

W. H. MURPHY.

JOINTS FOR PAPER-BARRELS.

No. 175,138.

Patented March 21, 1876.

Fig. 1.

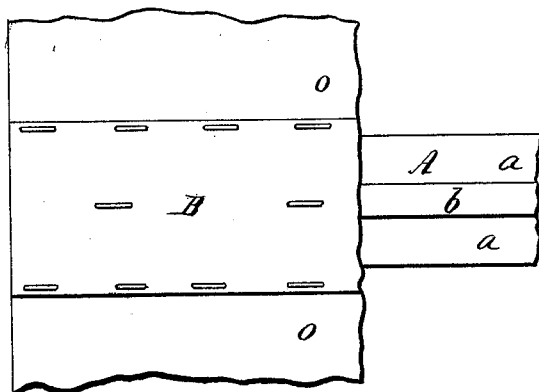


Fig. 2.

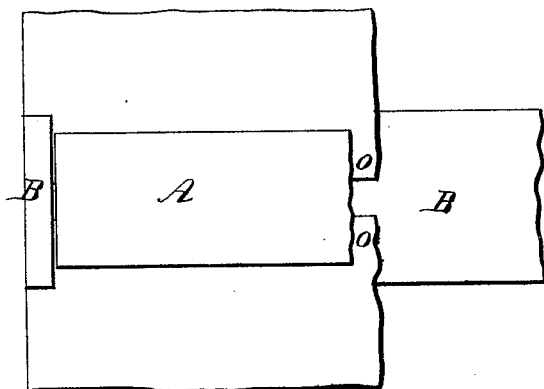
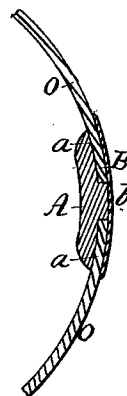


Fig. 3.



Witnesses.

Johnston Miller  
R. W. Smith

Inventor

W. H. Murphy

# UNITED STATES PATENT OFFICE.

WILLIAM H. MURPHY, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHNSTON MILLER, OF SAME PLACE.

## IMPROVEMENT IN JOINTS FOR PAPER BARRELS.

Specification forming part of Letters Patent No. **175,138**, dated March 21, 1876; application filed January 8, 1876.

*To all whom it may concern :*

Be it known that I, WILLIAM H. MURPHY, of Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improved Joint for Paper Packages, which I have fully described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a perspective view of the same on the front side; Fig. 2 a perspective view of the same on the inner side, and Fig. 3 a transverse sectional view.

In Figs. 1 and 2 a portion of the completed joint is represented as broken out, in order to better show the manner in which the parts are put together.

The object of my invention is to make a strong joint in paper packages made with one or more joints, and, at the same time, dispense entirely with any form of dovetailing.

In making this joint, I first take the piece of wood A, or it may be of metal, made in the form or shape shown in the drawings, and a little shorter than the length of the proposed joint, and having two side projections or lips, *a a*, and a central raised portion, *b*, raised above the plane of the lips *a a* just about the thickness of the paper used in the package. I then take a strip of metal, B, iron, tin, or zinc, of about the same width as the piece A, and a little longer than the proposed joint. I then place the edges of the paper *o*, which I simply cut straight, upon the lips *a a* of the piece A, with their edges against the projection *b*. I then place the strip B over the whole, and, nailing through this and the edges of the paper *o* into the piece A, on both sides of the central raised portion *b* and through

the strip B into the part *b* of the piece A, I make a tight and a very strong and durable as well as simple joint; or, in a package made with a bilge, I can make my joint by nailing the strip B to the raised portion of the piece A, and inserting the edges of the paper in the spaces thus formed therefor, when, by simply driving the hoops down, the paper is forced closely into the spaces and thus the joint is made tight and the strength and durability are, if anything, greater than when made in the other way.

After thus forming the joint the ends of the strip B may be cut off flush with the ends of the package, or may be bent tightly over the ends of the package and down a little way on the inside.

I make the piece A a little shorter than the proposed joint in order that, when the joint is formed, the upper and lower ends will be out of the way for the insertion of the heads; and it may be made of such length as to make a slight shoulder for the head to rest upon and to prevent its being forced too far into the package. I thus make a very simple and, at the same time, excellent joint for paper packages.

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

The combination of the piece A, having the lips *a a* and the raised portion *b*, the strip B, and the paper *o*, made and operated substantially as above described.

W. H. MURPHY.

Witnesses:

JOHNSTON MILLER,  
C. W. SMITH.