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H. L. KNIGHT & B. W. SWEET.

ADJUSTABLE SUPPORT FOR TELEPHONES.

APPLICATION FILED APR. 16, 1905.

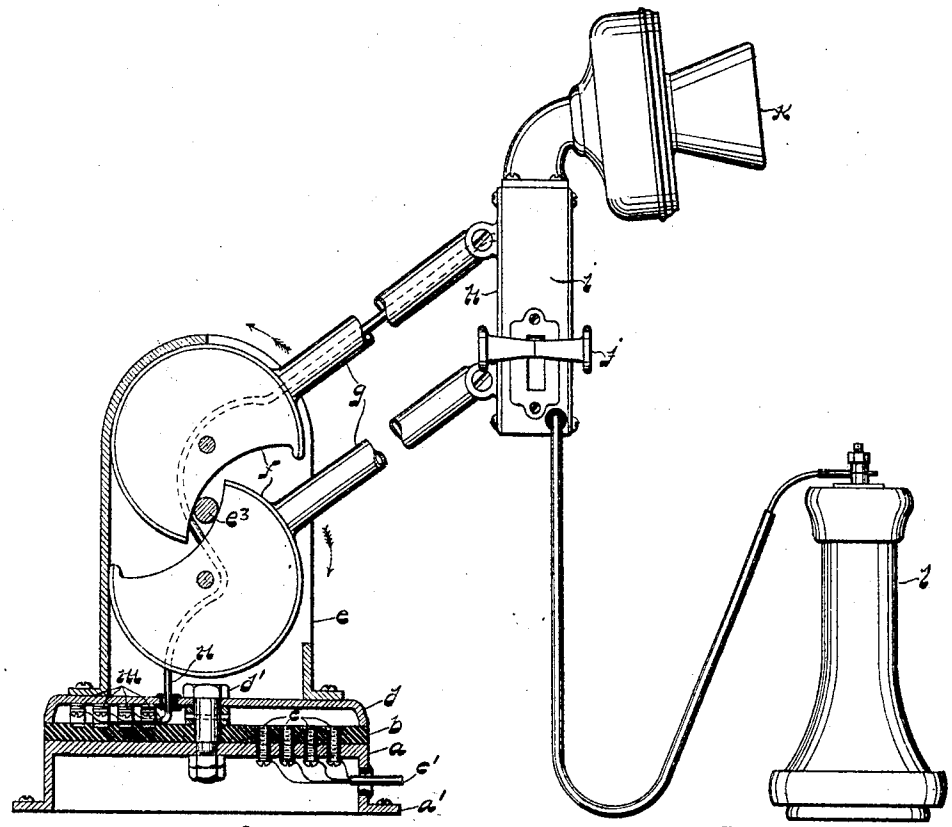

Fig. 1.

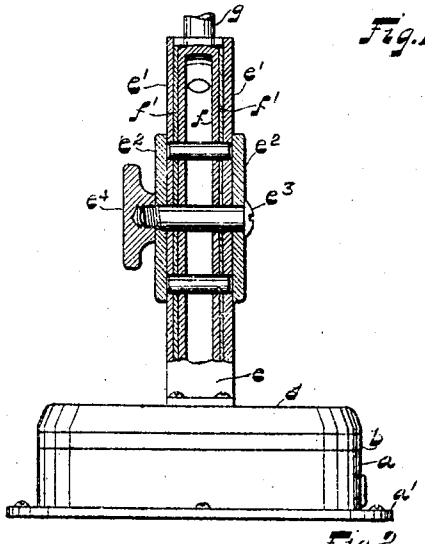

Fig. 2.

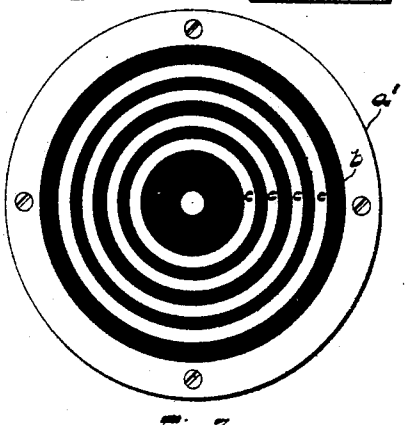

Fig. 3.

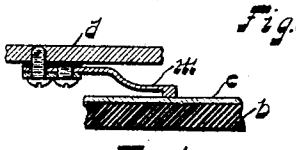

Fig. 4.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE SUPPORT FOR TELEPHONES.

No. 809,379. Specification of Letters Patent. Patented Jan. 9, 1906.

Application filed April 15, 1905. Serial No. 255,774.

To all whom it may concern:

Be it known that we, HERBERT L. KNIGHT and BURTON W. SWEET, citizens of the United States of America, and residents of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Adjustable Supports for Telephones, of which the following is a specification.

Our invention relates to improvements in adjustable supports for telephones, and has for its object the provision of means for carrying a transmitter, receiver, and associated switch or other mechanism, so that the telephone apparatus may be conveniently employed by the telephone-user while sitting at a desk or in a standing position, for example, and may be swung into any desired angular position without involving any chance injury to the connecting-cord or its electrical connections. The same means adapt the apparatus for swinging the telephone out of the way when not in use.

