No. 733,970. PATENTED JULY 21, 1903.

W. KAISLING.

TRANSMITTER ARM.

APPLICATION FILED APR. 6, 1903.

NO MODEL.

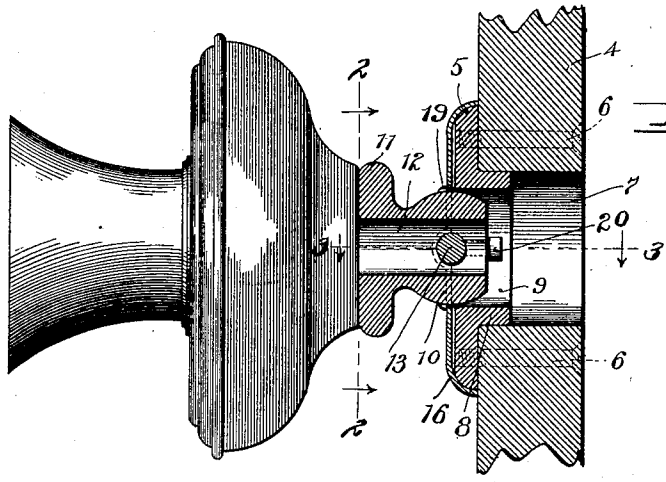


Fig. 1.

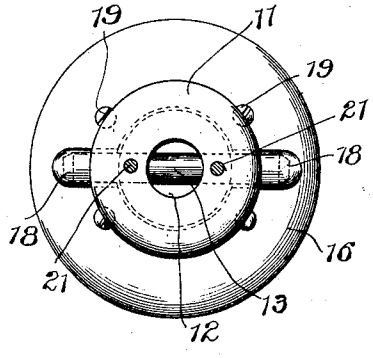


Fig. 2.

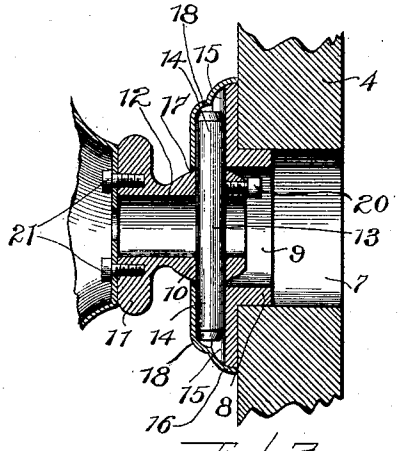


Fig. 3.

Witnesses.

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No. 733,970. Patented July 21, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM KAISLING, OF CHICAGO, ILLINOIS, ASSIGNOR TO STROMBERG-CARLSON TELEPHONE MANUFACTURING COMPANY, OF ROCHESTER, NEW YORK, A CORPORATION OF NEW YORK.

TRANSMITTER-ARM.

SPECIFICATION forming part of Letters Patent No. 733,970, dated July 21, 1903.

Application filed April 6, 1903. Serial No. 151,400. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM KAISLING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Transmitter-Arms, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to substation telephone apparatus, and particularly to a device to be employed for the purpose of adjustably mounting the telephone-transmitter upon the backboard of the telephone set.

Residence telephone sets are frequently mounted in a narrow passage-way, whereby the projecting parts of the set, such as the transmitter, are very subject to injury, due to knocks received from persons passing the instrument. It is desirable that the telephone-transmitter be adjustably mounted, so that by a suitable vertical movement its position can be adapted to the height of the person using the telephone.

I am aware that it has heretofore been proposed to mount the transmitter by means of a hinge-joint upon the backboard, whereby a swinging movement of the transmitter-arm permits the transmitter to be raised or lowered to any desired height within its range of movement; but such adjustable mounting means as have heretofore been employed have been of such length that the transmitter projects to an undesirably great distance from the backboard.

It is the principal object of my invention to provide a substantial swinging support for a telephone-transmitter which shall allow a comparatively large movement of the transmitter, but which at the same time shall not cause the transmitter to project an undesirably great distance from the backboard. I further provide means whereby the stiffness of the hinge-joint may be varied at will to suit the desires of the person using the telephone and to take up wear in the moving parts. My invention provides means for accomplishing these objects by the use of a device which is simple, compact, reliable in operation, and of low cost of manufacture.

