

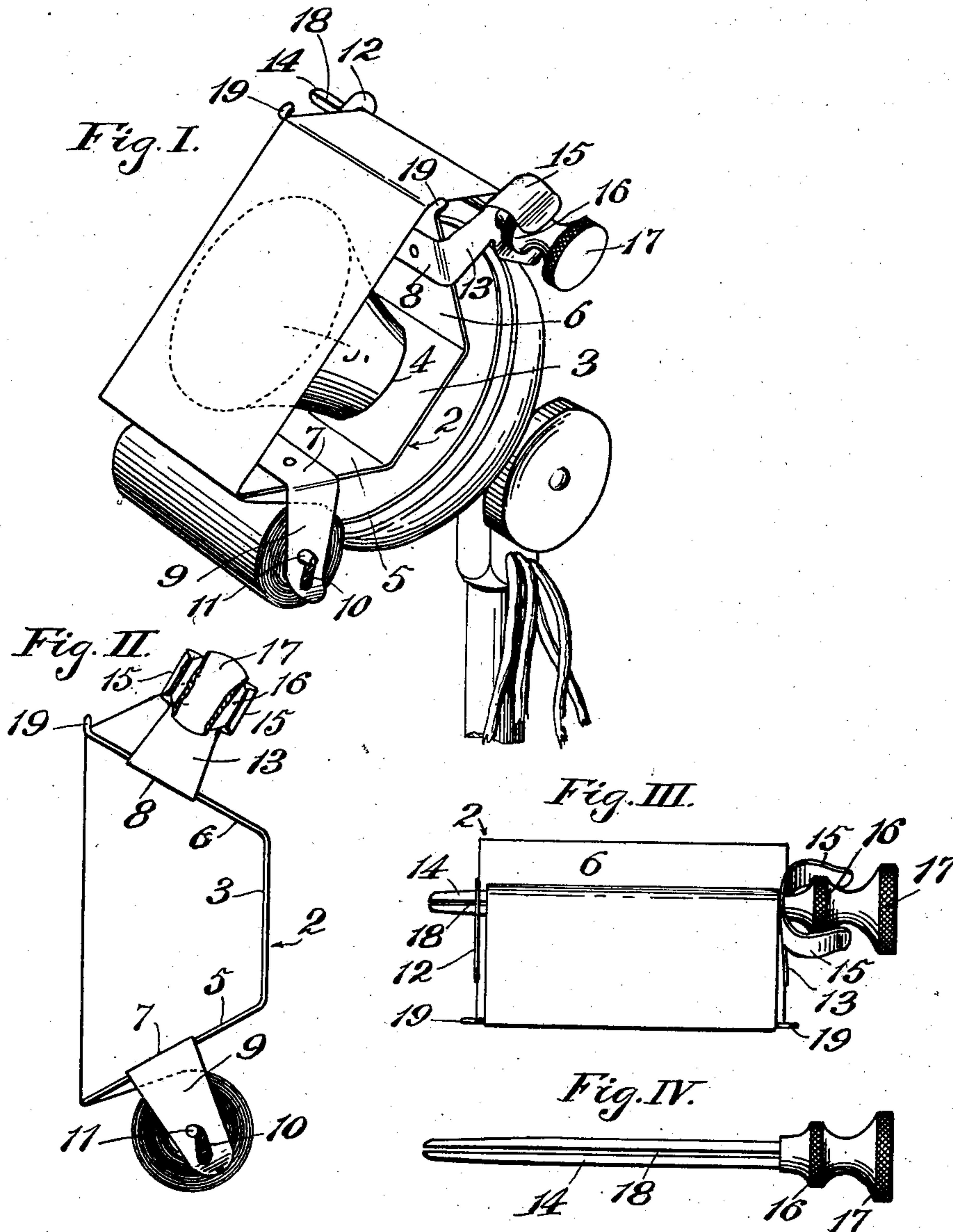
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PATENTED NOV. 17, 1903.

H. L. CUTTER.
TELEPHONE HYGIENIC APPLIANCE.

APPLICATION FILED MAR. 9, 1903.

NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

HORACE L. CUTTER, OF LOS ANGELES, CALIFORNIA.

TELEPHONE HYGIENIC APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 744,497, dated November 17, 1903.

Application filed March 9, 1903. Serial No. 147,020. (No model.)

To all whom it may concern:

Be it known that I, HORACE L. CUTTER, a citizen of the United States of America, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a certain Improved Telephone Hygienic Appliance, of which the following is a specification.

This invention relates to hygienic appliances for sound transmitters and receivers, and particularly to the further improvement of that appliance set forth in the patent to Thomas R. Owen, dated July 17, 1900, No. 654,096.

The object of this invention is to provide improved means by which the hygienic strip will be held across the transmitter or receiver and by which it may be drawn thereacross without becoming fastened so as to tear prematurely.

