

No. 840,182.

PATENTED JAN. 1, 1907.

H. C. WIRT.
PENDENT SWITCH.
APPLICATION FILED AUG. 3, 1903.

Fig. 1.

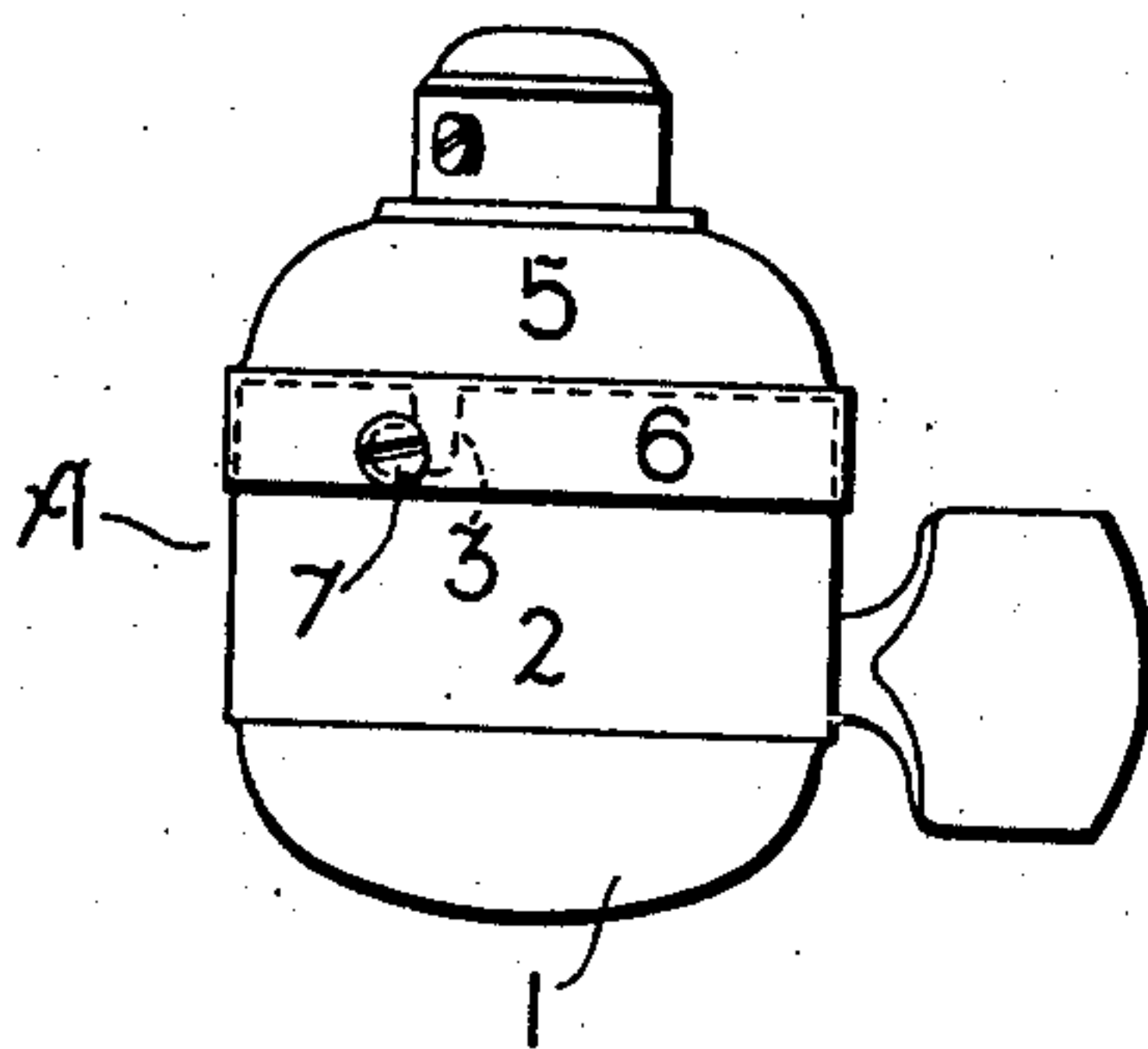


Fig. 2.

