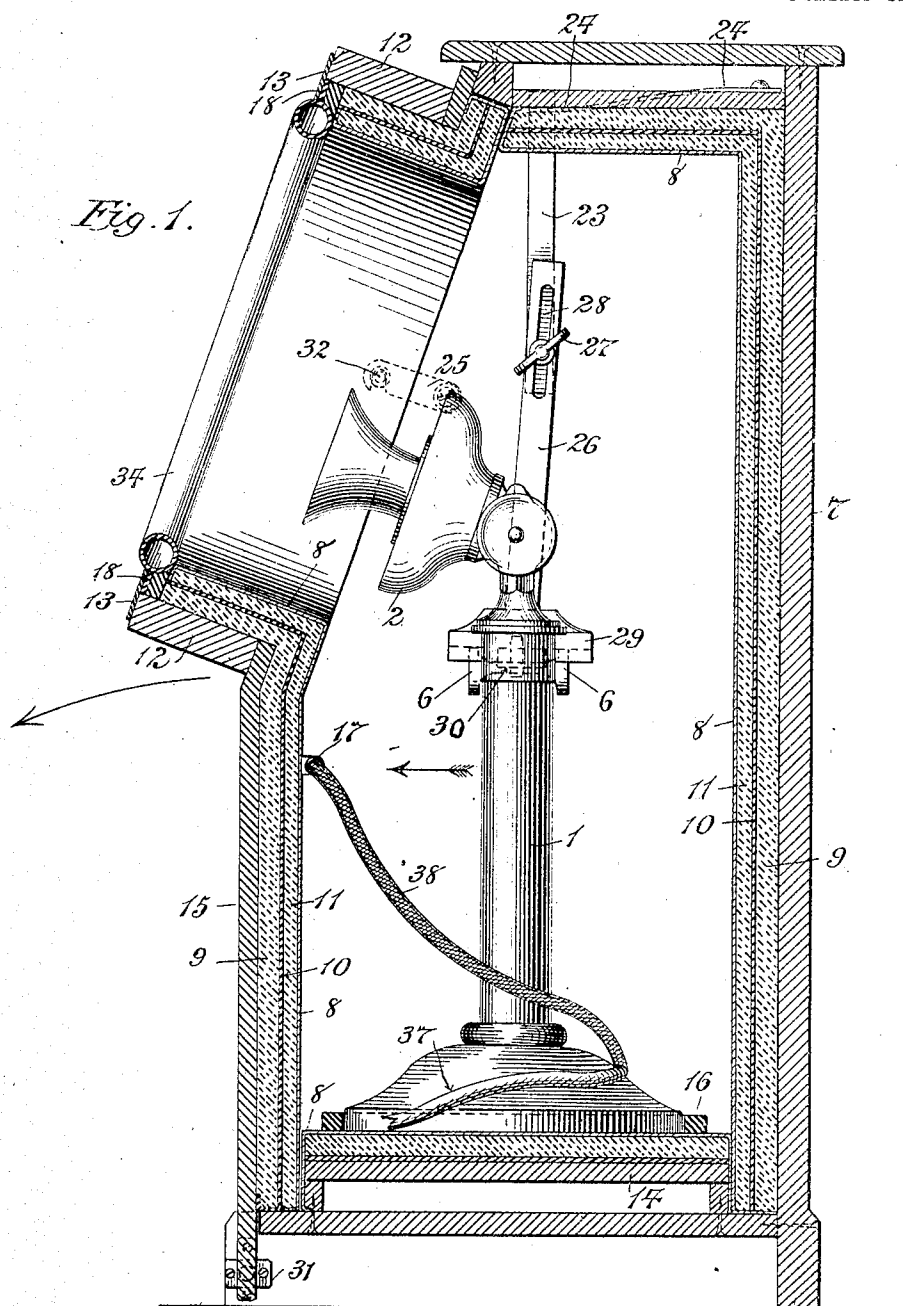


E. F. HUTTON & G. A. ELLIS, JR.
 APPLIANCE FOR USE WITH TELEPHONE TRANSMITTERS.
 APPLICATION FILED JUNE 20, 1908.

925,775.