A further object is to provide means whereby the used portion of the strip is drawn away from over the transmitter or receiver and wound in a roll, the drawing over of such used portion effectuating the drawing forward over the receiver or transmitter of a fresh portion of the hygienic strip.

A further object is to provide such strip-operating means in simple, cheap, and durable form and so constructed that upon the use of the entire length of the strip or any part thereof the roll of used strip may be readily removed and a clean roll substituted.

A further object is to provide suitable means, in connection with the means for drawing the used portion of the hygienic strip from the receiver or transmitter, to keep the roll thus formed from backward movement, keeping the strip over the transmitter taut.

With these and such other objects and ends in view as hereinafter appear the invention consists in general in the constructions and specific combinations of parts, all as hereinafter described, and particularly pointed out in the claims, and will be more readily understood by reference to the accompanying drawings, forming a part of this specification.

Figure I is a perspective view of an improved telephone hygienic appliance embodying my invention attached to a transmitter. Fig. II is a side view. Fig. III is a plan view.

Fig. IV is a detail view of the spindle detached.

As shown in the drawings, 2 represents the frame of the appliance, which has the base portion 3, provided with a central perforation 4, through which the receiver or transmitter projects, and the two side portions 5 6, forming supports for the frames 7 8. The frame 7 has downwardly-projecting ends 9. The ends 9 are curved slightly outward at the extremities and are provided with slots 10, which slots, as shown, commence toward the extremities of the ends 9 and run out substantially at right angles to the side portion 5 and toward the upper ends of the arms 9. The slots are curved toward the end of the side portion 5, as shown, to form seats or bearings for the axle 11 of the supply-roll. This supply-roll is preferably composed of a shaft or axle, preferably of metal, having a portion of the hygienic strip wound tightly thereabout, forming a roll of the desired size to provide the predetermined length of strip to be furnished with the supply-roll. The frame 7 is preferably of spring metal, so that its ends press against the ends of the supply-roll on the axle 11 and prevent the unwinding thereof except by a positive pull upon the strip.

The ends 12 and 13 of the frame 8 extend outwardly at substantially a right angle to the side portion 6 and are provided with perforations through which the spindle 14 is inserted. The end 13 of the frame 6 is provided with outwardly-flaring spring-arms 15, preferably formed integral with the end 13 and of spring metal, against which the portion 16 of the head of the spindle 14 is adapted to bear when the spindle is in position. The periphery of the portion 16 is preferably milled or roughened, so that the braking action of the spring-arms is accelerated. The spindle is provided with a suitable head 17, by means of which it may be readily turned by the person at the telephone. The spindle 14 is provided with a longitudinal slot 18, through which the end of the hygienic strip may be inserted, and upon the revolving of the spindle the tension of the strip binds the strip upon the spindle, forming a sufficient attachment for the strip thereto. If desired, the spindle may be made of spring metal and

split and the ends of the hygienic strip passed between the two portions of the spindle, which will thus form a spring-grip thereon, though I do not deem such a construction necessary for the effective working of the appliance.

19 represents ears or lugs upon the plate 6 to keep the strip from running over the edges of the side portions 5 and 6.

A suitable length of the hygienic strip having been wound upon an axle 11 the ends of the axle are passed into the slots 10 and the ends of the axle swung up into the bearings or seats thereof. The end of the strip is then pulled across from the end of the side portion 5 over the transmitter or receiver A and thence to the spindle 14, the end being passed through the longitudinal slot thereof and a short portion drawn through, so that upon turning the spindle the end of the strip is bound upon the spindle. The tension of the spring ends of the frame 7 is sufficient to keep the supply-roll from movement, except under direct pull, and the tension of the spring-arms upon the portion 16 of the spindle is sufficient to keep the spindle from turning, thereby holding the strip taut across the mouthpiece of the transmitter.

When all portions of the hygienic strip have been brought over the mouthpiece of the transmitter and used and it is desired to remove the used strip and replace it with a new one, all that is necessary to do is to pull out the spindle, thus freeing the roll of used strip. The axle 11 is then removed from the bearings and slots 10 and a new supply-roll put in position with its axle in the bearings and the ends of the strip carried up into the spindle, as before.

It is obvious that the ends of the axle 11 are retained in their bearings when the device is in use, as the strip projects out from the roll over the end of the side portion 5 and thence across onto the spindle. The tension of the strip tends to pull the roll forward, holding the ends of the axle firmly in place in the bearings in the slot 10.

It is obvious that, if desired, the supply-strip may be arranged at the top and the spindle or receiver may be arranged at the bottom and that other modifications might be made in the appliance. I therefore do not limit myself to the exact construction shown or described.

