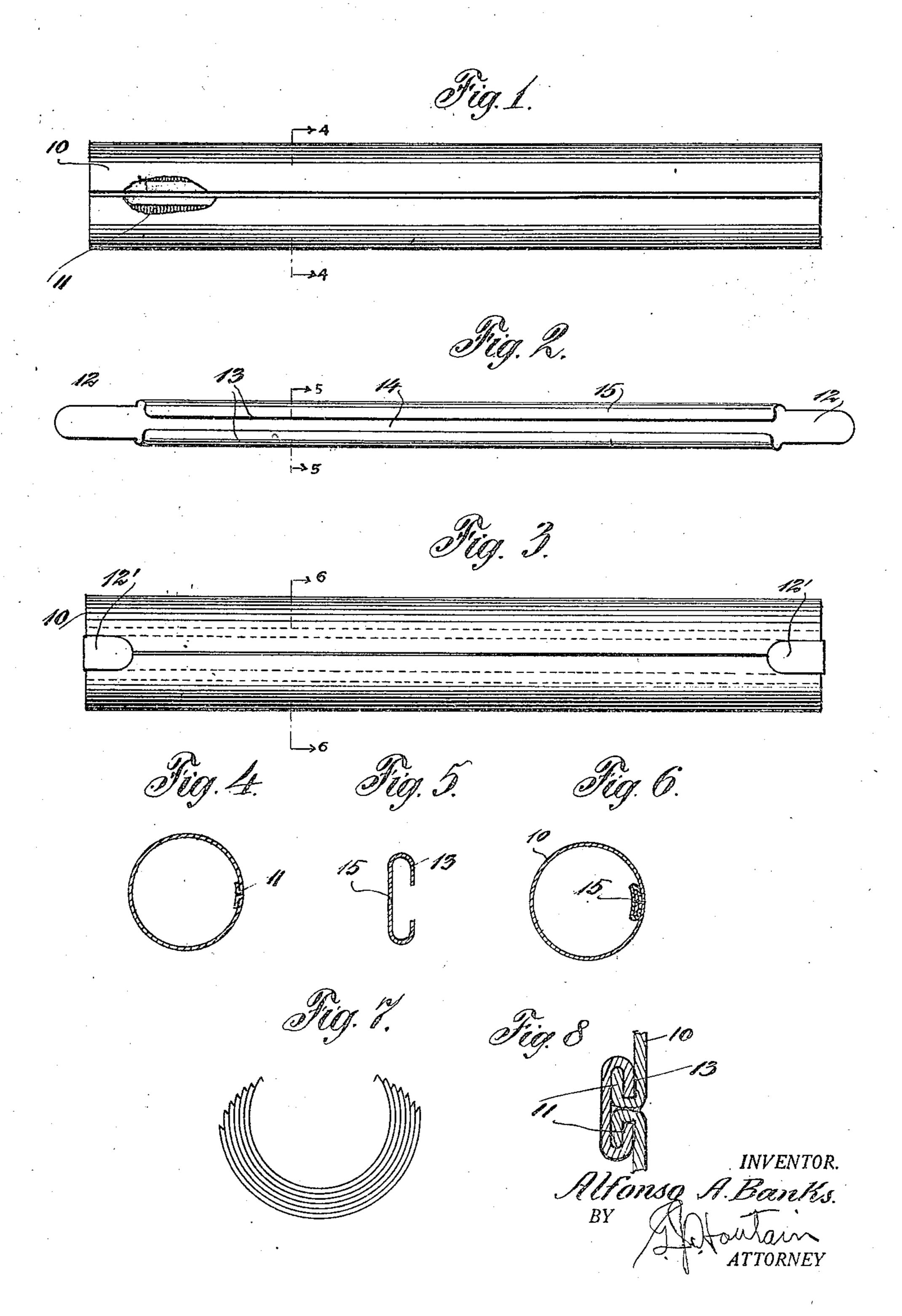
A. A. BANKS.

MAILING TUBE.

FILED AUG. 9, 1920.



## UNITED STATES PATENT OFFICE.

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## MAILING TUBE.

Application filed August 9, 1920. Serial No. 402,329.

To all whom it may concern:

a citizen of the United States, and resident 8 is a fragmentary detail view on an enof New York city, in the county of New larged scale showing the inter-fitting rela-5 York and State of New York, have invented tion. certain new and useful Improvements in In the practice of my invention rectangu-Mailing Tubes, of which the following is a lar sheets are cut from paper, cardboard

10 stationery, etc., as are particularly used as the desired dimensions as shown in Fig. 1 65 wrappers for mailing papers and parcels, designated by numeral 10. The edges of where it is necessary to wrap same in such these sheets are then folded in overlapping a manner that the enclosure will not be relation upon the body of the sheet of ma-

for mailing and securely sealed against ac- will be obvious it may be desirable to com-20 cidental displacement, so that adequate pro- press these folded edges beneath a hot iron or 75 25 minimum of space, which is accomplished turned inwardly and serve to retain the de- 80 by making a device from a flat piece of vice in tubular form, as indicated by material. A further object is to provide a numeral 11, as will presently be explained. mailing tube which will be inexpensive to The next step in the construction of the de-30 use and a still further object is to provide a is shown in Fig. 2 and Fig. 5, Fig. 5 being 85 mailing tube from which the enclosures may an enlarged sectional view on line 5-5 of be easily and quickly removed and a further object is to provide a mailing tube, which may be used repeatedly if desired.

