HEAD SUPPORT FOR OPERATORS' INSTRUMENTS.
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Inventor:
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To which it may concern:

Be it known that I, FRANK G. DAVISON, of
Boston, in the county of Suffolk and
State of Massachusetts, have invented cer-
tain new and useful Improvements in Head
Supports for Operators' Instruments, of
which the following is a specification.

This invention relates to means for sup-
porting telephone receivers or the receivers
of wireless apparatus, upon the head of the
operator, and refers particularly to means
whereby the ear piece or pieces, or the re-
ceivers, may be adjusted or more closely
to the ears of the operator or swung away
therefrom without having to remove the
head piece. Devices of this character are
illustrated and described in Patents
1,087,704 and 1,183,383 granted to Adams- 
Randall.

The object of the present invention is to
provide improvements whereby the ear
piece or receiver will be automatically
locked in any position to which it is moved
or shifted, relatively to the head piece, so
that the ear piece or receiver may be held
more or less firmly against the ear of the
user, without risk of being pushed back
from its adjustment and whereby the ear
piece or receiver may be locked in outward-
ly swing position at such times as the op-
erator may desire.

To these ends my invention consists in
the improvements which I shall now pro-
ced to describe and claim.

Of the accompanying drawings, Figure
1 is a front elevation of a well-known form
of head piece, the same having two ear pieces
or receivers connected thereto by my im-
proved locking devices. Fig. 2 is an eleva-
tion from the right of Fig. 1. Fig. 3 is a
view of a portion of the device, illustrating
one of the adjustments.

Similar reference characters indicate simi-
lar parts in all the views.

The head piece illustrated in the drawings
includes a well-known form of resilient
band 12, having pads 13 to distribute pres-
sure against the sides of the head of the
operator. Adjustably constricted with each
end of the head piece band is a plate 14
having ears 15 engaging the edges of the
band 12 so that longitudinal adjustment
may be effected to vary the operative length
of the band to properly locate the receivers
relatively to the ears of the operator. As
the devices at each end of the band are the
same, and as either one may be entirely
omitted, the following description relating to
the mechanism at one end of the band is
to be supposed to apply to both.

Each plate 14 carries a pin 16 which may
be of any shape in cross-section, either round
or square or polygonal. The said pin pro-
jects through a slot 17 in the band 12, said
slot being provided to permit of the longitu-
dinal adjustment herebefore described.

The plate 14 is formed or provided with
ears 18 to which a lever 19 is pivotally con-
ected at 20. Secured to the lower end of
the lever 19 is a yoke 21 to which the ear
piece or receiver 22 is pivotally connected
as at 23.

A plate 24 which cooperates with the pin
16 as a clutch to positively hold the ear piece
in set position, as presently described, is
provided with a hole 25 (Fig. 2) which is
slightly larger than pin 16 which projects
through said hole. This clutch plate is piv-
ottally connected at 26 to the upper end
of lever 19, one member or the other having a
slot for the pivotal pin to permit the ear
piece or receiver to be shifted as indicated
by comparing the full line position of Figs.
1 and 3 and the dotted line position of Fig.
1. The clutch plate 24 has a top ear 27 and
two side ears 28 (Fig. 2). Preferably a
small stop pin 29 projects from the pin 16
near the inner end of the latter.

When the head piece is in position upon
the head of the operator, if the receiver is
not as close to the ear of the user as wanted,
an outward pull upon the top ear or finger
piece 27 will cause the clutch to swing out-
wardly along the pin and as soon as this
pulling operation ceases, the clutch plate
will instantly swing slightly so that the
walls of the hole 25 will bind upon the pin,
thus automatically and positively locking
the clutch plate and consequently locking
the lever or support 19 which carries the
ear piece or receiver. If it be desired to
swing the ear piece or receiver outwardly,
the operator simply pushes the clutch plate
inwardly along the pin preferably by pres-
sure exerted against the side ears or finger
pieces 28. The moment that this pressure
ceases, the clutch plate swings and again
binds on the pin to positively hold the ear
piece in its new position.

It will now be seen that I have provided
means whereby the support for the ear piece
or receiver may be automatically and posi-

UNITED STATES PATENT OFFICE.

FRANK G. DAVISON, OF BOSTON, MASSACHUSETTS.

HEAD-SUPPORT FOR OPERATORS' INSTRUMENTS.

1,182,896. Patentied May 16, 1916.

tively locked in adjusted position relatively to the head piece, thus securing the ear piece or receiver in a much more satisfactory manner than when friction is depended upon to hold said device.

3. A device of the character described, comprising a head piece, a support for an ear piece or receiver bodily movable laterally relatively to the head piece, and means for positively locking said support in adjusted position relatively to the head piece.

2. A device of the character described comprising a head piece, a support for an ear piece or receiver bodily movable laterally relatively to the head piece, and means for automatically and positively locking said support in adjusted position relatively to the head piece.

3. A device of the character described comprising a head piece, a support for an ear piece or receiver bodily movable laterally relatively to the head piece, and means for automatically and positively locking said support in adjusted position relatively to the head piece, means being provided whereby the holding means may be manually released when the support is to be shifted.

4. A device of the character described comprising a head piece, a support for an ear piece or receiver bodily movable laterally relatively to the head piece, and an automatic clutch for positively locking said support in adjusted position.

5. A device of the character described, comprising a head piece having a rigid pin, a clutch member having an aperture through which said pin passes, an ear piece or receiver, and connections between said ear piece or receiver and the clutch member.

6. A device of the character described comprising a head piece having a rigid pin projecting therefrom, a lever connected to said head piece carrying an ear piece or receiver, and a clutch connected with said lever and having an aperture for said pin.

7. A device of the character described comprising a head piece having a rigid pin projecting therefrom, a lever connected to said head piece carrying an ear piece or receiver, and a clutch connected with said lever and having an aperture for said pin, said clutch having means whereby it may be manually shifted longitudinally of the pin.

In testimony whereof I have affixed my signature.

FRANK G. DAVISON.