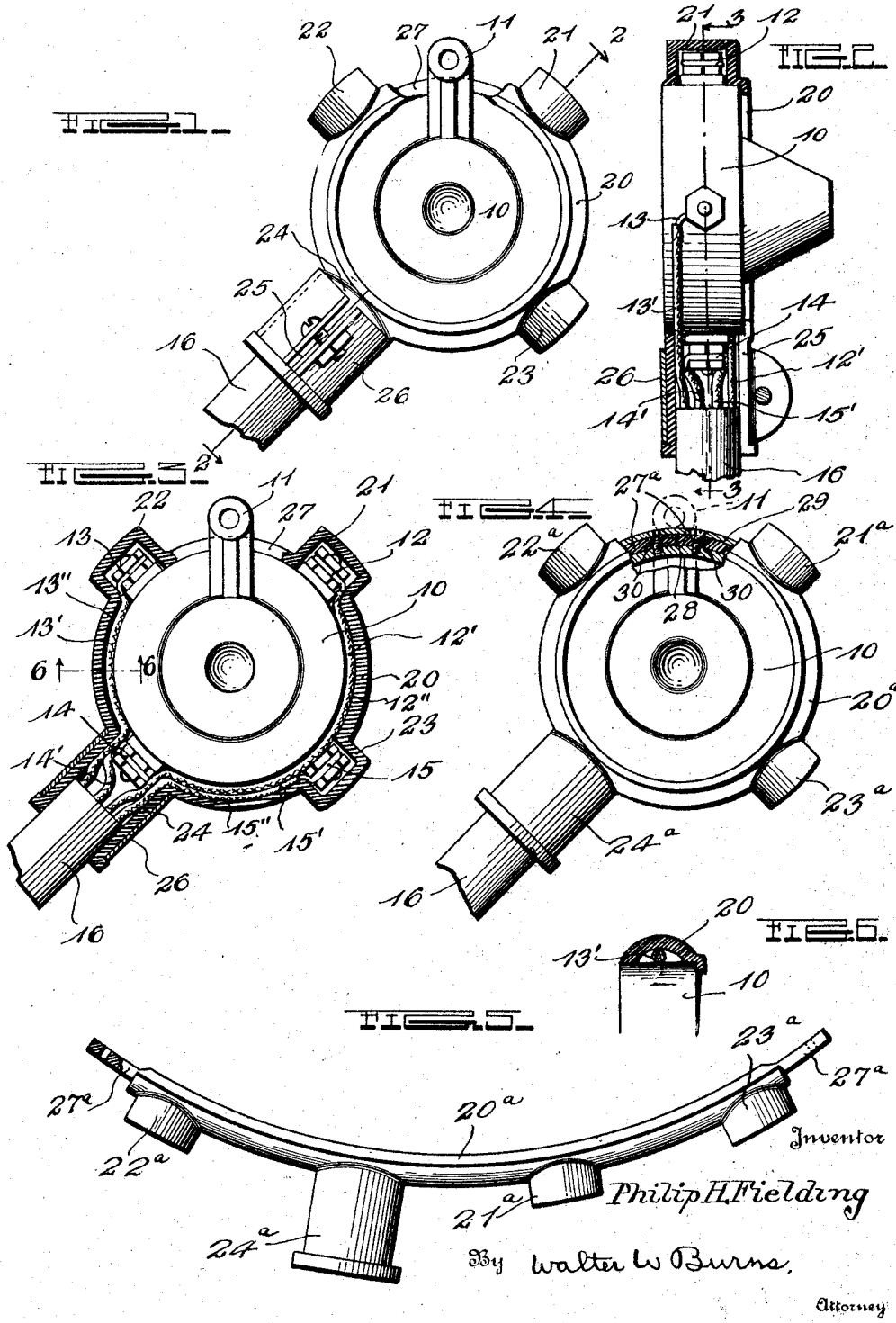
Aug. 14, 1923. 1,464,757

P. H. FIELDING

TIMER COVER

Filed Dec. 20, 1921



Patented Aug. 14, 1923. 1,464,757

UNITED STATES PATENT OFFICE.

PHILIP H. FIELDING, OF SOUTH NORWALK, CONNECTICUT.

TIMER COVER.

Application filed December 20, 1921. Serial No. 523,686.

To all whom it may concern:

Be it known that I, PHILIP H. FIELDING, residing at South Norwalk, county of Fairfield, State of Connecticut, a citizen of the United States, have invented certain new and useful Improvements in Timer Covers, of which the following is a specification.

This invention relates to covers for timers and the like and particularly to those timers having terminals exposed to dirt, oil, water, moisture or corrosive vapors.

The primary object of my invention is to provide a device for covering the terminals of an electrical device as a timer in such a manner as to lessen the liability of the terminals becoming short circuited or grounded by the contact therewith of dirt, oil, water, vapor or other foreign substances.

Another object of my invention is the provision of such a cover for the terminals that a resilient pressure is maintained between the edge of the timer cover and the timer, thereby substantially maintaining a water tight cover for the terminals.

A further object of my invention is the provision of a flexible water proof cover for terminals of timers and the like which can easily be installed and removed.

