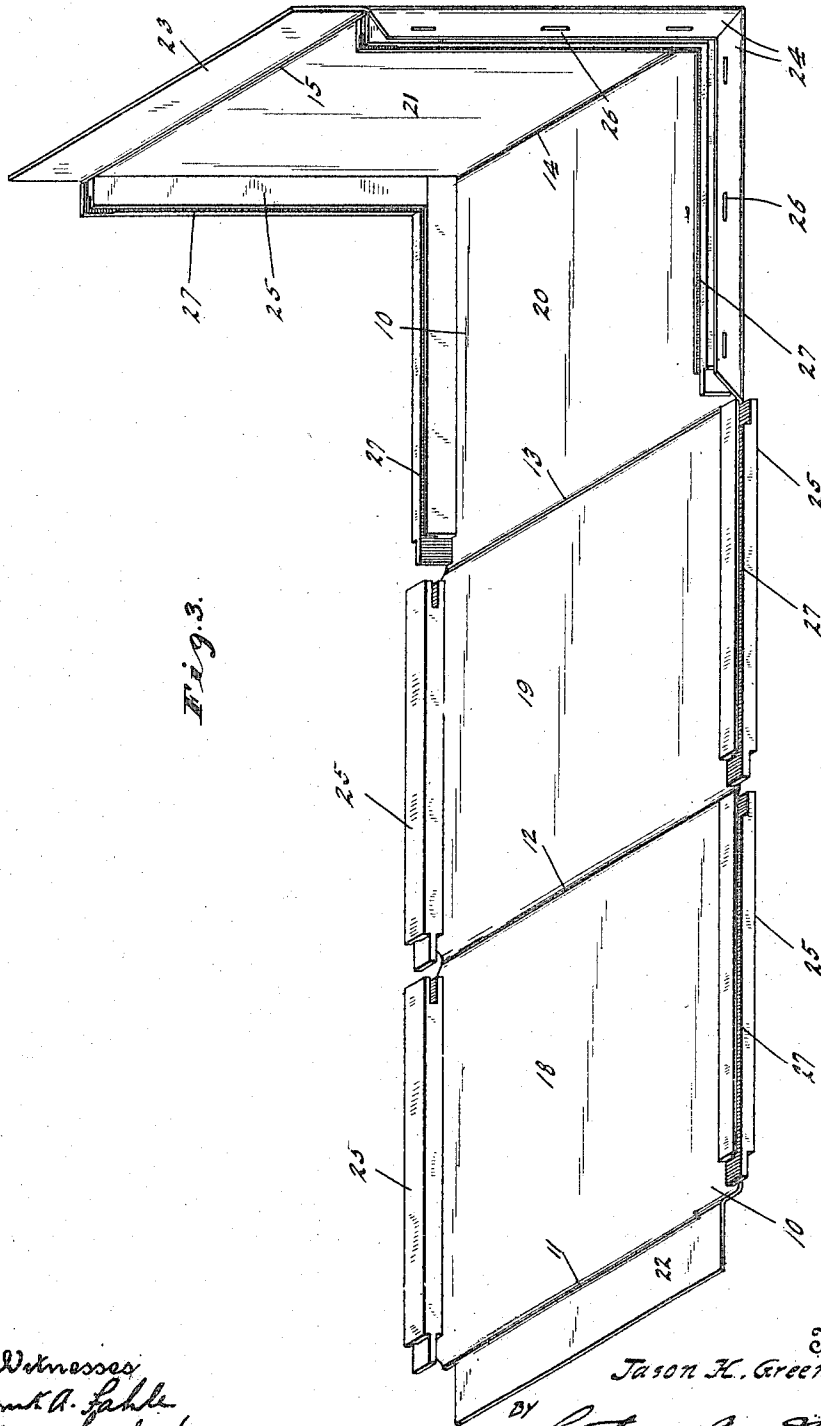


Fig. 3.

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3 SHEETS—SHEET 3.

Fig. 5.

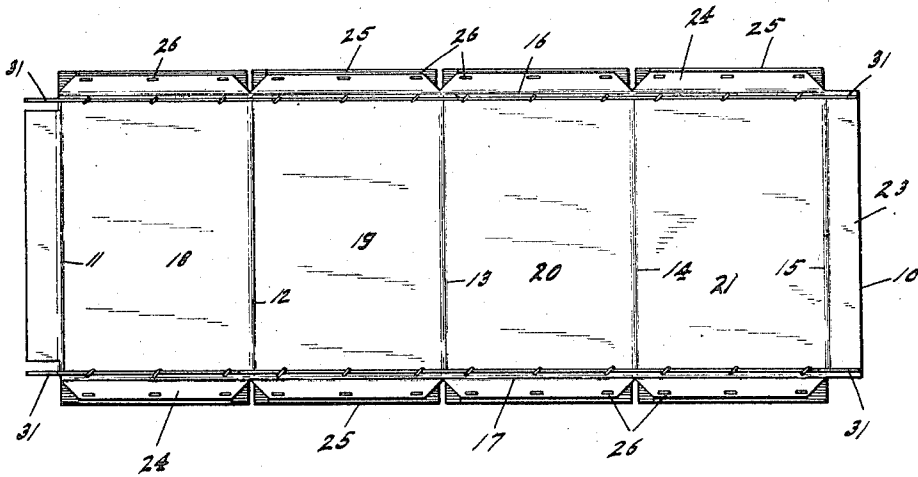
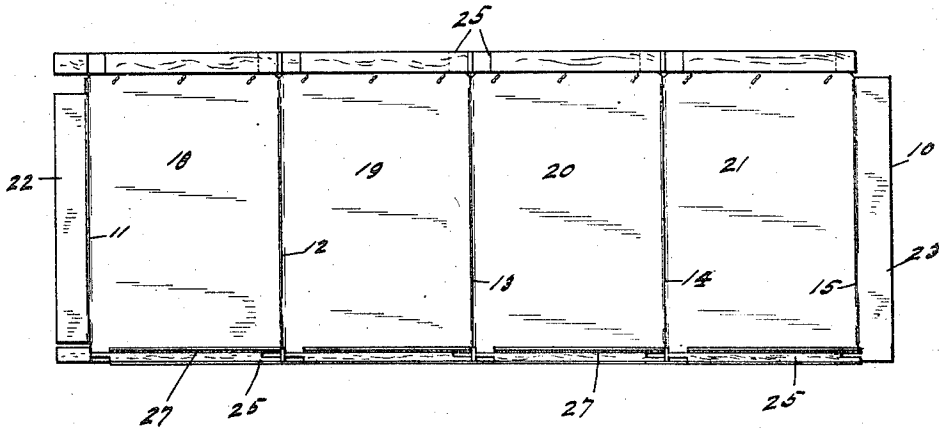