Our invention as embodied comprises parallel arms of any desired length, which are associated with pivotally-mounted friction-blocks and carry at their opposite extremities a supporting part for the telephone apparatus. The supporting mechanism for the friction-blocks preferably is also mounted upon a rotatable base portion which is equipped with contact-making apparatus, insuring the electrical continuity of the telephone-circuits with the associated external circuit.

The details of the preferred embodiment of our invention will be much more readily gathered by making reference to the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a view in elevation, partially broken away and in section, illustrating the telephone and its supporting apparatus. Fig. 2 is a vertical sectional view taken at right angles through the adjustable supporting part of said device, the base portion being shown in elevation. Fig. 3 is a plan view of the base proper with the rotatable supporting mechanism removed therefrom, and Fig. 4 is an enlarged detail showing one of the contact-making brushes and its annular contact part in section.

Throughout the figures we have indicated similar parts by the same character of reference in order to avoid any confusion in following the description thereof.

In the preferred embodiment, a may be a weighted base portion, but the same preferably is screwed down by means of fastening-screws passing through the flange a'. Carried upon said base is a fiber plate b, insulatingly mounting the concentric contact-rings c, which are respectively connected with the conductors of a four-way cord c'. Above the fiber plate is mounted the rotatable base portion d, secured in place by means of the pivot-bolt d'. Upon the said rotatable base portion d is mounted the clamping-standard e, comprising side plates e', which pivotally support friction-blocks f, adapted to rock in a vertical plane. The side plates are centrally reinforced by means of heavy straps e'', which are forcibly drawn together by means of a bolt and thumb-nut e^3 e^4. Between the side plates and the exterior faces of the friction-blocks we preferably provide fiber wearing-surfaces f', which are forcibly pressed against the friction-blocks and oppose their movement sufficiently to support the weight of the telephone in any of its angular positions of adjustment.

Extending from corresponding sides of the friction-blocks are the parallel arms g, which may be of any desired length. One of these at least should be tubular for the purpose of carrying the conducting-cord to the telephone. At the ends of these arms is mounted a telephone support or plate h, whereon the several parts of the telephone are carried. In this instance said part forms the rear wall of the casing i, inclosing the switch mechanism of a telephone-hook switch j. The transmitter k and receiver l will at once be recognized as completing the apparatus of a self-contained desk-telephone.

From the foregoing it will be obvious that the telephone is securely carried in any position of vertical adjustment by means of friction-blocks and the parallel supporting-arms. To aid in horizontal adjustment, the contact brushes and rings are provided. These brushes m respectively terminate the four conductors extending to the telephone apparatus through the channeled friction-blocks and upper supporting-arm, the cord n thus being neatly and securely carried within the device

in a manner to prevent its breakage or wear. As stated, the brushes *m* respectively bear upon the contact-rings *c* and serve to establish circuit between the telephone and the external conductors, affording service thereto. In consequence the device may also be rotated in horizontal planes upon pivot *d'* about the base *a*, thus insuring any adjustment desired.

It will be appreciated that the supporting plate or bracket *h* may take any suitable form for carrying the telephone apparatus and need not constitute a part of the casing.

Other changes in the precise apparatus shown may be made quite as readily and remain within the spirit of our invention.

Having described the preferred embodiment or type of our improvement, we claim as new, and desire to secure by these Letters Patent, the following:

1. In an adjustable support for a telephone, the combination with friction-blocks pivotally mounted in a vertical plane, means for opposing the movement thereof upon their pivotal mountings, supporting-arms extending from said friction-blocks, and a telephone-support carried by said supporting-arms in any desired position of vertical adjustment, substantially as set forth.

2. In an adjustable support for a telephone, the combination with friction-blocks pivotally mounted in a vertical plane, means for opposing the movement thereof upon their pivotal mountings, supporting-arms extending from said friction-blocks, a telephone-support carried by said supporting-arms in any desired position of vertical adjustment, a base portion, and a horizontally-adjustable mounting for the friction-blocks, whereby a supported telephone may be actuated into the desired positions of vertical and horizontal adjustment, substantially as set forth.

3. In an adjustable support for telephones, the combination with a stationary base portion, of a rotatable base portion pivotally mounted thereon, pivotally-mounted friction-blocks and means for opposing their rotation in vertical planes, supporting-arms carried by said friction-blocks, and a supporting plate or bracket mounted upon said arms for carrying the telephone, whereby said instrument is made adjustable in vertical and horizontal positions and is retained in place, substantially as set forth.

4. In an adjustable supporting device for telephones, the combination with rotatably-mounted friction-blocks, of side pieces bearing against the same and normally retaining said blocks against rotation, clamping means associated with said side pieces, parallel arms extending from said friction-blocks, and a bracket or supporting-plate for the telephone pivotally secured to the outer extremities of said supporting-arms whereon the telephone is adapted to be mounted, substantially as set forth.

5. The combination in an adjustable supporting device with a stationary base portion, of a pivotally-mounted carrying part thereon, two coacting friction-blocks pivotally supported upon the carrying part, friction-surfaces engaging the same, clamping means for forcibly engaging the latter with the friction-blocks, parallel supporting-arms extending from said friction-blocks, and a bracket or supporting-plate for a telephone instrument pivotally connected at the extremities of said supporting-arms, substantially as set forth.

Signed at Cleveland, Ohio, this 14th day of April, 1905.

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