Referring to the drawing where preferred embodiments of my invention are illustrated,

Figure 1 is an elevational view of a timer body having my invention installed thereon.

Figure 2 is a partial cross section on the line 2—2 of Figure 1.

Figure 3 is a cross sectional view taken on the line 3—3 of Figure 2.

Figure 4 is an elevation, partly in section, of a modified form of my invention.

Figure 5 is a view of the cover shown in Fig. 4 in its open position.

Figure 6 is a fragmental cross sectional view on the line 6—6 of Fig. 3.

Like reference characters refer to similar parts throughout the several views.

10 designates a timer having a perforated arm 11 which is connected to a rod (not shown) which controls the degree of spark advance of an internal combustion motor. The timer is provided with terminals 12, 13, 14 and 15, one for each cylinder of the motor. The respective terminals are connected to their spark plugs in the end of the corresponding cylinders by wires 12′, 13′, 14′ and 15′. These wires pass from the timer through the conduits 12″, 13″ and 15″ to the cable 16 and thence to their proper connections.

Referring now particularly to Figures 1, 2 and 3, 20 designates the body portion of my cover for the timer terminals and is preferably made of soft rubber or some similar material. Enlarged portions 21, 22 and 23 are provided and have recesses to receive the terminals 12, 13 and 15, respectively. A cylindrical cable receiving member 24, integral with, and of the same material as the body portion 20, is provided to receive the cable 16 and is here shown as being spaced so as to be adjacent the terminal 14 to receive the same when in position.

In the form shown in Figures 1 to 3, I have shown a split in the cable receiving member as at 25 (Fig. 1) and a clamp 26 is provided to hold the two portions of the cable receiving member together and against the cable.

A portion 27 of the body portion 20 lying adjacent the arm 11 may be made thinner than the other portions of the cover, since it does not contain any conduits for holding the wires. This portion is made narrower than the other portions to clear the arm 11.

In practice, I prefer to construct the body portion 20 slightly shorter than the outer circumference of the timer in order that when it is put in place, it will be stretched and consequently will make a water tight fit with the timer.

In Figures 4 and 5, where a modified form of my invention is illustrated, the parts 20^a, 21^a, 22^a and 23^a correspond to the similar parts 20, 21, 22 and 23 of Figs. 1, 2 and 3. The part 24^a differs from the part 24 in that its halves are made integral.

The modification shown in Figs. 4 and 5 may be made like that shown in Figs. 1 to 3, but made in a solid piece circumferentially. I have, however, illustrated it as having a joint, as at 28 held in place by a clamp 29. This clamp 29 is in turn held in place by screws 30.

In installing my invention, as illustrated in Figures 1 to 3, the flexible cover is applied, and at the same time slightly stretched. The ends of the cylindrical portion 24 are brought together around the cable 16. The clamp 26 is then applied.

In installing the form illustrated in Figs. 4 and 5, the cable 16 and its wires are passed through the cylindrical portion 24^a after

which the wires are connected to the respective terminals 12, 13, 14 and 15. The body portion 20^a is then put in place under tension and the clamp 29 applied to the ends 27^a of the thin portion. The screws 30 are then put in place to hold the timer cover in place.

If the modification shown in Figs. 4 and 5 is made in a solid piece circumferentially, in the form of a closed ring, the cable 16 and its wires are passed through the cylindrical portion 24^a, after which the wires are connected to the respective terminals. The body portion is then forced down to position and is thereby slightly stretched, the tension and friction holding it in place.

Although I have described embodiments of my invention in detail, I desire to have it understood that I do not limit myself to the exact construction shown and described and that modifications and changes may be made without departing from the spirit of the invention and within the scope of the appended claims.

Having described my invention, what I claim is:

1. A terminal cover for timers comprising a soft flexible body portion, the body portion comprising a band portion to substantially surround the outer periphery of the timer and having spaces to receive the timer terminals.

2. A terminal cover for timers comprising a soft flexible body portion, the body portion comprising a band portion to substantially surround the outer periphery of the timer and having spaces to receive the terminals and spaces for the lead wires leading to the terminals.

3. A terminal cover for timers comprising a soft flexible body portion, the body portion having spaced enlarged hollow portions adjacent the corresponding positions of the terminals of a timer and to cover the latter, the body portion having also an opening to receive the lead wires and spaces for holding the lead wires and connecting the opening and the hollow portions.

4. A terminal cover for timers comprising a flexible body portion, the body portion having spaces to receive the timer terminals, and spaces for the lead wires leading to the terminals, and a cylindrical portion to receive a cable carrying the lead wires to the terminals.

5. A terminal cover for timers comprising a body portion, the body portion having spaced enlarged hollow portions adjacent the corresponding positions of the terminals of a timer and to cover the latter, the body portion having also an opening to receive the lead wires and spaces for holding the lead wires and connecting the opening and the hollow portions, the body portion terminating in two semi-cylindrical complementary members in a position to enclose one of the timer terminals and a portion of the cable carrying the terminal lead wires.

In testimony whereof I hereunto affix my signature.

PHILIP H. FIELDING.