Patented June 22, 1909.

2 SHEETS—SHEET 1.



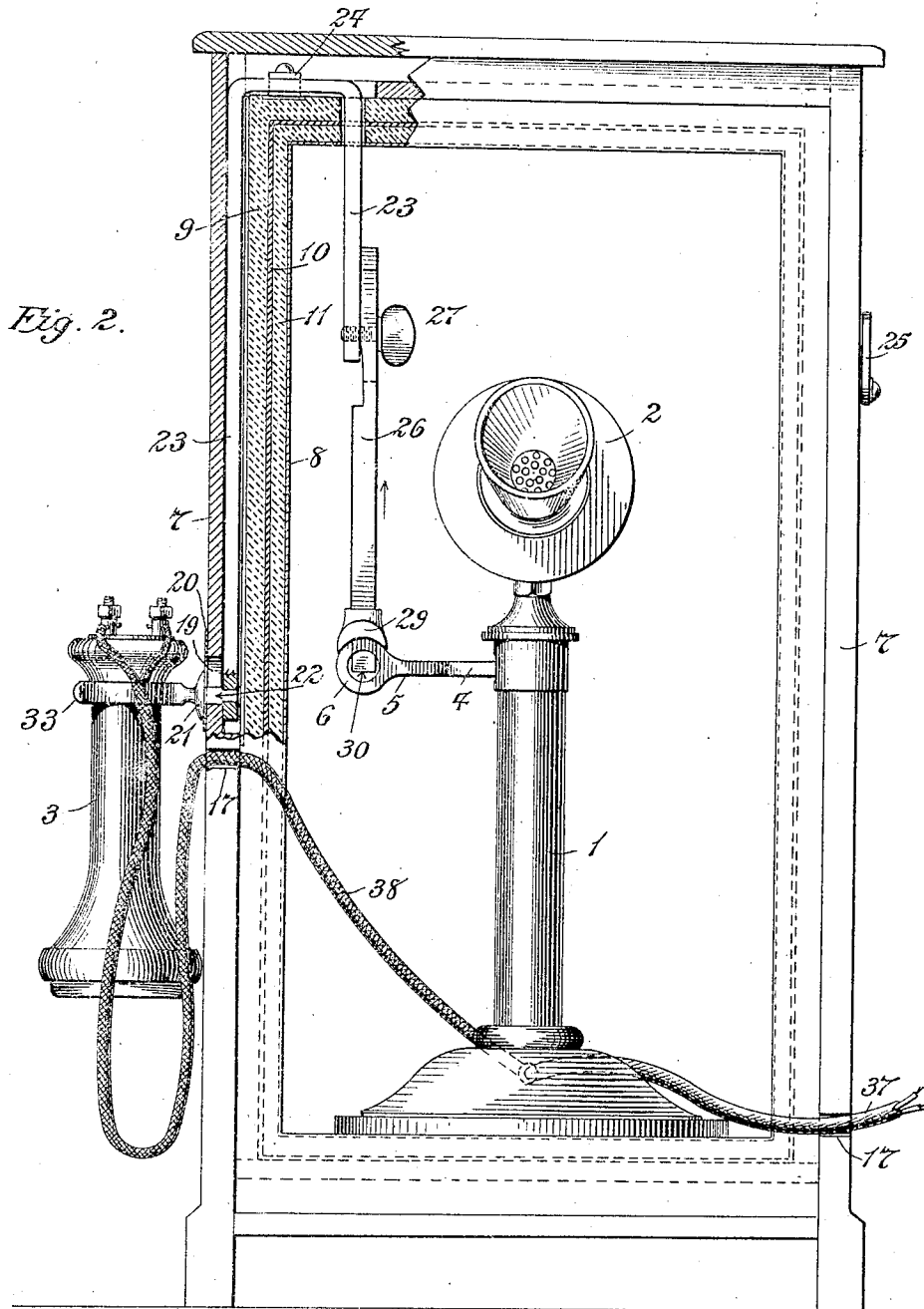
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 George A. Ellis Jr
 By Attorney.
 Charles J. Kintner

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UNITED STATES PATENT OFFICE.

