W. SHAKESPEARE, Jr. & W. SCHMID.

CONTROL DEVICE.

APPLICATION FILED APR. 17, 1917.

1,260,464. Patented Mar. 26, 1918.

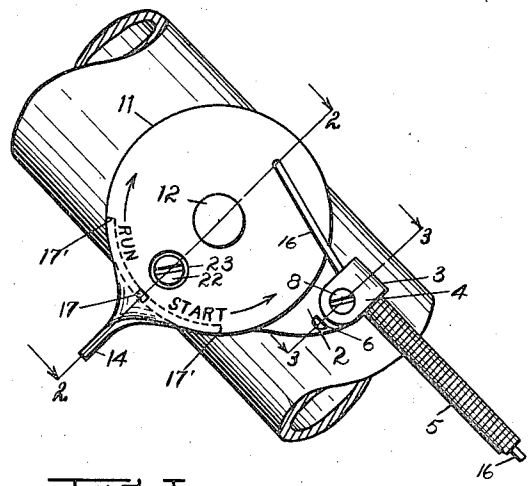


FIG. I

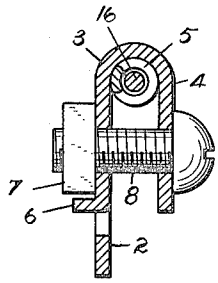


FIG. III

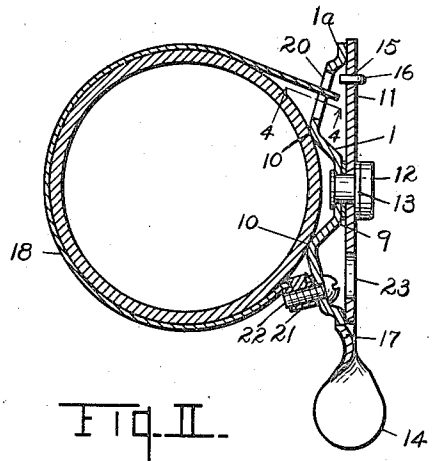


FIG. II

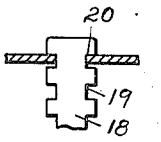


FIG. IV

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CONTROL DEVICE.

1,260,464. Specification of Letters Patent. Patented Mar. 26, 1918.

Application filed April 17, 1917. Serial No. 162,781.

To all whom it may concern:

Be it known that we, WILLIAM SHAKESPEARE, Jr., and WILLIAM SCHMID, citizens of the United States, residing at the city and county of Kalamazoo, State of Michigan, have invented certain new and useful Improvements in Control Devices, of which the following is a specification.

This invention relates to improvements in control devices.

Our improved control device is especially designed by us for use in operating priming devices for internal combustion engines and we have shown our improvements in the form in which we have embodied them for that purpose although they are capable and advantageous for use in other relations.

The main objects of this invention are:

First, to provide an improved control device which may be conveniently mounted on the steering post of an automobile.

Second, to provide an improved control device which is simple and compact in structure and very convenient to operate.

Third, to provide an improved control device in which the adjusting lever is held in its adjusted positions by friction, and in which the means for adjusting the securing strap are readily accessible without removing any of the other parts of the structure.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

We accomplish the objects of our invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of our invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which:

Figure I is a side elevation of a portion of a steering post showing our improved control device secured thereto.

Fig. II is an enlarged detail section taken on a line corresponding to line 2—2 of Fig. I.

Fig. III is an enlarged detail section on a line corresponding to line 3—3 of Fig. I.

Fig. IV is an enlarged detail section on a line corresponding to line 4—4 of Fig. II, showing the details of the adjustment for the securing strap.

In the drawing similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the reference character 1 indicates a cup-shaped base plate provided with a flange-like rim 1^a. The base plate is substantially circular in plan except that it is provided with a laterally extending bracket 2 having an extension 3 which is folded upon itself at 4 to provide a clamp for receiving the end of the sheath 5 of a "Bowden" cable.

The lug 6 is stamped from the extension 2 and turned outwardly to form a lock for the nut 7 of the bolt 8 which draws or clamps the portions of the clamp upon the sheath. The base plate is provided with a transverse channel, the bottom 9 of which is flattened; the edges 10 of the channel forming a double line contact or seat for the steering post.

The disk-like face plate or control lever 11, is pivotally mounted upon the flattened bottom of the raised channel by means of a rivet 12, a fiber friction washer 13 being interposed between the face plate and the head of the rivet. The flange of the base plate and the edge of the control lever are in frictional engagement and tend to hold the control lever in any of its adjusted positions. If desired, these fiber washers may be omitted.

The face plate is provided with an integral projection forming a finger piece 14 and with an aperture 15 which pivotally receives the end of the reciprocable wire 16 of the "Bowden" cable.

A lug 17 punched from the face plate cooperates with the limiting stops 17′ formed in the rim of the base plate to limit the motion of the face plate or control lever in either direction.

Our improved control device is secured to the steering post by means of a strap 18, one end of which is provided with a series of spaced notches 19 at the edges thereof, the sides of which notches are adapted to engage the sides of the slot 20 formed in the base plate. The opposite end of the strap 18 is provided with a threaded sleeve 21, which is secured to the base plate by means of the screw 22. The head of the screw is

accessible through the hole 23 in the face plate.