Fig. 6



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UNITED STATES PATENT OFFICE

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BOX-BLANK.

1,032,539.

Specification of Letters Patent.

Patented July 16, 1912.

Application filed December 6, 1911. Serial No. 664,296.

To all whom it may concern:

Be it known that I, JASON H. GREENSTREET, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Box-Blank, of which the following is a specification.

The object of my invention is to produce a box blank of such form that it may be folded into a stiff and substantial packing box.

The accompanying drawings illustrate my invention.

Figure 1 is a plan of the outer face of my box blank; Fig. 2 a plan of the inner face; Fig. 3 a perspective with the blank partially folded into box form; Fig. 4 a perspective of a completed box; Fig. 5 a plan like Fig. 1 but showing binding wires attached to the blank; and Fig. 6 a similar view showing a modified arrangement of cleats.

In the drawings, 10 indicates a sheet of material which forms the main body of the box blank. This sheet is preferably in a single sheet and of such material that it can be flexed not only along the lines 11, 12, 13, 14 and 15 transversely of the length of the blank, but also along the lines 16 and 17 longitudinally of the blank, the sheet being thus divided into as many main sections 18, 19, 20, 21 as there are sides of the proposed box, with end flaps 22 and 23 and two cleat flaps 24 at opposite ends of the main sections.

In practice I make the sheet of a single piece of paper or pulp board, but it will be readily understood that the material may be widely varied and several pieces flexibly joined together in various ways without departing from my invention.

The inner face of each flap 24 is laid upon and secured to the side face of a cleat 25 by any suitable means, such as staples 26 which are commonly in use in this art.

The adjacent ends of the cleats are formed in any suitable manner to abut or overlap when the completed blank is folded. In the form shown in the drawings, each cleat is provided on its inner edge with a groove 27 for the reception of an end plate or board 28.

To fold my improved blank into box form, the cleats 25, with the flaps 24 are first folded, on lines 16 and 17, through an angle of 90°. The main sections of the blank may then be folded on lines 12, 13 and 14 in

the usual manner to bring the ends of the cleats together. Flap 23 will be finally folded over flap 22 and the adjacent portion of section 18 and the box held closed by tacks 29 driven through flap 23 and section 18 into the underlying cleat.

If desired, a wire bound box may be produced by applying binding wires 31 to the sheet material inside of lines 16 and 17 but preferably close enough thereto to overlie the cleats when the cleats are swung to their final edgewise position under the sheet.

If desired, the cleats, at the time of attachment to the sheet, and during shipment in blank form, may have their ends so formed as to abut, as shown in Fig. 6. With this form of cleats, the sheet cannot be collapsed along the lines 12, 13 and 14 during shipment, and the cleat ends require further forming before the blank can be folded into box form.

I claim as my invention:

1. A box blank comprising a plurality of main body sections each having foldable end flaps, and cleats attached sidewise to said end flaps and foldable with the end flaps to a position edgewise beneath the main sections.

2. A box blank comprising a plurality of main body sections each having foldable end flaps, cleats attached sidewise to said end flaps and foldable with the end flaps to a position edgewise beneath the main sections, and binding wires secured to the main sections independent of the cleats.

3. A box blank comprising a plurality of main body sections each having foldable end flaps, cleats attached sidewise to said end flaps and foldable with the end flaps to a position edgewise beneath the main sections, and binding wires secured to the main sections independent of the cleats but overlying the same when the blank is brought to box form.

4. A box blank comprising a plurality of main body sections each having foldable end flaps, cleats secured sidewise to said flaps and foldable with the end flaps to a position edgewise beneath the main sections, and binding wires overlying the cleats when the blank is brought to box form.

5. A box blank comprising a single sheet of body material flexible along lines transversely of the sheet to form a plurality of main sections and flexible longitudinally of

the sheet to form foldable end flaps for each main section, and cleats attached sidewise to said end flaps and foldable with the end flaps to a position edgewise beneath the
5 main sections.

6. A box blank comprising a single sheet of body material flexible along lines transversely of the sheet to form a plurality of main sections and flexible longitudinally of
10 the sheet to form foldable end flaps for each main section, cleats attached sidewise to said end flaps and foldable with the end flaps to a position edgewise beneath the main sec-

tions, and binding wires attached independently to the sheet in position to overlie the
15 cleats when they are brought to edgewise position.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this 13th day of November, A. D. one thou-
20 sand nine hundred and eleven.

JASON H. GREENSTREET. [L. s.]

Witnesses:

ARTHUR M. HOOD,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."