EDWARD F. HUTTON, OF NEW YORK, AND GEORGE A. ELLIS, JR., OF BAY SHORE, NEW YORK.
ASSIGNORS TO THE MINIATURE TELEPHONE BOOTH CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

APPLIANCE FOR USE WITH TELEPHONE-TRANSMITTERS.

No. 925,775.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed June 20, 1908. Serial No. 439,575.

To all whom it may concern:

Be it known that we, EDWARD F. HUTTON and GEORGE A. ELLIS, Jr., citizens of the United States, and residents, respectively, of New York, borough of Manhattan, county and State of New York, and of Bay Shore, county of Suffolk, Long Island, State of New York, have made a new and useful Invention in Appliances for Use with Telephone-Transmitters, of which the following is a specification.

Our invention is directed to improvements in appliances for enabling the users of telephones to hold conversation with other subscribers in such manner that persons in the same room where the transmitter is located will not hear any part of the conversation, and particularly to an improvement upon an apparatus of this nature disclosed in an application for a patent filed in the U. S. Patent Office by Orrin H. Goodrich, on the 4th day of January, 1908, Serial No. 409,327.

Our invention will be fully understood by referring to the accompanying drawings, in which,

Figure 1 is a vertical sectional view thereof taken through the center of Fig. 2, the telephone transmitter and its switching attachments and the flexible conductors being shown in side elevational view, the means of fastening the door of the box being shown in dotted lines. Fig. 2 is a front elevational view as seen looking at Fig. 1 from left to right upon the supposition that the inclosing door of the box or casing has been removed, the upper left-hand portion of said inclosing box being shown in broken section; the transmitter, the receiver, the flexible conductors for the receiver, and the operative switching connections being shown in elevational view.

The before-mentioned application discloses a box or casing for inclosing the transmitter of a portable or desk telephone, said box being lined interiorly with a sound absorbing medium, such as felt, and provided also with means for securing the transmitter directly to the bottom and the back of the box interiorly, the arrangement being such that the transmitter is removed bodily with

the bottom by the withdrawal of screws; mechanically actuated switching connections being also connected with the box in such manner that the receiver of the outfit may be suspended upon a fork exterior to the box and perform the functions of cutting in the transmitter and cutting out the call circuit, or vice versa, in the usual way. The transmitter is supported in such manner that the mouth piece thereof is located substantially in alinement with a facial opening at one side near the upper end of the box, said opening having the contour of the lower portion of a person's face and provided with an expansible tube, preferably of rubber filled with air, the arrangement being such that when the face of the person is inserted in the facial opening and the receiver removed from the exterior hook conversation may be held with another outlying subscriber and such conversation not heard by persons in the same room where the transmission is being effected. The invention thus disclosed is of such a nature that the transmitter and its interconnected switching mechanism can only be removed by unscrewing the bottom of the box, disconnecting the conductors running to the transmission circuit, the receiver and the call circuit, thereby occasioning much inconvenience to such persons as are called upon to examine and repair apparatus of this nature.

The present invention has for its objects—First, the simplification of the apparatus disclosed in the before-mentioned application to such an extent as to permit of the entire transmitter of a portable or desk telephone and its interconnected switching mechanism and the receiver and the interconnecting flexible conductors being bodily removed or taken away from the casing without necessitating the removal of practically permanent parts, such as screws, holding devices, binding posts, etc. Second, to provide means whereby the subscriber or any authorized person may use the inclosing box or casing without being subjected to the annoyance of having his hat displaced or removed from his head, as was the case with

the before-mentioned box in the above-named application. Third, to provide means whereby the interior of the box shall be of such a nature that it is not liable to constitute a harbor for disease germs, and also that it may be thoroughly cleansed with soap and water or subjected to antiseptic treatment without danger of the liquid or liquids used in such cases being absorbed by the sound absorbing material which constitutes the lining of the box.

