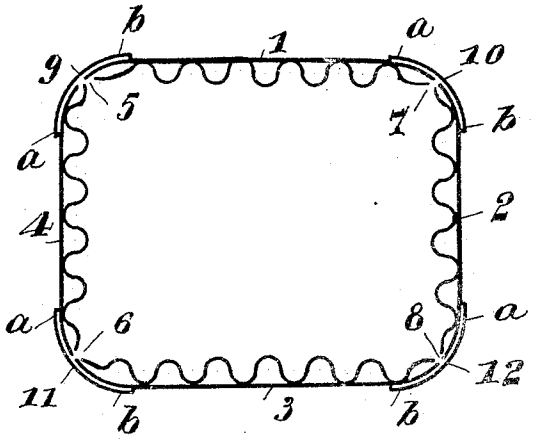
A. BOVY.

PROCESS FOR THE MANUFACTURE OF CORRUGATED CARDBOARD BOXES HAVING ROUNDED CORNERS.

APPLICATION FILED JULY 7, 1920.

1,368,236. **Patented Feb. 15, 1921.**



Inventor
A. Bovy
By H. R. Kerslake
Atty.

UNITED STATES PATENT OFFICE.

ALBERT BOVY, OF BERCHEM-STE-AGATHE, NEAR BRUSSELS, BELGIUM.

PROCESS FOR THE MANUFACTURE OF CORRUGATED-CARDBOARD BOXES HAVING ROUNDED CORNERS.

1,368,236. Specification of Letters Patent. Patented Feb. 15, 1921.

Application filed July 7, 1920. Serial No. 394,580.

To all whom it may concern:

Be it known that I, ALBERT BOVY, a subject of the King of the Belgians, and residing at Berchem-Ste-Agathe, near Brussels, Belgium, have invented a new and useful Process for the Manufacture of Corrugated-Cardboard Boxes Having Rounded Corners; and I do hereby declare the following to be a full, clear, and exact description of the same.

The present invention relates to a process for the manufacture of corrugated cardboard boxes having rounded corners. Heretofore corrugated cardboard boxes have not been in general use because, on the one hand they could not be closed at the joints, and on the other hand because when paper bands have been pasted over the joints, the former easily tear or split because of the sharpness of the angular parts of the boxes.

The process forming the subject matter of the present invention obviates these inconveniences because the angles of the boxes are rounded to receive the paper bands which are pasted over the joints.

With this object in view, a paper strip having an adhesive coating on one of its faces is first pasted onto one of the sides of the box adjacent to the end of said side. After the strip adheres to said side, the strip is pulled toward an adjacent side arranged at right angles to the first side and this causes the edge of the first side to be curved or bent inwardly. Then the adjacent edge of the second side is forced inwardly by the pressure of the hand to curve the same to correspond with the curved edge on the first side, and finally the strip is pasted to the curved edge of the second side.

The pressure thus exerted on the edge already pasted results in the edge acquiring a recurvate form and therefore a rounding of the edge and the pressure exerted by hand on the edge of the adjacent side produces the same effect on this edge.

The result obtained by this process is represented by way of example on the accompanying drawing which shows a transverse section of a corrugated cardboard box.

Referring to the drawing 1, 2, 3, 4 show for example the sides of the box; 5, 6, 7 and 8 the joints; and 9, 10, 11 and 12, the paper bands pasted over the joints. In order to obtain the desired rounding which is slightly exaggerated in the drawing for clearness, the bands 9, 10, 11 and 12 are coated with adhesive on one of their faces and one or the other of the halves *a*, *b* is applied to the adjacent end of the corresponding side of the box either 1, 2, 3 or 4. The free end of the band is then taken and coated with adhesive and while exercising a strong tractive force or pull on the end of the corresponding side not yet coated with adhesive and bending down the latter at the same time by hand.

The same procedure is adopted with regard to the bottom and the cover.

The process hereinbefore explained has been described with reference to corrugated cardboard boxes, but it is obvious that it may also be applied to other types of cardboard boxes.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:

A process for use in manufacturing cardboard boxes consisting in pasting a strip of material to one edge portion of the side of the box, then drawing the strip toward another side of the box arranged at right angles to the first side and thus bending the edge of the first side into curved form, exerting pressure on the adjacent edge of the second side to bend the same inwardly, and pasting the strip to the bended edge of the second side.

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

ALBERT BOVY.

Witnesses:
E. HEYL,
G. Y. ZALWAY.