H. L. GRAY.

MAILING TUBE.

APPLICATION FILED JUNE 5, 1909.

956,636. Patented May 3, 1910.

Fig. 1.

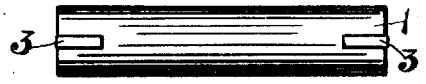


Fig. 2.

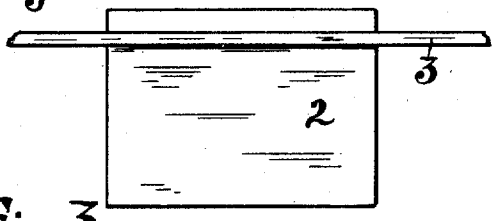


Fig. 3.

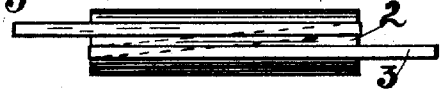


Fig. 4.

Fig. 5.

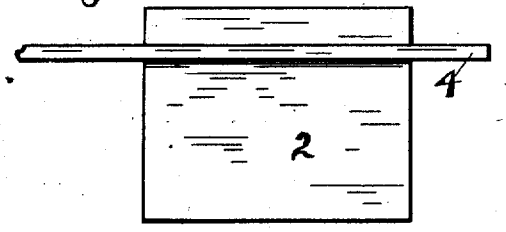


Fig. 6.

Fig. 7.

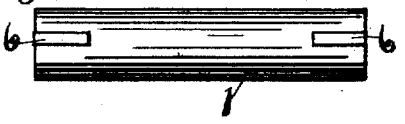


Fig. 8.

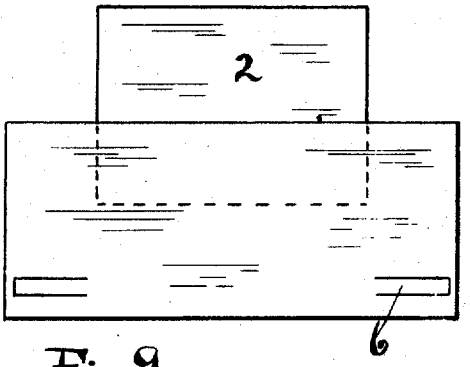
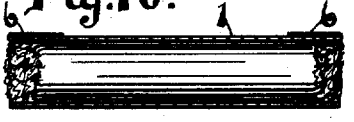


Fig. 9.

Fig. 10.



Witnesses
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UNITED STATES PATENT OFFICE.

HOMER L. GRAY, OF ALAMEDA, CALIFORNIA.

MAILING-TUBE.

956,636. Specification of Letters Patent. Patented May 3, 1910.

Application filed June 5, 1909. Serial No. 500,321.

To all whom it may concern:

Be it known that I, HOMER L. GRAY, a citizen of the United States, residing at 2417 Eagle avenue, Alameda, in the county of Alameda and State of California, have invented a new and useful Mailing-Tube, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

This invention relates to a mailing tube and its object is to secure articles in said tube and to provide means whereby the said articles may be easily removed therefrom.

A further object of the invention is to provide means whereby the articles in the tube may be protected from injury and kept clean in transit.

In the drawings, in which the same numeral of reference is applied to the same part throughout the several views, Figure 1 is a side elevation of a mailing tube showing one form of the securing means attached to the outside of the tube. Fig. 2 is a plan view of a sheet of material showing the securing tape or binding passed thereover, preliminary to being rolled up with said material for insertion in the tube. Fig. 3 shows the rolled up sheet of material and the manner of placing the securing tape or binding thereover, Fig. 4 is a side elevation of another tube, showing another form of the securing means attached to its outside, Fig. 5 is a plan view of a sheet of material and showing the tape or binding passed thereover for securing the same to the tube as illustrated in Fig. 6, Fig. 6 is a side elevation of the rolled up package, ready for insertion in the tube, Fig. 7 is a side elevation of a tube, having another form of the securing means attached thereto. Fig. 8 is a plan of a sheet of material with the securing and protecting means passed thereover ready for rolling, Fig. 9 is a side elevation of a rolled up package ready for insertion in the tube, and Fig. 10 is a view of a vertical section through the tube, showing manner of protecting the ends of the rolled up article and showing the securing means.

It is customary to send articles, such as calendars, sheets of material of various kinds and even breakable articles, through the mails in paper or sheet tubes of some description. When articles which are rolled up are inserted in such a tube, the spring of the material is so considerable that it causes the mass of said material to press tightly against the inside of the tube. The friction thus produced is so considerable that it often becomes very difficult to take the articles out of the tube, various means have been therefor devised for the removal of the article. In this instance the tube is illustrated at "1" and is of the ordinary cylindrical form having both ends open. The sheet of material to be rolled up and inserted in the tube is illustrated at "2" and "3" is a narrow band of any suitable material, as heavy paper, which is passed across the sheet of material, said material then being rolled into the form shown in Fig. 3, the ends of the tape or binding "3" are then passed across the body of the material from end to end in opposite directions as indicated in Fig. 4. The object is then inserted in the tube and the ends of the tape or binding "3" are then secured to the tube in any suitable manner as illustrated in Fig. 1. It will be observed that this forms a firm securing means since the sheet of material cannot be unrolled without taking it out of the tube and it cannot be taken out of the tube without first removing the ends of the tape or binding therefrom.

In Fig. 4 is illustrated a modified form of the securing means. In this figure the tube "1" and the sheet of material are the same but the tape or binding "4" has only one end passed across the rolled up sheet of material as illustrated in Fig. 6, the other end being rolled up inside the body of said material. When sheet is rolled up as illustrated in Fig. 6, it is ready for insertion in the tube, after which the ends of the tape or binding may be secured to the tube as illustrated in Fig. 4.

When it is desired to protect the ends of the rolled up body of material the tape or binding may be widened into a sheet as illustrated in Fig. 8, said sheet having a pair of straps "6" formed therein, at each end thereof said tape or binding being near enough to the edge of the sheet of material to lie outside the rolled up body when the roll is complete as illustrated in Fig. 9. The body is then ready for insertion in the tube and when inserted the ends of the roll are pressed down into the end of the mailing tube as illustrated in Fig. 10, said ends of the sheet then protecting the rolled up body. The tapes or bindings "6" are then turned outward and secured to the outside of the

tube, said tape or binding forming means whereby the material is prevented from falling out of the tube and they also form a convenient means, whereby the material may be removed from the tube by being simply pulled away therefrom.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States, is as follows:—

1. In a mailing tube, a cylindrical tube, and a rolled wrapper within the tube, said rolled wrapper having tabs adapted to project from the tube and be secured on the outside thereof, substantially as described.

2. In a mailing tube, a cylindrical tube, and a rolled wrapper within the tube, said rolled wrapper comprising a rectangular sheet having a tab at each end thereof which is adapted to project from the tube and be secured on the outside thereof at each end of the tube, as set forth.

3. In a package, a cylindrical tube, a parcel, and a wrapping for said parcel comprising a rectangular sheet of material having a tab at each end thereof, said tab secured to the outside of the tube at each end thereof, the remainder of the projecting portion of said sheet material being crumpled within the tube at the ends thereof, as set forth.

In testimony whereof I have set my hand in the presence of the two subscribed witnesses.

HOMER L. GRAY.

Witnesses:
C. P. GRIFFIN,
A. K. DAGGETT.