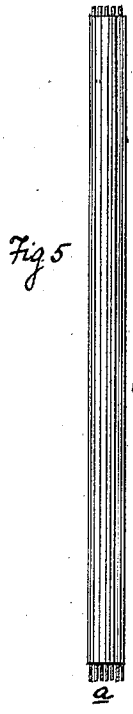
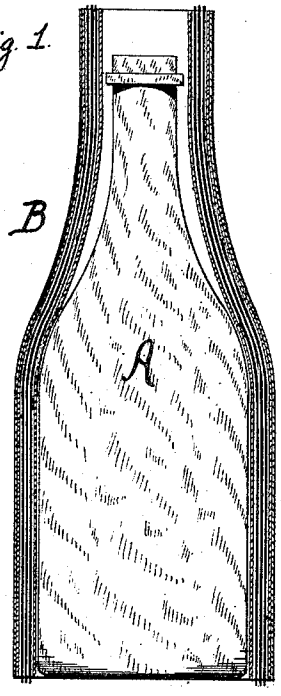
(No Model.)

O. LONG.

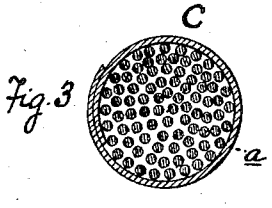
MATERIAL FOR PACKING BOTTLES.

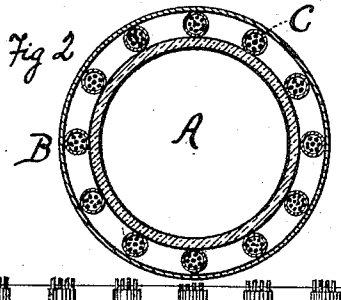
No. 301,250. Patented July 1, 1884.

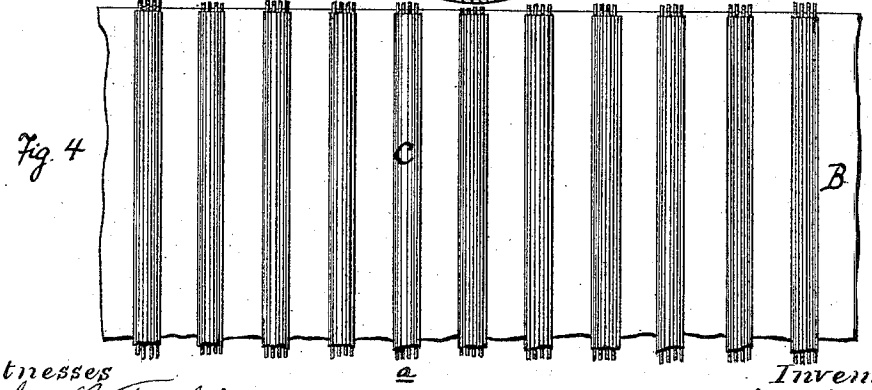












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UNITED STATES PATENT OFFICE.

OLIVER LONG, OF BROOKLYN, ASSIGNOR OF ONE-HALF TO CHARLES SCHLUTER AND CHARLES FORSTER, BOTH OF NEW YORK, N. Y.

MATERIAL FOR PACKING BOTTLES.

SPECIFICATION forming part of Letters Patent No. 301,250, dated July 1, 1884.

Application filed December 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, OLIVER LONG, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Material for Packing Bottles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

My invention consists in the formation of a packing material for bottles by attaching to single sheets of paper tubes of paper filled with straw or hay, the tubes being placed in rows, the whole forming a wrapper, which is placed around the bottles, and perfectly protects them from contact with each other and with the case in which they are packed. The tubes containing the hay or straw may be made by spirally winding a strip of paper around the stalks of the hay or straw, or by simply enveloping the hay or straw with a single wrapper.

In the drawings, Figure 1 represents a vertical sectional view of a bottle, A, incased in the packing material. Fig. 2 is a horizontal section of the same bottle, A, across its widest part, showing the sheet of paper B, to which the tubes C are attached, the inner edge of the tubes being tangent to the exterior surface of the bottle, and the outer edge being attached to the outside paper wrapper B. Fig. 3 is an enlarged sectional view of one of the tubes C, showing the stalks of hay or straw at *a*. Fig. 4 is a plan view of the packing material when unfolded, showing the tubes C filled with hay or straw, *a*, and attached to the outside wrapper B. Fig. 5 shows the tubes made by simply enveloping the stalks of hay or straw in a single paper wrapper, and Fig. 6 shows the tubes made by winding a strip of paper diagonally around the stalks of hay or straw.

By the use of my invention the bottle is perfectly protected along the sides and lines of contact with adjacent surfaces. The packing material is light, and is sufficiently stiff to retain its form. It is very clean, there being no litter or dirt resulting from its use, and it is little affected by moisture. When used in the shape of cylindrical envelopes, as shown in the drawings, a great saving is effected, as the envelopes can be repeatedly used, and the materials are cheap.

Having thus described my invention, what I claim as new is—

As an article of manufacture, a packing material for bottles, composed of tubes of paper filled with hay or straw, which are attached to single sheets of paper, substantially in the manner set forth, and for the purpose specified.

OLIVER LONG.

In presence of—
WM. H. ROSS,
H. R. MULLER.