

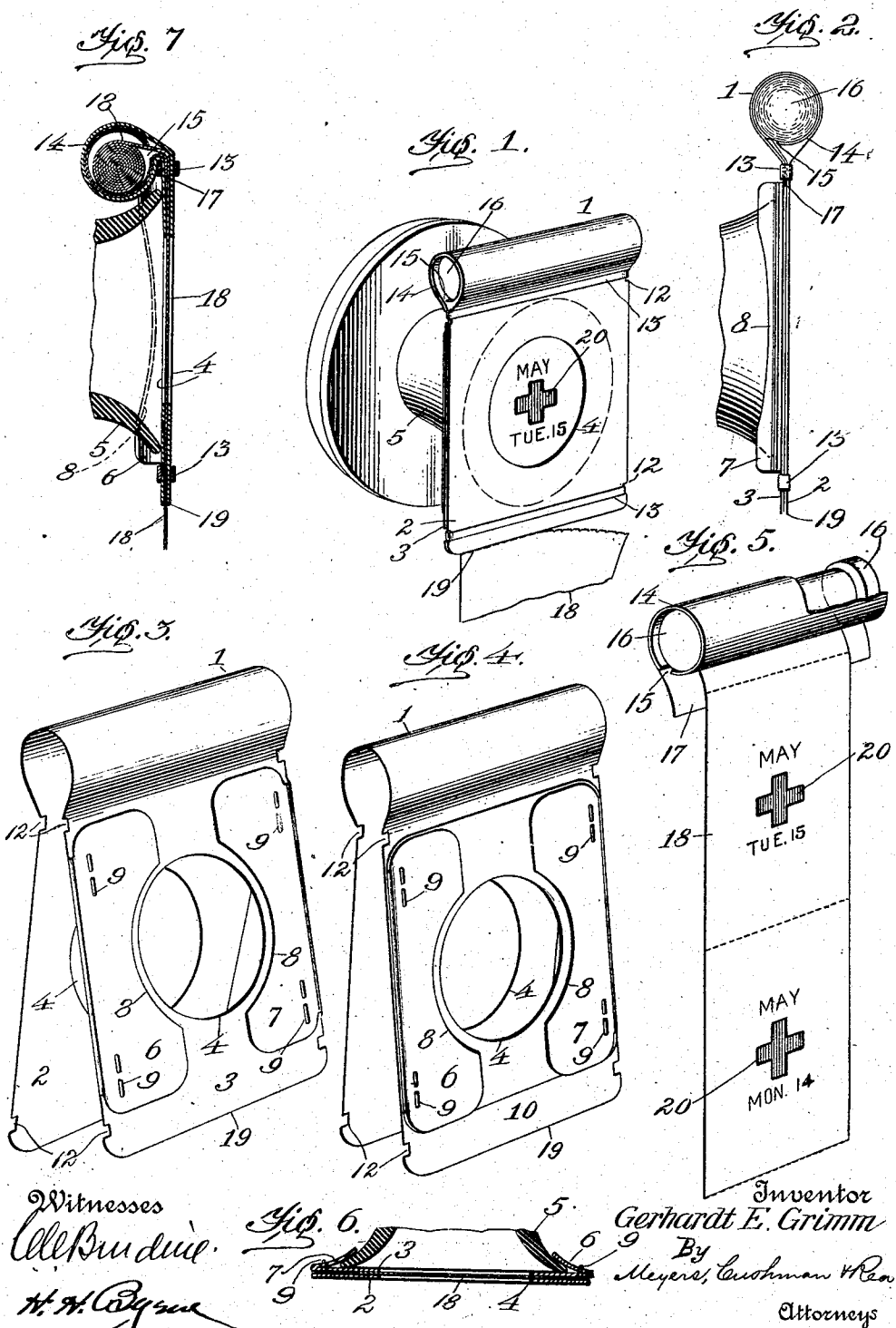
No. 860,025.

PATENTED JULY 16, 1907.

G. E. GRIMM.

GUARD FOR THE MOUTHPIECES OF TELEPHONE TRANSMITTERS.