With this and further objects in view reference may be had to the accompany- indicated by numeral 12, narrower than the ing drawings in which Figure 1 is a side body of the strip which is then bent upview of my mailing tube in position for wardly and toward the center of the strip, sealing or for being secured in tubular form as shown by numeral 13, see Figures 2 and 5, 40 by the sealing means provided, constituting thus forming a double channel with a nar- 95 a part of my invention. A portion of the row opening between the turned edges of wall of the tube in this view is broken to the strip as 14, to assemble the tube and show interior features of construction. Fig. make it ready for use. One of the sheets of 2 is a plan of the sealing means or means material of which the tubular portion is for securing the mailing tube in tubular formed is taken and rolled into tubular form 100 form. Fig. 3 is a view of the mailing tube with the edges 11 disposed inwardly, as deand sealing means in assembled relation and scribed when they are brought into mailing sealed ready for use, whereby the tubular relation. The tubular member is thus firmly form of the device is made secure. Fig. 4 held with one hand and with the other hand is a sectional view taken on the line 4-4 the double channel member 15 is grasped 105 of Fig. 1. Fig. 5 is a sectional view taken and the end of the channel member or sealon the line 5-5 of Fig. 2. Fig. 6 is a sec- ing means is inserted in the end of the tube tional view taken on the line 6-6 of Fig. 10 in such a manner that the flanges or

be arranged together in concentrically dis-Be it known that I. Alfonso A. Banks, posed groups one within the other and Fig.

or other desired material, which when dis-This invention relates to office supplies, posed in tubular form will make a tube of damaged by crushing, crumpling or han- terial and pressed by manual pressure or The object of my invention is to provide folded edges will retain the position forma tubular container or mailing tube, in ing a pleat on the opposite edges of the which enclosures may be carefully wrapped sheet, of which the tube is to be formed; as tection will be provided for all enclosures. stamp compressor, using moisture or stiffen-A further object of the invention is to pro- ing of some kind to insure their retaining vide a mailing tube, which will occupy when the folded position when the tube is made up transported commercially in quantities i into form for use. These folded edges are manufacture and easily manipulated for vice is to make the sealing means, which Fig. 2. First a strip is cut by stamp or stencil process from a sheet of material of any suitable character, preferably thin metal, and with end portions rounded as 90 3. Fig. 7 is a diagrammatic view showing edges 13 engage within the overlapping edges 55 the manner in which the tubular parts may 11 of the tube 10 as in a groove. The chan- 110

lapping edges of the tubular member the device is formed. throughout the entire length of the tube, While I have described one specific form until the foremost end or inner end pro-5 trudes from the opposite end of the tube. This channel member is of such a length that when which it is designed to be used the rounded ends 12 which extends upwardly beyond of this invention.

10 the respective ends of the tubular member and the overlapping edges or pleats 11 are I claim as new and desire to protect by securely held one within each of the grooves Letters Patent of the United States, is: or channels under the overlapping edges 13 of the channel member, as shown in Fig. 6 of

15 the drawings, also in the fragmentary detail view made on an enlarged scale Fig. 8. It will now be seen that the edges of the

tubular member are held firmly together making a complete tubular container by the 20 channel member 15. The next and final step is to bend upwardly the ends 12 of the channel member or sealing means and com-

nent form for use is complete. The tube now the tube. resembles in appearance and is the equiv- 3. In a mailing tube, a tubular portion

same manner as an ordinary pasteboard thereof, sealing means for retaining the tub-

poses that they will be made of various lengths, in sizes of varying diameters.

ing means or channel members 15 may be the outer surface of the tube. 50 packed in quantities in cases of the desired Signed at the city of New York, State capacity, a sufficient number thereof being of New York, this 16 day of June A. D. packed and shipped with each order of the 1920. mailing device, to accompany the number

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nel member is then forced over the over- of sheets from which the tubular member of

of my device, I do not wish to limit myself to the specific form of construction described and shown in this application, but thus inserted in the tubular member, with reserve the right to depart therefrom within 60 the spirit and reasonable scope and objects

Having thus described my invention what

1. A mailing tube comprising a flat piece of material adapted to be disposed in tubular formation and having integral inturned flanges formed on its respective longitudinal edges, a separate member adapted 70 for engaging the edge flanges of the tubular member to maintain the same in closed position, so as to form a substantial and permanent mailing tube.

2. In a mailing tube a piece of flexible 75 press them closely against the outer surface material having grooved parallel longitudof the tubular member, as shown at 12' inal edges formed integral therewith and 25 in Fig. 3; thus the rounded ends 12 serve adapted to be rolled in tubular form, so that as clips to prevent the channel member 15 the grooved edges thereof are adjacent one from moving longitudinally and slipping to another, and a channeled locking member, 80 out of the tube, whereby the tube member said grooves adapted to telescopically rewould be released and the parcels or other ceive said channeled member, and means 80 matter contained therein unwrapped and ex- comprising integral end extensions on said posed. Thus the formation of the mailing channel members for retaining the channel tube and the sealing of same into a perma- member in fixed longitudinal relation with 85

35 alent for all practical purposes of an ordi- formed of a sheet of flexible material having nary pasteboard mailing tube, and to mail mating edges and grooves formed integrally articles therein it is used in precisely the therewith by folding the edges upon the body 90 ular form of the device comprising a chan-It is contemplated in the manufacture of nel member having two grooves, one adaptthese mailing tubes for commercial pur- ed to engage each of said mating edges and having inwardly turned edges for engaging 95 beneath said mating edges as a tongue with-For shipment the sheets will fold at edges in a mating groove and clips extending be-45 for constructing the tubular proportion youd the end of the tubular member and and the device may be made for and packed formed integrally therewith for securing in cases of desired depth, thus economizing the channel member in position for retain- 100 space for storing and shipment. The seal- ing the edges, when they are bent to engage

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