It will be seen that when the supply-roll is revolved the surface of the paper which forms the outer surface of the supply-roll will form the under surface of the strip when the strip is drawn across the receiver or transmitter and that the used portion of the strip when rolled upon the spindle 14 is covered by the unused portion. It is thus seen that the old portions of the hygienic strip which have been subjected to the breath of the person at the telephone are thus by the movement of the strip carried into such position that any fouling of the strip by use before its

movement is prevented from exhibition upon further movement of the strip.

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

1. A strip-holder for a telephone hygienic appliance comprising a suitable frame, means for supporting a supply-roll, and a longitudinally-split spindle longitudinally withdrawably mounted in said frame and adapted to be rotated to withdraw and receive the used portion of the strip from over the receiver or transmitter.

2. A strip-holder for a telephone hygienic appliance, comprising a frame, adapted to be secured on a transmitter or receiver, a supply-roll having an axle, bearings in said frame for said axle, longitudinally-split revoluble means carried by and bodily withdrawable through said frame on the opposite side of the receiver or transmitter, said means adapted to receive said strip from said supply-roll, and means for holding said strip taut over said receiver or transmitter.

3. In a strip-holder for a telephone hygienic appliance, a frame adapted to be secured upon a transmitter or receiver, said frame provided at respective sides of said receiver or transmitter with suitable supports, a supply-roll mounted on one side of said support, a revoluble receiving device mounted on the other support, means for holding the strip taut across said receiver or transmitter between said supply-roll and said receiving device, and said receiving device adapted to be bodily withdrawn through its bearing from the used strip rolled thereabout and permit its removal.

4. A strip-holder for a telephone hygienic appliance comprising a frame, a support extending therefrom, the ends of said support provided with bearings, a supply-roll an axle thereof adapted to rest in said bearings, said frame provided with a second support having ends, a spindle in said ends, means provided in connection with said support to frictionally brake the revolution of said spindle, said spindle being split longitudinally to receive the end of the strip from said supply-roll, and bodily withdrawable through its bearing in said support to release the strip wound thereabout.

5. In combination a frame adapted to be positioned upon a receiver or transmitter, said frame having outwardly-extending side portions, said side portions respectively provided with supports, one of said supports adapted to receive a supply-roll, a revoluble strip-receiver in the other support, said strip-receiver being split longitudinally and bodily withdrawable through said support, and means for preventing said roll and strip-receiver from revolving and to hold the strip taut across between said outwardly-extending portions of the frame.

6. In combination a frame having out-

wardly-extending portions adapted to project on opposite sides of a telephone receiver or transmitter, said portions provided with supports or frames, one of said frames provided with bearings, a supply-roll having an axle adapted to rest in said bearings, a spindle in the other frame, said spindle being bodily withdrawable through its support and split longitudinally to receive the end of the strip from said roll and to be revolved to unwind said strip from said roll and wind the used portion of the strip thereabout, and a friction-brake operating upon said spindle.

7. In a telephone hygienic appliance the combination with a suitable frame, of a supply-roll mounted thereon, a spindle rotatably and longitudinally withdrawably mounted in said frame at the opposite side of said receiver or transmitter, said spindle being longitudinally split and adapted to receive the end of the strip from said supply-roll.

8. In a telephone hygienic appliance the combination with a suitable frame, of a supply-roll mounted thereon, a spindle rotatably and longitudinally withdrawably mounted in said frame at the opposite side of said receiver or transmitter, said spindle being longitudinally split and adapted to receive the end of the strip from said supply-roll, and a friction-brake operating against said spindle.

9. In a telephone hygienic appliance, in combination a frame adapted to be supported upon a receiver or transmitter, said frame provided with means for supporting a hygienic-strip-supply roll at one side of said receiver or transmitter and with a support at the other side of said receiver or transmitter, a spindle in said second support, said spin-

dle being longitudinally withdrawable from its support and provided with a longitudinal groove or slot to receive the end of said strip passed from said supply-roll across said transmitter or receiver, and said second support provided with outwardly-extending spring-arms adapted to frictionally contact with said spindle.

10. A telephone hygienic appliance comprising a frame, means for supporting a supply-roll, longitudinally-split rotatable means arranged opposite said roll and adapted to draw the strip from said supply-roll across the receiver or transmitter and receive the same, and adapted to be bodily withdrawn from the roll of used strip to release the same, and means in connection with said rotatable means adapted to normally hold said rotatable means against rotation.

11. A telephone hygienic appliance comprising a frame, means for supporting a supply-roll, rotatable means arranged opposite said roll, said means adapted to receive within itself the end of the strip from said supply-roll and upon its rotation draw said strip across the receiver or transmitter and wind the same into a roll and adapted to be bodily withdrawn longitudinally from said roll to release the same.

In testimony whereof I have hereunto set my hand, this 28th day of February, A. D. 1903, at Los Angeles, in the county of Los Angeles, State of California.

HORACE L. CUTTER.

In presence of—

FREDERICK S. LYON,

THOMAS S. WADSWORTH.