C. O. BECK.

Drawing or Roving Can.

No. 221,500. Patented Nov. 11, 1879.

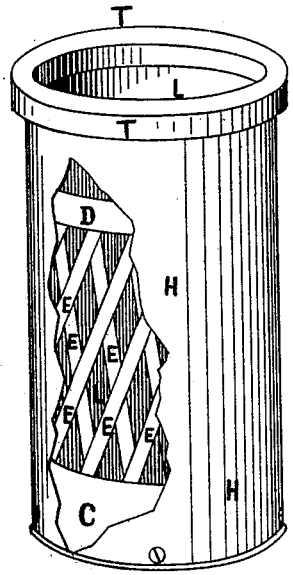

Fig. 1.

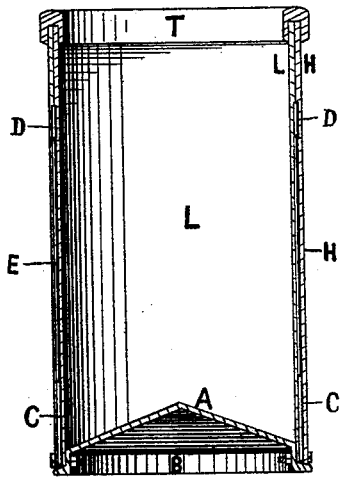

Fig. 2.

Witnesses:

H. S. Talbot

W. R. Marble

Inventor:

Charles O. Beck,

By Sylvenus Walker

Atty.

UNITED STATES PATENT OFFICE.

CHARLES O. BECK, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN DRAWING OR ROVING CANS.

Specification forming part of Letters Patent No. **221,500**, dated November 11, 1879; application filed April 14, 1879.

To all whom it may concern:

Be it known that I, CHARLES O. BECK, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Drawing or Roving Cans, for use in the manufacture of yarns, of which the following is a specification.

The object of my invention is to provide a light, strong, and durable roving-can, which shall better withstand the rough usage incident thereto when in use, and when partially worn out certain parts may be easily renewed or substituted without much trouble or expense, thereby rendering the same as good as new; and it consists in providing a skeleton-frame of metal, and covering the same externally and internally with paper or other desired material, so as to form the upright sides or body of the can, the bottom and hoop being connected thereto by screw-bolts or otherwise, the whole being constructed as hereinafter more fully described and set forth.

Figure 1 is a perspective view of my invention, a portion of the paper covering being broken away to show the interior metallic skeleton-frame. Fig. 2 is a vertical longitudinal section of the same.

A represents the bottom of the can, formed of sheet metal and attached to an iron hoop, B, as usual. This hoop B is provided with holes, through which small screw-bolts are passed, and also through corresponding holes formed through the sheet-metal cylindric portion C of the body of the can, to which a series of diagonal sheet-metal strips, E, are secured at their lower ends by means of soldering, riveting, or otherwise, their upper ends being secured in like manner to the metal ring or hoop D. These sheet-metal strips E may be arranged diagonally, crossing each other, as shown in Fig. 1; or a series of vertical strips may be applied in a similar manner. Then horizontal rings, bands, or hoops may be arranged at intervals, crossing the said strips at right angles, and secured thereto in any suitable manner, so as to form a sheet-metal skeleton, as before.

The sheet-metal frame or skeleton thus constructed I cover externally with paper, H, by rolling or winding several layers around the same, which, being pasted or glued previous to application, unite together, so as to form a light and rigid cylinder or body of the can, the paper extending above the ring or hoop D, as shown. I then line the interior with paper, L, allowing it to extend upward above the ring or hoop the same height as the external paper covering, being pasted or secured therein in such manner as desired. These two papers H and L may be united together above the hoop D by paste or otherwise; and their upper edges, forming the mouth of the can, I provide with a flexible band or ring of rubber, T, which is provided with an annular groove or channel, to receive the edges of the papers H L, which may be secured therein by paste, glue, or otherwise, so as to form a flexible mouth or top of the can, which will retain its cylindric shape if jammed or pressed inwardly by accident, and will spring or return to its former position, and prevent the paper mouth of the can from being injured.

The lower portion of this class of cans, being subjected to rougher usage, I form about one foot in height of sheet metal, from the bottom up, as shown, and indicated by the letter C; then connect thereto a light skeleton-frame, of any suitable material, which may be covered externally and internally, so as to form a light, strong, and durable can.

Having thus described my invention, what I claim is—

The improved roving-can as constructed, consisting of the skeleton-frame E C D, provided with the external covering, H, and internal covering or lining, L, and having the flexible mouth guard or band T, substantially in the manner described, as and for the purposes set forth.

CHARLES O. BECK.

Witnesses:
SYLVENUS WALKER,
W. R. MARBLE.