My invention will be more clearly understood by reference to the accompanying drawings, in which—

Figure 1 illustrates a transmitter adjustably mounted upon a backboard by means of my improved device. Fig. 2 is a cross-sectional view taken on line 2 2 of Fig. 1 and illustrating in elevation my improved mounting mechanism. Fig. 3 is a central longitudinal cross-sectional view taken on line 3 3 of Fig. 1.

I have illustrated a backboard 4, to which the base-plate 5 is secured by means of the screws 6 6. A circular opening 7 is cut in the backboard for the reception of the cylindrical projection 8 on the back of the base-plate 5. A circular opening 9 in the base-plate provides for the reception of the spherical end portion 10 of the transmitter-mount 11, which, as illustrated, is preferably provided with an opening 12 for the accommodation of conductor-wires. (Not shown.) A hinge-pin 13 extends through the center of the spherical end portion 10, its projecting ends 14 14 resting in suitable bearings 15 15 in the front of the base-plate 5. A stamped spring-metal escutcheon-plate 16 is provided with an opening 17 to accommodate the spherical end portion 10 of the transmitter-mount and with stamped sockets 18 18, adapted to accommodate the projecting ends 14 14 of the hinge-pin. There is preferably a slight intervening space between the front side of the base-plate and the spring-metal escutcheon-plate, whereby the tension of the retaining-screws 19 19 may be varied to adjust the compression upon the hinge-pin 13. In order to prevent the turning of the transmitter-mount with respect to the hinge-pin 13, a set-screw 20 is provided. The transmitter-case may be secured to the front end of the transmitter-mount by the screws 21 21, as shown. The transmitter is thus mounted upon the backboard in such a manner that the mouthpiece may be swung through a large arc of movement to accommodate its use by persons of greatly differing heights. At the

same time the means of adjustable mounting is such that the transmitter projects but a comparatively small distance from the front of the backboard 4.

The device hereinbefore described also provides means whereby the compression of the hinge-pin 13 may be varied by means of the screws 19 19 to vary the stiffness of the hinge-joint as desired.

My invention further provides a transmitter-mounting of neat and pleasing appearance and one which cannot readily get out of order.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the class described, the combination with a backboard, of a base-plate secured thereto, a transmitter-mount having a spherical end portion received in a suitable opening in said base-plate, a hinge-pin passing through the center of said spherical end portion having hinged ends lying in suitable bearings in said base-plate, a spring-metal escutcheon-plate adapted to cover said base-plate and said hinge-pin and having an opening for the reception of said spherical end portion of the transmitter-mount, sockets formed in said spring-metal escutcheon-plate to accommodate the projecting ends of said hinge-pin, and screws for clamping said hinge-pin between said base-plate and said escutcheon-plate with an adjustable pressure.

2. In a device of the class described, the combination with a backboard, of a base-plate secured thereto, a transmitter-mount having a spherical end portion received in a suitable circular opening in said base-plate, a hinge-pin passing through the center of said spherical end portion, and clamped thereto by means of a set-screw, said hinge-pin having projecting ends lying in suitable bearings in said base-plate, a spring-metal escutcheon-plate adapted to cover said base-plate and said hinge-pin and having a circular opening for the reception of said spherical end portion of said transmitter-mount, sockets formed in said spring-metal escutcheon-plate to accommodate the projecting ends of said hinge-pin, there being a slight intervening space between the front side of said base-plate and said escutcheon-plate, and screws for clamping said hinge-pin between said base-plate and the sockets formed in said escutcheon-plate with an adjustable pressure, the distance from the front of the backboard to the axis of said hinge-pin being made comparatively small.

In witness whereof I hereunto subscribe my name this 29th day of March, A. D. 1903.

WILLIAM KAISLING.

Witnesses:
LYNN A. WILLIAMS,
HARVEY L. HANSON.