APPLICATION FILED MAY 26, 1906.



Witnesses  
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Fig. 6.

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# UNITED STATES PATENT OFFICE.

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## GUARD FOR THE MOUTHPIECES OF TELEPHONE-TRANSMITTERS.

No. 860,025.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed May 26, 1906. Serial No. 318,855.

*To all whom it may concern:*

Be it known that I, GERHARDT E. GRIMM, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Guards for the Mouthpieces of Telephone-Transmitters, of which the following is a specification.

My present invention relates to new and useful improvements in guards for the mouth-piece of telephone transmitters, and especially to guards which are adapted to be detachably engaged with the transmitter, and including in their structure, an antiseptically treated film or web which, when the guard is in operative position, is disposed over the entrance to the transmitter to prevent the accumulation of disease germs in said mouth-piece, as well as to destroy such germs and prevent the possible spread of disease.

The primary object of the invention is to provide a guard of the character mentioned, which is simple in construction, inexpensive of production, and which will effectually attain the purposes for which it is devised.

A further object of the invention is to provide a guard which will embody in its construction improved and simplified means for supporting a web of antiseptic material in position to have a portion thereof disposed across the mouth-piece of the transmitter, and which will permit said portion to be removed when deemed necessary and replaced by a fresh or new portion.

A further purpose of the invention is to provide a novel construction of package, roll or film of antiseptically treated material adapted for use in connection with a suitable web or film holder, such for instance, as the holder herein shown and described.

A still further purpose is to construct an antiseptically treated web or film in roll form, with calendar indications on its face, so spaced as to be successively brought to view through the "talking" opening in the holder provided therefor, whereby to provide a simple and convenient calendar and combined telephone guard.

The invention has in view other more or less important objects, which will be clearly set forth in the following detailed description.

Briefly and generally stated the invention comprises in part, a web or film holder, consisting of superposed plates or leaves having registering openings and an attached roll holding housing at one end, and means for attaching the holder to the mouth-piece of a telephone transmitter.

The invention further comprises a novel construction of web or film package, consisting of a slotted tube having closed or sealed ends and a flap for covering and closing the slot in the tube.

Further, the invention comprises the features of construction and arrangement of parts hereinafter set forth in detail and then defined in the appended claims.

In the annexed drawing, which is illustrative of the preferred embodiment of the invention, Figure 1 is a perspective view of one of my improved telephone guards shown attached for use on a telephone transmitter; Fig. 2 is an end view of the same; Fig. 3 is a perspective view of the holder looking at the rear side thereof and showing the means for attaching the same to a transmitter; Fig. 4 is a view similar to Fig. 3, showing a slightly modified construction; Fig. 5 is a perspective view, partly broken away, of the web or film package and roll, the web or film being partially withdrawn; Fig. 6 is a transverse sectional view of the holder shown applied to a transmitter mouth-piece; and Fig. 7 is a central longitudinal section of a holder having the roll-housing offset rearwardly from the plane of the holder plates or leaves.

In the preferred form of the invention, as illustrated in Figs. 1, 2 and 3 of the drawing, the holder or guard consists of a sheet of card-board, celluloid, metal or other suitable material, bent intermediate its ends to provide a cylindrical housing 1, at one end of the holder, the two end portions or leaves 2 and 3 being brought together or superposed as shown, to provide between them a space to receive the antiseptically treated web or film presently to be described. Each of the leaves 2 and 3 is provided with an opening 4, which openings register with each other when the leaves are superposed, and also register with the opening in the transmitter mouth-piece 5, as shown more clearly in Figs. 6 and 7, when the holder is in position for use.

