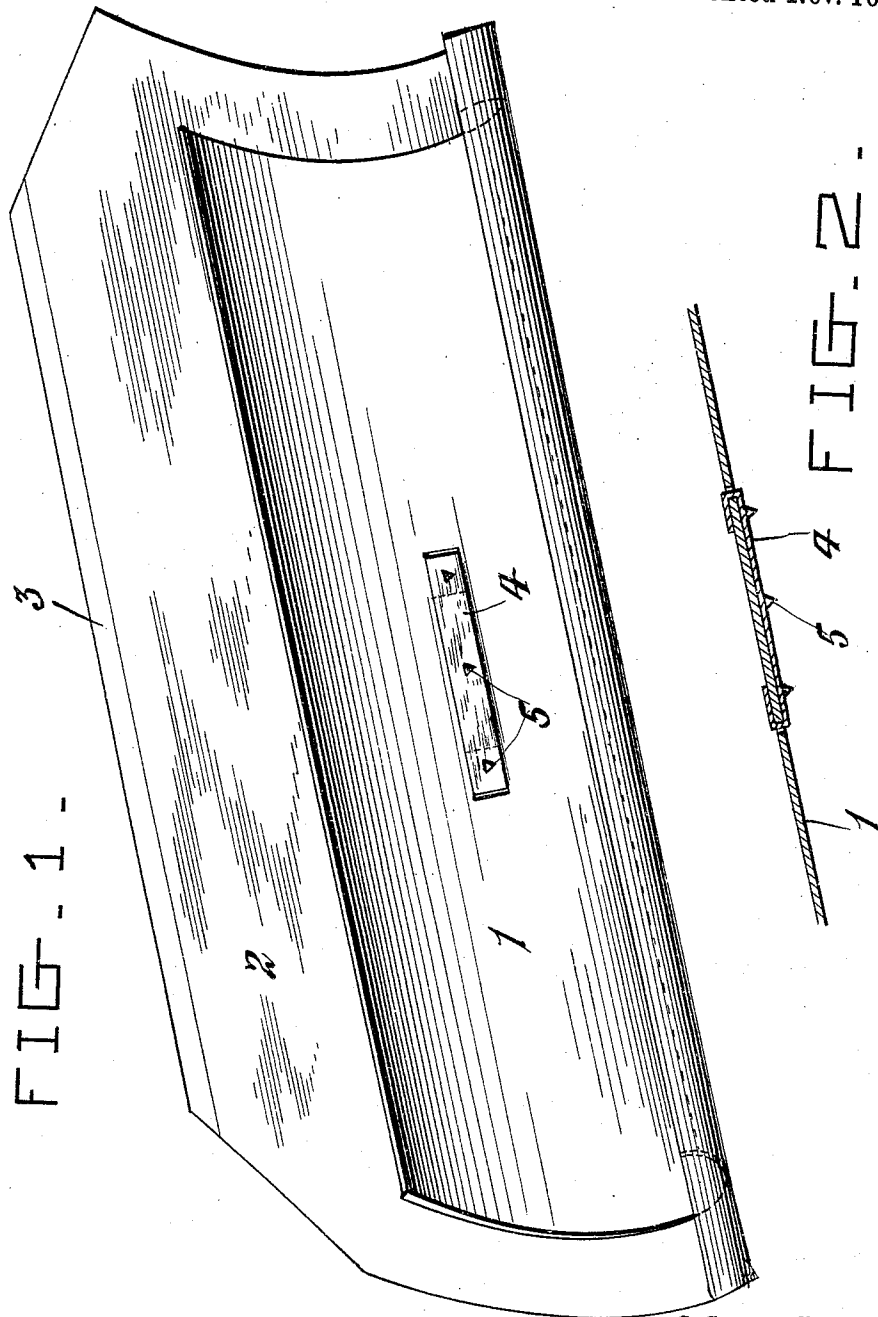


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MAILING TUBE.

APPLICATION FILED SEPT. 23, 1908.

940,146.

Patented Nov. 16, 1909.



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UNITED STATES PATENT OFFICE.

