

H. L. BURRHUS.
TELEPHONE HOOD.

APPLICATION FILED DEC. 20, 1907.

908,444.

Patented Jan. 5, 1909.

2 SHEETS—SHEET 1.

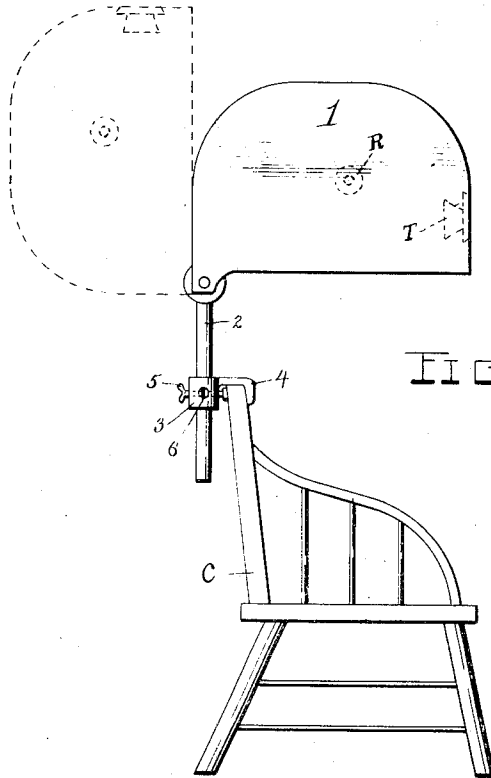


FIG. 1.

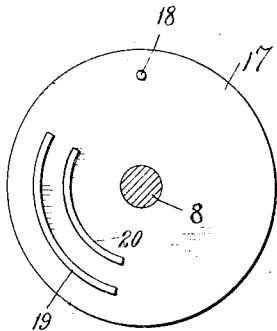


FIG. 4.

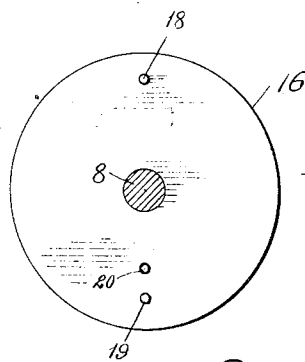


FIG. 5.

Witnesses

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2 SHEETS—SHEET 2.

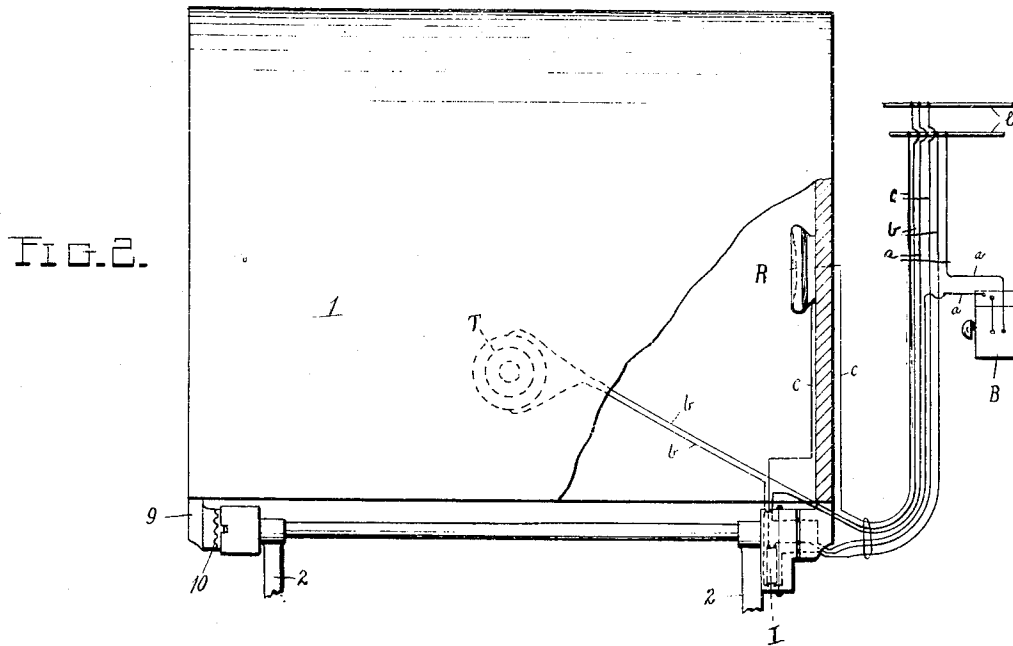
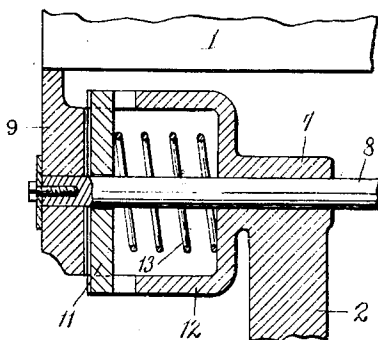


