

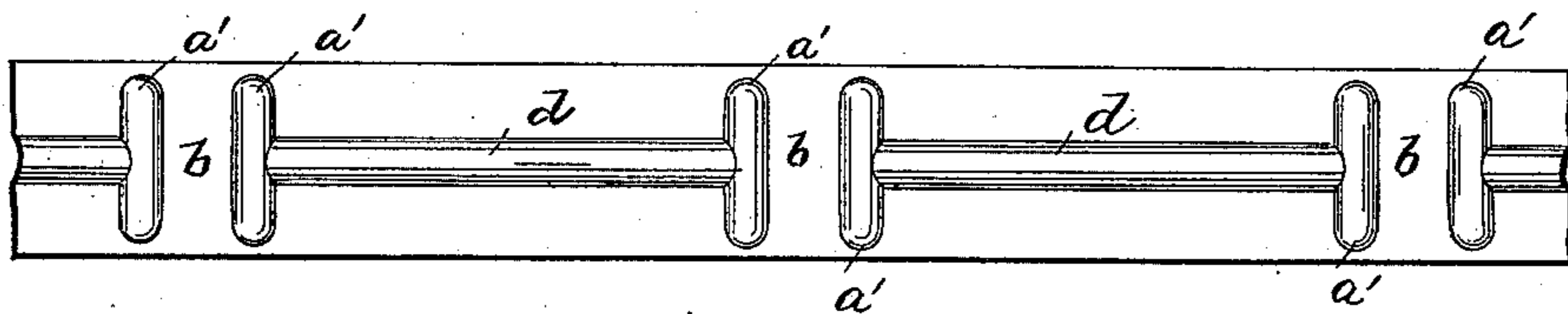
(No Model.)

S. C. CARY.

BOX STRAP.

No. 358,255.

Patented Feb. 22, 1887.



WITNESSES:

A. S. Fitch  
Harry Eickling

INVENTOR

Samuel C. Cary

BY

A. S. Fitch

ATTORNEY

# UNITED STATES PATENT OFFICE.

SPENCER C. CARY, OF BALDWIN, NEW YORK.

## BOX-STRAP.

SPECIFICATION forming part of Letters Patent No. 358,255, dated February 22, 1887.

Application filed October 15, 1886. Serial No. 216,306. (No model.)

*To all whom it may concern:*

Be it known that I, SPENCER C. CARY, of Baldwin, county of Queens, State of New York, a citizen of the United States, have  
5 invented an Improved Metal Box-Strap for Packing-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

10 My invention relates to a metal box-strap for use in binding the exterior of packing-boxes; and my invention consists in such a box-strap composed of a metal band provided with stiffening-ridges extending laterally of  
15 the band, between its opposite side edges, and with stiffening-ridges extending longitudinally of the strap, as and for the purpose hereinafter set forth, and as more at length recited in the claims.

20 Metal box-straps have been heretofore made by me with corrugations or ridges or beads longitudinal of the strap and along its edges, for the purpose of stiffening the strap longitudinally and so preventing the buckling or curv-  
25 ing upward of the strap between the fastening-nail heads when the strap is applied to the exterior of a box or case and the nails are driven home; but I have found that when a box-strap thus formed is applied to a box or  
30 case and the fastening nails are driven through the central thin web of the strap, or when the nail-head is driven down tightly upon the said web, there is a tendency to bend or depress the strap along the center of the web, and  
35 consequently to elevate or tilt upward the edges of the strap from its central line outward to its edges on each side, thus carrying the edges away from the face of the box or case. In this event the central portion only  
40 of the strap is in actual contact with the face of the box, the greater portion of the under surface of the strap—namely, the part from the central portion to the edges—being raised out of contact with the box, and thus the ob-  
45 ject of the strap, which is that it shall hug and be in close contact with the box-surface throughout its width along its length, is defeated.

The object of my present invention is to  
50 remedy this defect. To this end I form a

metal box-strap with stiffening ridges, beads, or corrugations extending transversely of the band composing the strap, between the side edges thereof, and so arranged relatively to each other that a flat and thin web of metal is  
55 between the corrugations, adapted to receive the entire head of the fastening-nails, whereby the nail-heads, when driven down upon the said flat web portion of the strap, will rest wholly thereon between adjacent corrugations,  
60 and be guarded and inclosed thereby, in connection with longitudinal stiffening-ridges, as hereinafter particularly described.

The single figure in the drawing represents in plan a box-strap containing my invention. 65

In carrying out my invention I take a flat metal band of suitable width, and by passing it between suitably-formed rolls, or in any other suitable manner, I form in or upon the band corrugations, ribs, or beads, which ex-  
70 tend transversely of the band at intervals between its side edges, and also a flat and preferably thin web of metal between the successive corrugations, of such extent that each such web is adapted to receive and have rest  
75 wholly upon it, between the contiguous corrugations, the head of a fastening-nail, together with corrugations or ribs, extending longitudinally of the strap.

In the drawing the transverse ribs or cor-  
80 rugations are shown at *a'* extending across the face of the strap between its side edges, and the face of the strap is left flat at *b*, between the transverse ribs, as shown. At *d* is shown a longitudinal corrugation, which extends  
85 along the strap, and is preferably located between transverse corrugations, arranged in pairs, as shown. I find it preferable to arrange the corrugations as shown and de-  
90 scribed, for the reason that the fastening-nails may be conveniently driven between the members of each pair of transverse corrugations, said corrugations acting to protect the seated nail-heads, while the longitudinal corrugations  
95 operate to prevent the strap from "buckling" when placed on the box.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A box-strap composed of a metal band 100

provided with stiffening-ridges extending laterally of the band, between the side edges thereof, and stiffening-ridges extending longitudinally of the band, substantially as and for  
5 the purpose described.

2. A box-strap composed of a metal band provided with stiffening-ridges extending laterally of the band, in pairs, between the side

edges thereof, and stiffening-ridges extending longitudinally of the band, between the said 10 pairs of lateral ridges, substantially as and for the purpose set forth.

SPENCER C. CARY.

Witnesses:

A. G. N. VERMILYA,  
A. S. FITCH.