Referring now to the drawings in detail, 1 represents the standard, 2 the transmitter, 3 the receiver, 4 the circuit changing lever, and 5, 6 the circuit changing forks of a well known form of portable or desk telephone, 37 and 38 being the double or duplex flexible conductors insulated from each other and provided with the usual braided covering.

7 represents the inclosing box or casing preferably of wood and of suitable dimensions to wholly inclose the transmitter and its associated parts, as shown.

9 and 11 represent relatively thick sheets of sound absorbing medium, such as felt, separated from each other by a lining 10 of thin sheet rubber, leather, or the like, three of the inner walls and the top and bottom thereof being thus lined, and not substantially different from the like parts disclosed in the before-mentioned application.

8 represents a thin lining secured to the inner surface of the lining 11 and made preferably of some water resisting material, such as celluloid, hard rubber, mica, or the like, said lining being for the purpose, as before stated, of giving to the interior of the box the best antiseptic conditions and for enabling the same to be cleansed or washed at will.

15 represents a door hinged to the box proper at its lower end by hinges 31, and adapted to close the entire front of the box, said door being provided as shown with similar linings 8, 9, 10 and 11, to those of the interior walls of the box.

12 is an elliptical extension secured to the outer surface of the door and having at its outer end a facial opening, corresponding to the contour of the lower portion of a person's face, in the inner surface of which is secured by a flange 18 and metal ring 13 a flexible facial tube 34 identically like that disclosed in the before-mentioned application, the function of this elliptical extension 12 being to remove the facial opening to such a distance from the body of the box proper and the top thereof that when a person is talking there will be no danger of having his hat disturbed by coming into contact with the front face of the inclosing box or casing. Such an extension also makes it possible to more effectually adjust the pivoted transmitter 2 with relation to the mouth of the speaker by

increasing the distance between the transmitter and the point of facial support. It will be noted that this facial extension 12 is lined interiorly as were the inner walls of the box 7 and the door 15. These features constitute important elements of our improvement.

14 represents a supplemental bottom of the box held above the bottom proper so as to constitute an air chamber, a similar air chamber being shown at the top thereof, said chamber being adapted to further aid in the insulation of the sound waves.

16 is a metal ring having substantially the contour of the base of the portable or desk telephone set and adapted to detachably secure the same in the manner shown.

17, 17 are notches located in the front edges of the sides of the box, their function being to permit of the insertion of the conductors 37, 38 in such manner as to hold them in position when the door is closed, as shown in Fig. 1.

19 is an oblong slot in one side of the box and 20 is a metallic face plate similarly slotted and secured thereto.

21 is a circuit changing arm provided with forks 33, 33 similar to the forks 5 and 6, and 22 is a cylindrical extension adapted to move vertically in the slot 19 in the side of the box, said cylindrical extension being connected directly to a vertical sliding yoke 23, the upper end of which is sustained directly by a leaf spring 24 at the top of the casing. To the lower end of the inner part of the yoke 23 is secured an extension 26 by a set-screw 27 extending through a slot 28 for adjusting its vertical height, these parts constituting the interconnecting switching means being substantially like similar parts disclosed in the before-mentioned application. The lower end of the extension 26 is provided with a cross-arm 29 curved on its under surface to correspond with the curvature of the two ends of the fork 6, 6, 30 being a central extension passing downward between said forks, the arrangement being such that when the telephone receiver 3 is held in position on the exterior forks 33, the weight thereof is sufficient to cut out the transmitter circuit and include the bell circuit in the usual way.

25, 25 are hooks pivotally secured near the front edges of the box 7 and adapted to secure the door in closely locked position through the agency of two pins 32, 32 on the lateral edges thereof, the entire arrangement being such that when the door is thus closed the mouth of the transmitter 2 is in alignment with that portion of the facial opening which makes it possible for a user to talk directly into said transmitter with his face firmly held against the flexible tube 34 so that by no possibility can there be any ex-

terior transmission of the sound waves, other than those intended for conveying the conversation to the outlying subscriber.