The rear leaf 3, in the form of invention shown in Fig. 3, is further provided with suitable means for detachably engaging the mouth-piece 5 of the transmitter to support the holder in position for use. This engaging or attaching means consists of oppositely disposed arms or wings 6, 7, which may be formed integral with the leaf 3, said wings or arms 6, 7, being bent or folded rearwardly on the rear face of the leaf 3, with their unattached ends free and extending toward each other, as shown. In placing the complete guard in position on the mouth-piece 5 of the transmitter, the arms 6, 7, are arranged to resiliently engage and grasp the said mouth-piece and serve to frictionally hold the latter at diametrically opposite points thereon. In order to provide for a more secure and effective engagement of the wings with the transmitter, the vertical free edge of each wing is formed with a curved recess 8 in which a portion of the mouth-piece is received, and which curved portions engage the circular mouth-piece and afford a more satisfactory

engagement than if said vertical engaging faces were straight. The wings 6, 7, are permanently secured to the leaf 3, so as to provide a practically integral structure.

5 The means for securing the wings to the leaf 3 consists of wire staple fasteners 9 of well known form, which are located closely adjacent the vertical edges of the leaf 3, the prongs of said staples passing through the said wings and leaf so that not only are the wings  
10 permanently secured at their bases, but are anchored to the leaf 3 at a point removed from their free or recessed edges, whereby great rigidity and grasping strength is given to said wings, so that they form elastic or spring mouth-piece engaging clips to hold the guard  
15 more effectively in position. While I have shown the wings secured by wire staples, as affording a simple and efficient means for this purpose, it is obvious that other means may be employed if desired, without departing from the spirit of the invention.

20 Instead of forming the wings 6, 7, integral with the rear leaf 3, I may, if desired, form these wings integral with a supplemental plate 10, as shown in Fig. 4, which plate, with the attached wings, may then be secured to the rear face of the leaf 3. This construction gives additional strength and rigidity to the leaf  
25 3, and is especially desirable in constructions where the holder is formed of cardboard.

In order to hold the leaves 2, 3, in facial contact, and the cylindrical housing 1 in proper position to  
30 receive the film package or roll, presently to be described, I provide the opposite edges of the leaves 2 and 3 with notches or recesses 12, said notches or recesses being adapted to receive and retain endless elastic bands 13, which are stretched over and around  
35 the leaves of the guard as clearly shown. The notches or recesses 12 are preferably located at the base of the cylindrical housing 1, and free end of the leaves, respectively. The endless elastic bands may be readily removed and replaced, as desired, in order to facilitate  
40 the operation of supplying a new film or web roll.

The film roll or package, which constitutes one of the features of this invention, consists of a paper tube 14  
45 having a longitudinal slot 15, and plugged or sealed ends 16. The ends of the tube may be closed in any preferred manner but in the arrangement shown, simple plugs or stoppers are employed, which, after the roll or film is in position, may be closed and hermetically sealed. The tube 14 has an attached flap 17, the  
50 free end of which is adapted to close the longitudinal slot 15, whereby to maintain the roll or film 18 of antiseptically treated material, in a perfectly clean and sanitary condition when packed or stored. This flap  
55 17 also serves to prevent endwise movement of the tube when the latter is placed in position in the cylindrical housing 1, this result being accomplished by reason of the fact that the flap extends down between the two  
60 leaves 2, 3, and below the point where the uppermost elastic band surrounds the leaves, all as more clearly shown in Figs. 2 and 7 of the drawing.

The roll or film of antiseptically treated material 18 is in the form of a thin web or sheet of tissue paper treated with any suitable antiseptic composition. In order to combine with this web a ready and convenient calendar and also provide a means to indicate to  
65 the user of the telephone whether a fresh portion of the

web or film has been moved over the mouth piece, each day, I imprint thereon in successive order and at proper distances apart, indications corresponding to the calendar months and days, these indications being so separated or spaced apart as to be brought  
70 successively into view over the openings in the leaves. By preference, the antiseptically treated web or film is transversely scored or weakened, at the points between the before mentioned calendar indications, although these scorings may be omitted if desired,  
75 it being understood that the lower edge 19 of the leaves 2, 3, provide a tearing edge for the web or film whereby to permit an easy separation thereof, as it is withdrawn from the roll. Instead of providing the web or film with calendar indications, I may print thereon any  
80 other suitable mark or character, as for instance a red cross; or the web or film may be provided with suitable advertising matter, as desired. I consider that the provision of a web or film of this character, with calendar indications thereon, to be an important feature  
85 of the invention, because it thus practically insures the bringing of a clean film surface over the openings of the blank each and every day of the year, thus making the device more sanitary, and at the same time  
90 providing a ready calendar.

