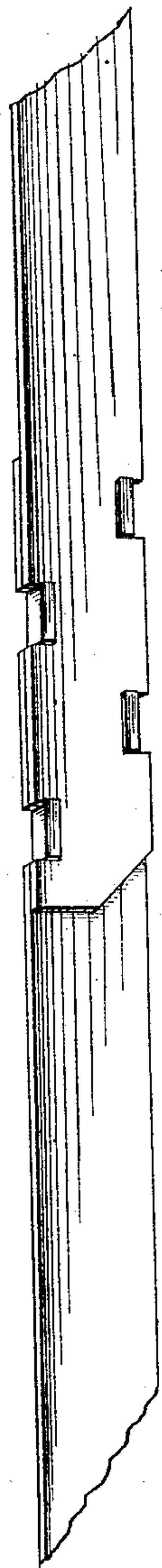


G. N. OSGOOD.

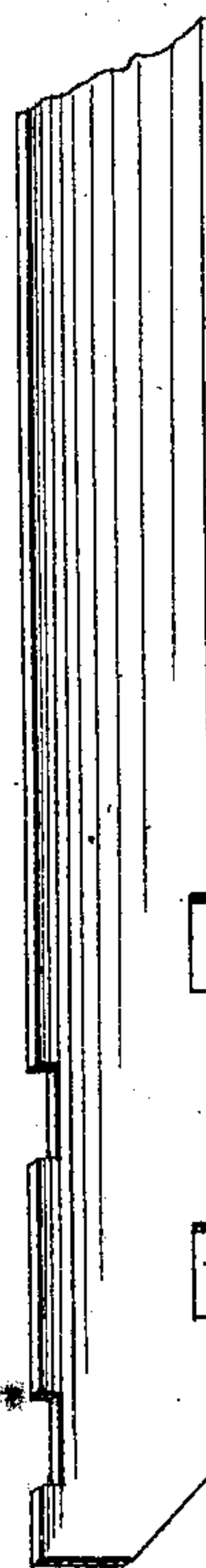
Bale-Tie.

No. 160,345.

Patented March 2, 1875.



*Fig1.*



*Fig2.*

*Witnesses:*

*G. Osgood*  
*D. S. Chapin*

*Inventor:*

*Galen V. Osgood*

# UNITED STATES PATENT OFFICE.

GALEN N. OSGOOD, OF SAVANNAH, GEORGIA.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **160,345**, dated March 2, 1875; application filed July 17, 1874.

*To all whom it may concern:*

Be it known that I, GALEN N. OSGOOD, of Savannah, county of Chatham and State of Georgia, have invented a new and useful Improvement in a Tie for Fastening together Metallic Hoops or Bands for Baling and Hooping purposes; and that the following is a full and clear description of the same, in which—

Figure 1 is a perspective view, showing its construction; Fig. 2, another view, showing an end cut before being put together.

In order to show how to make and use my invention, I first take the hoop-iron, pass it around the bale, after compressing, then take a suitably-devised instrument, take a firm gripe over the edges when lapped, and by a lever or other device cut and bend over at the same time one or more half mortises and tenons on either edge obliquely to give strength, bend them around each other far enough to hold them firmly, as shown in Fig. 1; thus making a strong, safe, and smooth tie, and an immense saving of iron.

Another way is: Cut the mortises or notches in each edge of one end of the band before it is put on, as shown in Fig. 2; then pass it

around the bale, cut and bend in the tenons, as above, making it stronger, as but one thickness is wrapped.

This tie can be used to connect all hoops or bands (metallic) for any purpose for which hoops or bands (metallic) may be used.

The advantages of this tie or connection are, viz: It secures the ends firmly together; it is done quickly and leaves no projecting surface; it saves the weight of buckle or ordinary tie; it leaves no slack to be taken up by expansion of the bale.

Having thus described my invention, what I desire to secure by Letters Patent, and claim, is—

A cotton-bale tie of hoop metal, one end having half-mortises cut into its edges to coincide with cuts made into the edges of the other end, forming tenons to be bent around through the half-mortises when lapped, locking them together, substantially as herein set forth.

GALEN N. OSGOOD.

Witnesses:

L. S. BEAVER,  
E. OSGOOD.