

J. R. VAN VECHTEN.

PAPER BOX.

No. 185,598.

Patented Dec. 19, 1876.

Fig. 1.

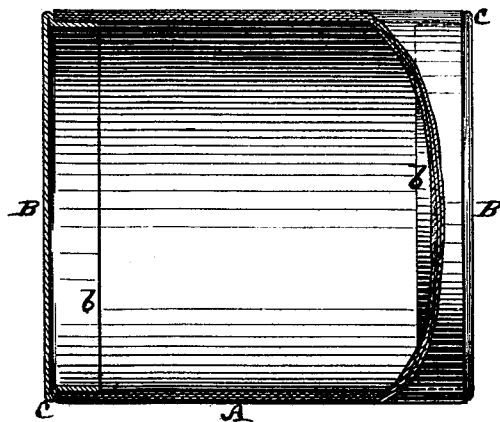


Fig. 2.

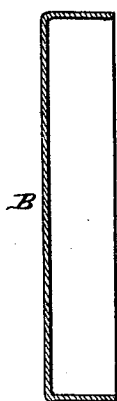


Fig. 3.

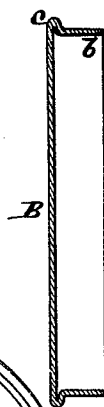
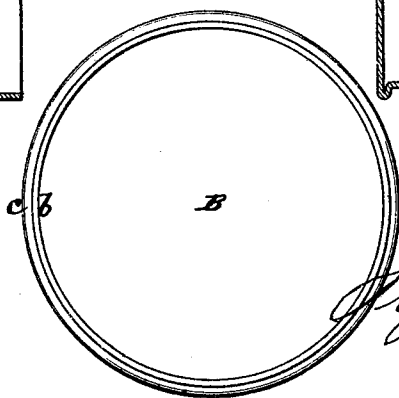


Fig. 4.



Witnesses

John Becker
Fred. Haynes

J. R. Van Vechten
By his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

JUNIUS R. VAN VECHTEN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PAPER BOXES.

Specification forming part of Letters Patent No. **185,598**, dated December 19, 1876; application filed September 19, 1876.

To all whom it may concern:

Be it known that I, JUNIUS R. VAN VECHTEN, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Paper Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms part of this specification.

This invention consists in a novel construction of the heads and mode of fitting the same within the shell or sides of the box, whereby I am enabled to produce not only a very neat paper or pasteboard box, but also a very strong one, and the heads are prevented from being forced into the shell or sides of the box. Said boxes may either be of a cylindrical form or of a polygonal shape in their transverse section, and may, if desired, be used as blocks for winding silk and other ribbon on.

Figure 1 represents a mainly sectional longitudinal view of a paper box of a cylindrical form, constructed in accordance with my invention. Fig. 2 is a transverse section of one of the heads of said box in the course of its construction; Fig. 3, a similar section of said head when finished, and Fig. 4 an interior face view thereof.

A is a cylindrical shell or body, having open ends, and made of pasteboard or paper, in the ordinary or any suitable manner of making tubular pasteboard or paper bodies of various kinds. B B are the heads of said box, also made of pasteboard or paper. These heads are of a cup shape or construction, being formed with an inner rim, *b*, and an outer flange, *c*, and may be formed by first cupping a disk of pasteboard or paper into the form shown in Fig. 2, and afterward further shaping it and throwing out the flange, as shown in Fig. 3. This may be done by substantially similar means as are now employed for making the flanged heads of metallic cartridges. The rimmed or cupped portion *b* of either head should be of a size to fit snugly within the shell or sides of the box, and the flanges *c* of a size to abut against the ends of said shell.

Both heads may be permanently secured to their places by glue or cement, within and

against the ends of the shell, after the box has been packed with its contents, and when it is required to hermetically seal the box for preserving purposes; or only one of said heads may be thus secured, and the other head made removable; or both heads may be removable, if desired; or, again, one of said heads only may be removable, and made to form a lid by constructing its rim of the same diameter, or thereabout, as the main body or shell of the box, and fitting and cementing said rim within a short paper shell or band, of a suitable size to fit over the main body or shell of the box, and which, when in place, virtually forms a portion of the main body or shell.

The construction and mode of fitting, herein described, of the pasteboard or paper heads within the shell or sides of the box, both body and lid, or either, with the flange of the head abutting against the ends of the shell, insures not only a neatness of finish to the box, but materially stiffens the shell, and makes it impossible for the heads to be forced into the shell.

By forming the cupped portion of the heads so as to fit within the cylinder, and their flanges of a width equal only to the thickness of the wall of the shell, I am enabled to produce a paper or pasteboard box so that its exterior surface, including the edge of the flanges of the cup-shaped heads, will be perfectly flush with each other—a great desideratum in a box, especially where designed that a number of the same are to be supplied with labels over their entire surface, or silk or ribbons wound upon the same.

I claim—

In combination with the paper or pasteboard shell forming the body of the box, the paper or pasteboard heads B B, constructed with the rims *b b*, to fit within the shell, and with the flanges *c c*, to abut against the top edge of the shell, said flange projecting outwardly a distance equal to the width of the shell, so that its edge will be flush with the outside of said shell, as herein shown, and for the purpose specified.

JUNIUS R. VAN VECHTEN.

Witnesses:

BENJAMIN W. HOFFMAN,
FRED. HAYNES.