In Figs. 1, 2, 3 and 4 the cylindrical housing 1 is shown as disposed above and in line with the leaves 2, 3. If desired, this housing may be offset to one side of the plane of the leaves, as in Fig. 7. This construction somewhat reduces the size of the exposed face of  
95 the guard, rendering it more sightly; and, furthermore, the web or film being compelled to travel, during the unrolling operation, over the bent portion of the leaves, increases the frictional resistance thereof and prevents a too ready withdrawal thereof from the roll,  
100 thus avoiding undue waste of the web.

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

1. A telephone guard, comprising a strip or plate bent intermediate its ends to provide a cylindrical housing at  
105 one end of the guard, the leaves of the strip or plate having registering openings, and means for securing the guard in place on the mouth-piece of a transmitter.

2. A telephone guard, comprising a cylindrical housing having two superposed leaves attached thereto, each provided with an opening, and means for securing the guard  
110 in place on the mouth-piece of a transmitter.

3. A telephone guard, comprising a cylindrical housing of sheet material having superposed leaves formed integral therewith, said leaves being provided with registering  
115 openings, and means for securing the guard in place on the mouth-piece of a transmitter.

4. A telephone guard, comprising two superposed leaves having a cylindrical housing formed integral therewith, said leaves being provided with registering openings, and  
120 means carried by one of the leaves for securing the guard in place on the mouth-piece of a transmitter.

5. A telephone guard, comprising a strip or plate of sheet material, bent intermediate its ends to provide a housing at one end of the guard and two normally free  
125 leaves, said leaves being provided with registering openings, removable means for maintaining the leaves in facial contact; and means for securing the holder in position on the mouth-piece of a transmitter.

6. A telephone guard, comprising a strip of sheet material bent intermediate its ends to provide a housing at one end of the guard and two normally free leaves, said leaves having registering openings, endless bands encircling the  
130 leaves to hold them in facial contact, and means for securing the guard in position on the mouth-piece of a transmitter.

7. A telephone guard, comprising a strip of material bent intermediate its ends to provide a housing and two normally free leaves, said leaves having registering openings and notches, endless elastic bands encircling the leaves and engaging the said notches, and means for securing the guard in position on the mouth-piece of a transmitter.

8. A telephone guard, comprising a cylindrical housing having two superposed leaves provided with registering openings, a web of antiseptically treated material in roll form located in said housing and adapted to be drawn between the leaves and over said openings, and means for securing the guard in place on the mouth-piece of a transmitter.

9. A telephone guard, comprising a strip of sheet material bent intermediate its ends to provide a cylindrical housing and two normally free leaves, said leaves being provided with registering openings, removable means for maintaining the leaves in parallelism, a film or web of antiseptically treated material located in said housing and adapted to be drawn between the leaves and intercept the said openings, and means for securing the guard to the mouth-piece of a transmitter.

10. As an article of manufacture, a web or film of anti-

septically treated material in roll form, a slotted tube for said roll, and a flap on the tube for closing said slot.

11. A telephone guard, comprising two superposed normally free leaves having registering openings, a cylindrical housing to which said leaves are attached, a tube removably mounted in said housing, a web or film of antiseptically treated material in roll form in said tube, a flap on the tube extending between the leaves, and an endless band surrounding the leaves at the point where the flap enters the latter whereby to prevent end-wise displacement of the tube.

12. A telephone guard, comprising a pair of normally free leaves formed integral with a cylindrical housing, said housing being offset rearwardly from the plane of the leaves, a film or web of antiseptically treated material in roll form mounted in said housing and adapted to be drawn between the leaves, and means for securing the guard to the mouth-piece of a transmitter.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GERHARDT E. GRIMM.

Witnesses:

L. J. LOGAN.

E. M. RICHARDSON.