The free end of the "Bowden" cable is adapted to be secured to the priming device or other device which it is desired to adjust and hold in its adjusted position.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:

1. In a structure of the class described, the combination of a cupped base plate having a flange-like rim with a peripheral notch therein providing stops and a transverse channel providing a support seat, said base plate being provided with an integral laterally extending bracket folded upon itself to provide a clamp, a bolt disposed through the arms of said clamp, said bracket being provided with an integral nut-engaging lug, a disk-like control lever constituting a face plate provided with an integral extension at one edge having a quarter twist therein providing a finger piece and an integral stop coacting with said stops of said base plate, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, there being a friction washer disposed on said pivot between its head and said face plate, a "Bowden" cable, the sheath of which is secured in said clamp and the reciprocable member of which is connected to said lever, and means for securing said base plate to a support comprising a strap one end of which is attached by a screw disposed through the base plate, said lever being provided with an aperture through which the screw may be manipulated.

2. In a structure of the class described, the combination of a cupped base plate having a flange-like rim and a transverse channel providing a support seat, said base plate being provided with an integral laterally extending bracket folded upon itself to provide a clamp, a bolt disposed through the arms of said clamp, a disk-like control lever constituting a face plate provided with a finger piece, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, there being a friction washer disposed on said pivot between its head and said face plate, a "Bowden" cable the sheath of which is secured in said clamp and the reciprocable member of which is connected to said lever, and means for securing said base plate to a support comprising a strap one end of which is attached by a screw disposed through the base plate, said lever being provided with an aperture through which the screw may be manipulated.

3. In a structure of the class described, the combination of a cupped base plate having a flange-like rim with a peripheral notch therein providing stops and a transverse channel providing a support seat, said base plate being provided with an integral laterally extending bracket folded upon itself to provide a clamp, a bolt disposed through the arms of said clamp, said bracket being provided with an integral nut engaging lug, a disk-like control lever constituting a face plate provided with an integral extension at one side having a quarter twist therein providing a finger piece and an integral stop coacting with said stops of said base plate, and a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, there being friction washers disposed on said pivot between said base plate and lever and between the head of the pivot and said lever.

4. In a structure of the class described, the combination of a cupped base plate having a flange-like rim and a transverse channel providing a support seat, said base plate being provided with an integral laterally extending bracket folded upon itself to provide a clamp, a bolt disposed through the arms of said clamp, a disk-like control lever constituting a face plate provided with a finger piece, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, there being a friction washer disposed on said pivot between its head and said face plate.

5. In a structure of the class described, the combination of a cupped base plate having a flange-like rim with a peripheral notch therein providing stops and a transverse channel providing a support seat, said base plate being provided with an integral laterally extending bracket folded upon itself to provide a clamp, a bolt disposed through the arms of said clamp, said bracket being provided with an integral nut engaging lug, a disk-like control lever constituting a face plate provided with an integral extension at one edge having a quarter twist therein providing a finger piece and an integral stop coacting with said stops of said base plate, and a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate.

6. In a structure of the class described, the combination of a cupped base plate having a flange-like rim and a transverse channel providing a support seat, said base plate being provided with a laterally extending bracket folded upon itself to provide a clamp, a disk-like control lever constituting a face plate, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, there being

a friction washer disposed on said pivot between its head and said face plate, a "Bowden" cable the sheath of which is secured in said clamp and the reciprocable member of which is connected to said lever.

7. In a structure of the class described, the combination of a cupped base plate having a flange-like rim and a transverse channel providing a support seat, said base plate being provided with a laterally extending bracket, a disk-like control lever constituting a face plate, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate and a "Bowden" cable the sheath of which is secured to said bracket, and the reciprocable member of which is connected to said lever.

8. In a structure of the class described, the combination of a cupped base plate having a flange-like rim and a transverse channel providing a support seat, said base plate being provided with a laterally extending bracket folded upon itself to provide a clamp, a disk-like control lever constituting a face plate, a pivot for said lever disposed through the raised portion of said base plate, said lever having frictional engagement with the rim of said base plate, and a "Bowden" cable the sheath of which is secured in said clamp and the reciprocable member of which is connected to said lever.

9. In a structure of the class described, the combination of a cupped base plate provided with a laterally extending bracket, a disk-like control lever constituting a face plate, a pivot for said lever disposed through said base plate, said lever having frictional engagement with the rim of said base plate, and a "Bowden" cable the sheath of which is secured to said bracket and the reciprocable member of which is connected to said lever.

10. In a structure of the class described, the combination of a base plate provided with a laterally extending bracket, a control lever constituting a face plate, a pivot for said lever disposed through said base plate, said lever having frictional engagement with the edge of said base plate, and a "Bowden" cable the sheath of which is secured to said bracket and the reciprocable member of which is connected to said lever.

In witness whereof, we have hereunto set our hands and seals in the presence of two witnesses.

WILLIAM SHAKESPEARE, JR. [L. S.]
WILLIAM SCHMID. [L. S.]

Witnesses:
MARGARET L. GLASGOW,
MARTHA J. GREGORY.