Fig. 6.

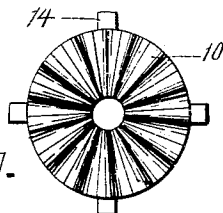


FIG. 7.

Witnesses

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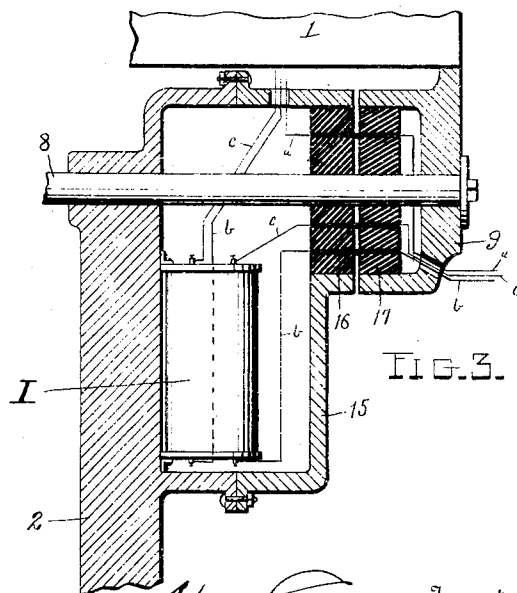


FIG. 3.

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UNITED STATES PATENT OFFICE.

HARRY LOUIS BURRHUS, OF HORNELL, NEW YORK.

TELEPHONE-HOOD.

No. 908,444.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed December 20, 1907. Serial No. 407,330.

To all whom it may concern:

Be it known that I, HARRY LOUIS BURRHUS, a citizen of the United States, residing at Hornell, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Telephone-Hoods, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in telephone hoods.

One object of the invention is to provide a simple and practical device of this character which may be readily applied to a chair, wall, or other support so that it can be lowered over the head of a person using the telephone, so as to exclude extraneous noises and enable a telephone conversation to be carried on in a noisy room or shop.

Another object of the invention is to provide a device of this character with the telephone apparatus arranged therein and with its switch controlled by the movement of the hood.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a view illustrating the application of my invention to a chair, the two positions of the hood being indicated in full and dotted lines; Fig. 2 is a front elevation of the hood, the circuit of the telephone apparatus being diagrammatically illustrated; Fig. 3 is a sectional view, on an enlarged scale, through the switch; Figs. 4 and 5 are detail views of the two co-acting members of the switch; Fig. 6 is a detail sectional view through the spring device for holding the hood in an adjusted position; and Fig. 7 is a detail view of the corrugated disk or plate of said spring device.

The invention comprises a light box like hood 1 of rectangular or other form provided with an open bottom and having one of its sides hingedly mounted so that it can be swung to either the horizontal or vertical position shown in Fig. 1. Said hood may be hinged or pivoted upon wall brackets or any other suitable supports but in the preferred embodiment of the invention illustrated in the drawings it is carried by two upright rods or supports 2 capable of being attached to the back of a chair C or any other suitable sup-

porting structure by means of clamps 3. Said clamps have jaws 4 to engage the chair back and are provided with clamping screws 5 for retaining the jaws in engagement with the same. Said clamps 3 are apertured to slidably receive supports 2 and the latter are adjustably retained therein by set screws 6. By making the clamps adjustable upon the supports 2 the hood may be raised or lowered with respect to the chair to accommodate persons of different stature. At the upper ends of the supports 2 are formed bearings 7 for a connecting shaft 8 which serves as a pivot for the hood and carries the same by reason of the attachment of its ends to ears or brackets 9 provided upon the hood at its lower rear side.