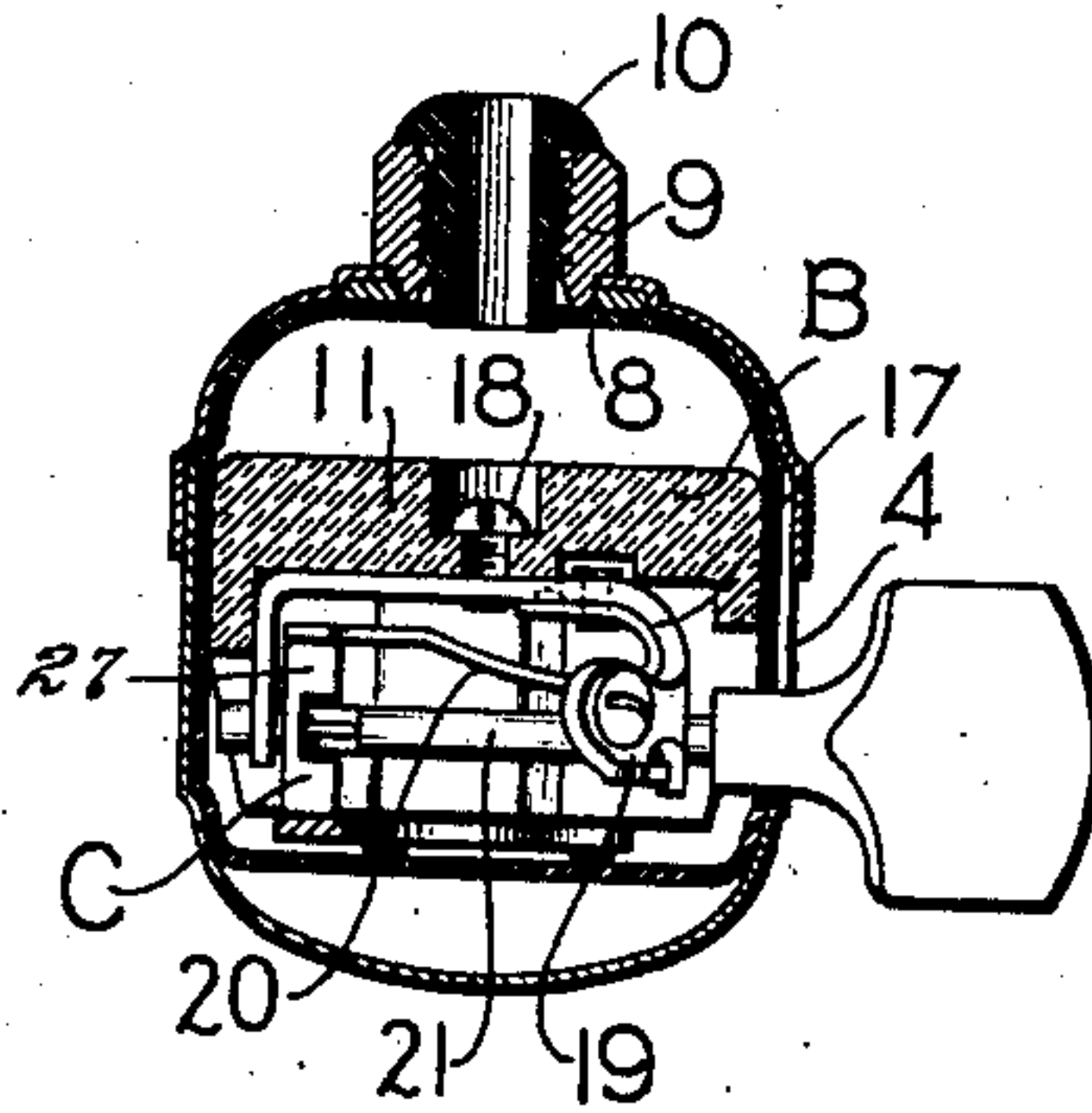


Fig. 3.