VICTOR GUERTIN, OF MONTREAL, QUEBEC, CANADA.

MAILING-TUBE.

940,146.

Specification of Letters Patent.

Patented Nov. 16, 1909.

Application filed September 23, 1908. Serial No. 454,334.

To all whom it may concern:

Be it known that I, VICTOR GUERTIN, a subject of the King of Great Britain, residing at the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Mailing-Tubes; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention to be hereinafter described relates to mailing tubes, and more particularly to a mailing tube which may be shipped flat in bulk and rolled to various diameters.

As heretofore made, mailing tubes have been manufactured locally only. It has not been possible to ship them to any considerable distances from the points where they are turned out, because their bulk necessitates a very high, and practically prohibitive, freight charge. This is due to the fact that the tubes are manufactured and must be shipped as tubes. Besides this great disadvantage, the tubes as now made are of fixed diameters, which cannot be varied to adapt them for different sizes of rolls. Also, the tubes as now constructed have no adequate means for preventing removal of packages through their ends. It is with an idea to avoid these and other objections, that the present tube has been devised.

In order to more clearly disclose the construction, application and use of the invention, reference should be had to the accompanying drawings forming part of the present application.

Throughout the several views of the drawings, like reference characters designate the same parts.

In the drawings: Figure 1 is an inside perspective view of the tube in unrolled position; and, Fig. 2 is a detail longitudinal section through the gripping member.

Broadly speaking, the tube comprises a flexible sheet of material, such as card-board, leather-board, or the like, adapted to be rolled into tube form, a wrapping sheet attached thereto and provided with a gummed edge by which the tube may be sealed, and a plate or strip adapted to be secured to the inner face of the flexible sheet and provided with gripping teeth adapted to engage and hold an article within the tube.

In manufacturing the tube, a flat, flexible sheet 1 of any suitable material, such as card-board, leather-board, or the like, may be used as a foundation. To one longitudinal edge of this foundation is secured, by pasting or otherwise, an edge of the wrapping sheet 2. The opposite inner edge of this wrapping sheet is gummed, as at 3, so that it may be stuck to the outer face of the roll when the tube has been formed. The sheet 2, should, of course, be somewhat longer than the foundation sheet, and somewhat wider, so that it may be turned in at the open ends of the tube and may extend across the edges of the tube when folded.

In order to prevent removal of the contents of the tube, a gripping plate 4 has been provided. This comprises a simple strip having its two ends turned down so that they may be passed through the approximate center of the foundation sheet and clenched to hold it in position. The plate 4 is provided with sharp projecting points or teeth 5, adapted to engage the article within the tube and securely hold it against withdrawal, as will be readily understood.

In shipping this tube, the foundation and wrapping sheets may be assembled and laid out flat so that they may be handled in mass just as paper sheets. In such case, the gripping plates will be shipped separately in quantity. Or, if desired, the gripping plates may be secured to the foundation sheets and the teeth 5 pressed flat, thus allowing shipment of the complete device in very large quantities and ready for immediate use.

It will be seen that a mailing tube is provided which may be manufactured very cheaply and shipped in great quantities with a minimum freight charge, thus allowing the tubes to be made at one or two points only instead of at a great number of different places. Furthermore, a tube of this character is adaptable to a wide range of diameters, will inclose the article tightly, and will absolutely prevent withdrawal of the article from the tube. Also in tubes of this character the inclosed article may be readily and rapidly removed without injury by simply cutting the wrapping sheet along the longitudinal line of closure of the tube.

It is thought that the use and application of the tube will be readily understood from the preceding detailed description.

Changes may be made in the construction, arrangement and relative disposition of the

several parts, without in any way departing from the field and scope of the same, and it is meant to include all such within this application, wherein only a preferred form has
5 been shown and described.

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

10 A mailing tube of the character described, comprising a flexible foundation sheet, and a plate secured to said sheet and provided

with downturned ends by which it may be secured to the foundation sheet, and having gripping teeth projecting inwardly from its face.

15

In witness whereof I have hereunto set my hand in the presence of two witnesses.

VICTOR GUERTIN.

Witnesses:

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