In order to retain the hood in its horizontal and vertical positions or in any intermediate angular position I provide the tension device shown more clearly in Fig. 6 of the drawings. This device consists in forming upon the inner face of one of the ears 9 an annular series of radially extending corrugations 10 which are engaged by similar corrugations upon the opposing face of a disk or plate 11 loosely arranged on the shaft 8 between said ear 9 and a recessed enlargement or casing 12 provided upon the bearing 7 at the upper end of one of the supports 2 and adapted to contain a coil spring 13. The latter surrounds the shaft and presses the disk 11 against the corrugations 10 on the ear or bracket 9 so that the hood will be frictionally retained in any position to which it may be turned. The disk or plate 11 may be prevented from rotating in any suitable manner but as shown it is provided with lugs or fingers 14 to enter seats or recesses in the casing or enlargement 12. It will be understood that the strength of the spring 13 is such that the two corrugated members 9, 11 will be pressed together with sufficient force to support the weight of the hood but at the same time the latter may be readily swung upon its pivot.

I preferably, but not necessarily, arrange the receiver and transmitter of the telephone within the hood and have its usual switch controlled by the swinging movement of the hood. The transmitter T is arranged upon the inner face of the front of the hood and the receiver R is arranged upon the inner face of one end, preferably the left hand end of the same, so that when the hood is lowered over the head of a person occupying the

chair, said parts will be properly positioned for use. The induction coil I of the telephone apparatus is preferably arranged in a box or casing 15 arranged upon the upper end of one of the supports 2 as more clearly shown in Fig. 3. The usual call bell B may be mounted upon the hood, its support, or at any other suitable or convenient point.

The switch for controlling the bell and other circuits of the telephone is arranged in one of the pivots or hinges for the hood and is illustrated in Figs. 3, 4, and 5 of the drawings. It comprises two contact carrying members 16, 17 of non-conducting material arranged respectively in the casing 15 and in the adjacent ear or bracket 9. These parts carry three co-acting pairs of contact points 18, 19, 20 for the bell circuit, the transmitter circuit and the receiver circuit, respectively. The contacts 18 upon both members are in the form of circular buttons or points which are so disposed that they will always be in contact with each other when the hood is in its vertical position and consequently the bell circuit will always be closed when the hood is so arranged and will be cut out the instant said hood is moved downwardly. The contacts 19, 20 on the member 16 are also in the form of circular buttons or pins but their co-acting contacts on the member 17 are in the form of segmental or arc shaped strips so that the transmitter and receiver circuits completed through said co-acting contacts will be closed during the movement of the hood through a considerable extent of its path of movement and consequently said circuits will be closed when the hood is lowered to its horizontal position or in any intermediate angular position. This arrangement of the contacts enables a person to use the telephone with the hood partially lowered so that he can carry on a conversation with another party standing near by. The contacts 19, 20 are so arranged upon said members with respect to the contacts 18 that when the latter separate to cut out the bell the contacts 19, 20 on the member 17 move into contact with their co-acting contacts on the member 16, thus throwing in the transmitter and receiver circuits.

The bell circuit is indicated by the letter *a* and includes the main line wires *l*, the bell mechanism B, and the contacts 18. The transmitter circuit is indicated by the letter *b* and includes the main line wires *l*, the contacts 19, the primary of the induction coil I and the transmitter T. The receiver circuit is indicated by the letter *c* and includes the main line wires *l*, the contacts 20, the secondary of the induction coil I and the receiver R.

In operation, when it is desired to use the telephone the party sits in the chair C and pulls the hood 1 down over his head to bring the transmitter in front of his mouth and the

receiver R opposite his left ear. When the hood is lowered the bell will be cut out and the transmitter and receiver cut into the line circuit owing to the arrangement of the contacts 18, 19, 20 of the switch. When the hood is swung to a vertical position the receiver and transmitter will be cut out and the bell will be thrown into the line circuit.