It will be apparent that when it becomes necessary to inspect or repair the telephone on the usual visit of an inspector it is only necessary to release the hooks 25, 25 and turn the door upon its hinges 31, 31 in the direction of the curved tailless arrow on the left of Fig. 1, when the entire transmitter may be lifted bodily the forks 6 rotated from under the ends of the cross-arm 29, and removed wholly from the interior of the box in the direction of the tailed arrow; a like action with the other hand removing the receiver 3 so that the box or casing and its attachments and the telephone are thus absolutely separated from each other with a minimum effort and without any inconvenience whatever to the inspector. With such an arrangement, therefore, we are enabled to place at the hands of a subscriber a secret telephone box or casing which adapts itself for use in offices or in public places where secret transmission is important and this without in any way interfering with the functions of the employees of the lessors. It is also apparent that such an inclosing box or casing makes it possible for the user to take the transmitter out of the casing, hang the receiver 3 upon the fork 6 and replace the two wholly inside the box or casing, after which the door 15 may be locked in any preferred way so as to prevent unauthorized persons from using the instrument, thus constituting a valuable feature for preventing unauthorized calls and at the same time wholly protecting the complete outfit from damage, such as often occurs with portable or desk telephones where employees in cleaning offices sometimes carelessly knock them over and seriously damage the parts.

We do not limit our invention to the special details of construction hereinbefore described and illustrated in the accompanying drawings, as a number of the features might be departed from to a certain extent and still come within the scope of our claims hereinafter made. We believe it is broadly new with us to devise a secret telephone box or casing for a portable or desk telephone set which permits of the instantaneous removal or detachment of the complete outfit from interconnection with the box without necessitating the removal of screws or relatively permanent fixtures, and our claims are to be construed as of the most generic nature in this respect.

Having thus described our invention what we claim and desire to secure by Letters Patent of the United States is—

1. A telephone box or casing having means for detachably securing a portable telephone

set therein; a door secured thereto and a facial opening in the door, substantially as 65 described.

2. A telephone box or casing for inclosing a portable or desk telephone, said box being provided with a tubular extension and a facial opening located at the outer end thereof and having substantially the contour of the lower portion of a person's face, substantially as described. 70

3. A telephone box or casing for inclosing a portable or desk telephone transmitter, said box having a door and a facial opening therein; in combination with flexible or yielding means secured therein and adapted to yieldingly surround the lower part of a person's face when talking into the transmitter, substantially as described. 80

4. A telephone box or casing having means for detachably securing a portable telephone set therein; a door secured thereto and a facial opening in the door, said box or casing having a sound absorbing lining and an interior lining which is water-proof, substantially as described. 85

5. A telephone box or casing having means for detachably securing a portable telephone set therein; a door secured thereto, and a facial opening in the door, said box or casing being provided with two linings, one of which is a non-absorbent of sound and the other a non-absorbent of liquids, substantially as described. 95

6. A telephone box or casing having means for detachably securing a portable telephone set therein; a door secured thereto and a facial opening in the door; means exterior to the box for yieldingly supporting the receiver; together with interconnections between said means and the switching devices of the set, whereby the usual switching results may be effected when the receiver is outside the box, said box being provided with a plurality of linings, the inner one of which is a non-absorbent of liquids, substantially as described. 100

7. A box or casing for a portable telephone set having means for detachably securing the base of the set to the inside bottom of the box; an opening of sufficient area to permit of the ready removal of the transmitter and its operative connections, and a door for closing said opening; together with a facial opening in the door located in front of the transmitter mouth piece, and means for securing the door in closed position, substantially as described. 110 115 120

8. A box or casing for a portable telephone set having means for detachably securing the base of the set to the inside bottom of the box; an opening of sufficient area to permit of the ready removal of the transmitter and the interconnected switching appliances; a 125

door for closing said opening; a facial opening in said door located opposite the transmitter mouth piece; means exterior to the box for yieldingly supporting the receiver and mechanical connections between said means and the switching devices of the set for effecting the proper circuit changes when the receiver is hung up or removed, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

EDWARD F. HUTTON.
GEORGE A. ELLIS, JR.

Witnesses:

C. J. KINTNER,
M. F. KEATING.