From the foregoing it will be seen that the provision of the hood enables a telephone conversation to be satisfactorily carried on in a shop, office, or other noisy room since the hood when lowered over the speaker's head will effectually exclude extraneous sounds and noises. The arrangement of the telephone within the hood and the automatic control of its switch by reason of the movement of the hood renders the device exceedingly convenient in use.

While I have shown and described in detail the preferred embodiment of the invention I wish it understood that I do not limit myself to the precise showing set forth and that various changes in the form, proportion and minor details may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention what I claim is:

1. In a device of the character described, the combination of a hood, a telephone receiver arranged upon the inner face of one wall of the hood, a telephone transmitter arranged upon the inner face of one of the adjacent walls of the hood and means for raising and lowering the hood over the head of a person using the telephone.

2. In a device of the character described, the combination of a hood, a telephone receiver arranged upon the inner face of one wall of the hood, a telephone transmitter arranged upon the inner face of one of the adjacent walls of the hood, and means for pivotally mounting the hood to permit it to be swung down over the head of a person using the telephone.

3. In a device of the character described, the combination of a swinging hood, telephone apparatus arranged therein and carried thereby, and a telephone switch controlled by the swinging movement of the hood.

4. In a device of the character described, the combination of a vertically movable hood, telephone apparatus arranged therein and carried thereby and a telephone switch controlled by the movement of the hood.

5. In a device of the character described, the combination of a hood of substantially rectangular form pivotally mounted for vertical swinging movement, a telephone transmitter arranged upon the inner face of one wall of the hood and a telephone receiver arranged upon the inner face of one of the adjacent walls of the same.

6. In a device of the character described, the combination of a hood, a telephone set arranged therein and carried thereby, a pivot for the hood, a bearing for the pivot and a switch having its contact members carried by said bearing and said pivot.

7. In a device of the character described, the combination of a hood, a pivot for the latter, a bearing for the pivot, a telephone transmitter and receiver arranged within the hood and carried thereby, a telephone bell mechanism, electric circuits for the latter, the transmitter and the receiver, and a switch for controlling said circuits and having co-acting contact members carried by said bearing and said pivot.

8. In a device of the character described, the combination of a swinging hood movable from a horizontal to a vertical position, a telephone set arranged within and carried by the hood, a telephone bell circuit controlled by the movement of the hood and normally closed when the latter is vertical and telephone receiver and transmitter circuits controlled by the movement of the hood and normally closed when the latter is horizontal or in an intermediate angular position.

9. In a device of the character described, the combination of a support, means for attaching it to a chair or the like, a hood pivotally mounted upon the support and telephone apparatus arranged in and carried by the hood.

10. In a device of the character described, the combination of a support, an attaching clamp adjustable upon the same, a hood pivoted upon the support and a telephone set arranged within and carried by the hood.

11. In a device of the character described, the combination of supporting rods having bearings, a shaft arranged in the latter, a box-like hood mounted upon said supports, a tension device for retaining the hood in an adjusted position, a telephone transmitter and receiver arranged within the hood, a

telephone bell mechanism, circuits for the latter, the transmitter and the receiver and a switch for controlling said circuits operated by the movement of the hood.

12. In a device of the character described, the combination of a support, a shaft arranged therein, a swinging hood fixed to said shaft, a telephone set arranged within and carried by the hood, the member 12 concentric with the shaft and provided with guide openings, the two corrugated members 10, 11, one being carried by the hood and shaft and the other being adapted to slide longitudinally on the shaft and having projections to enter the guide openings in the member 12, and the coil spring within the member 12 for actuating the member 10.

13. In a device of the character described, the combination of a rigid support, a movable hood pivoted to said support for vertical swinging movement, and a telephone set arranged within and carried by said hood.

14. In a device of the character described, the combination of a movable hood, a telephone set arranged within and carried thereby and a telephone switch controlled by the movement of the hood.

15. In a device of the character described, the combination of an adjustably mounted support, a vertically swinging hood carried by said support, and a telephone set arranged within and carried by said hood.

16. In a device of the character described, the combination of a support provided with a bearing, a swinging hood having a pivot arranged in said bearing, a telephone switch having its members carried by said bearing and said pivot, and a telephone set arranged within and carried by the hood.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HARRY LOUIS BURRHUS.

Witnesses:

S. J. HAUGHTON,
W. W. FRANKLIN.