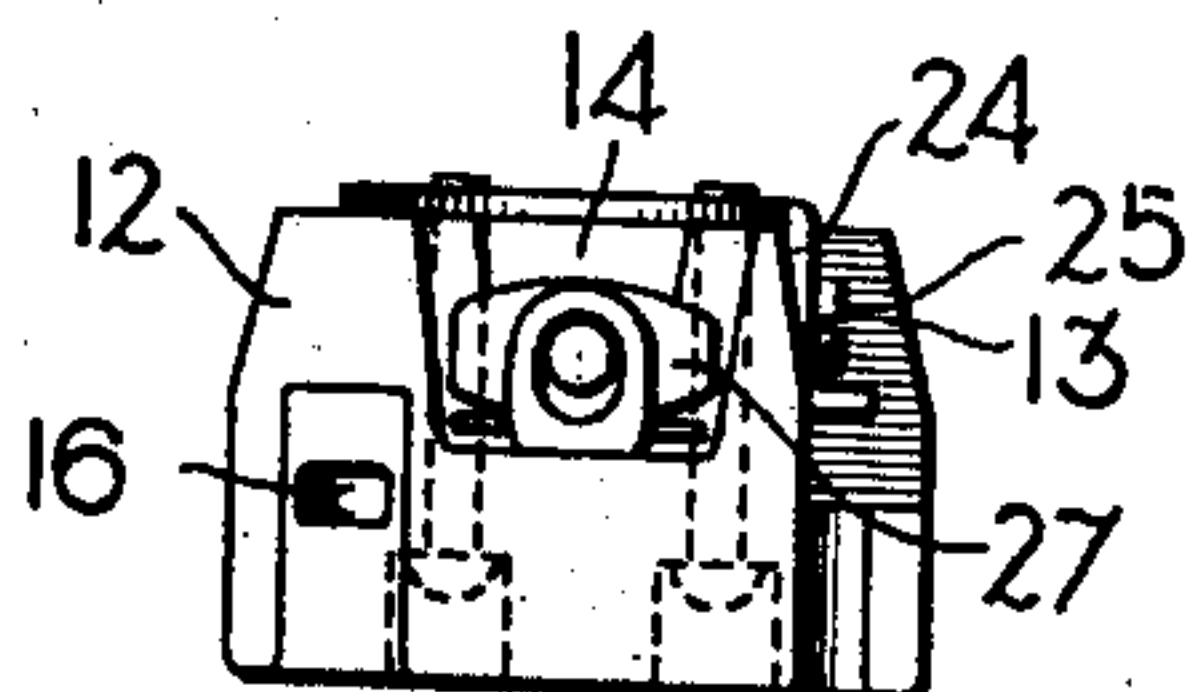
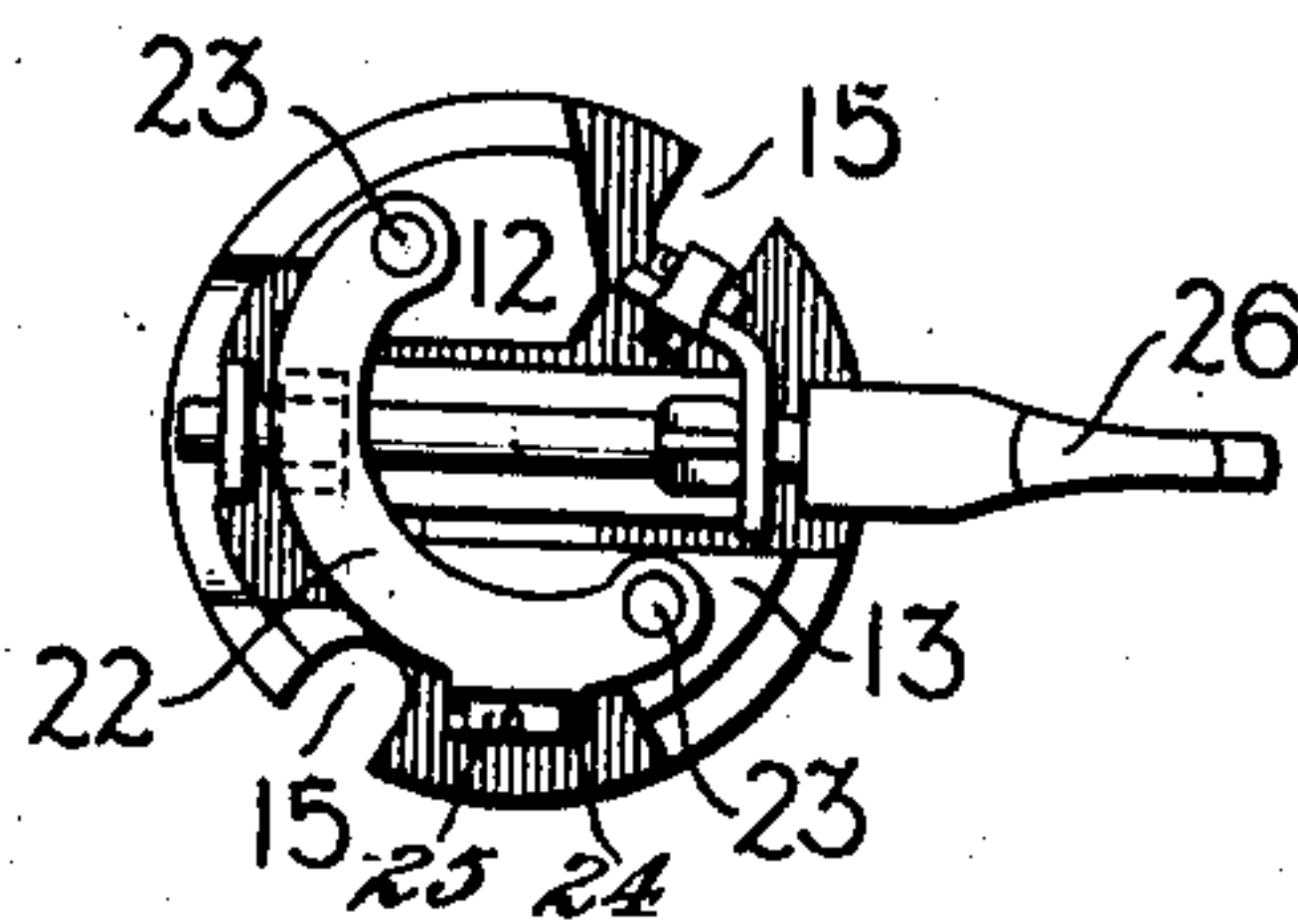


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

HERBERT C. WIRT, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

PENDENT SWITCH.

No. 840,182.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed August 3, 1903. Serial No. 167,956.

To all whom it may concern:

Be it known that I, HERBERT C. WIRT, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Pendent Switches, of which the following is a specification.

The present invention relates to electric cut-out devices, and more particularly to the class of cut-outs known as "pendent switches," and has for its object to provide a compact and highly-efficient switch of this class which shall consist of few and simple parts and be of low cost of manufacture.

The invention will be readily understood by reference to the following description and the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of a complete pendent switch embodying my invention. Fig. 2 is an axial section of the shell and insulating parts, with the switch mechanism proper shown in side elevation. Fig. 3 is a left-hand elevation of the insulating-base and the parts carried thereby, and Fig. 4 is a plan view of the same.

The switch comprises a two-part inclosing shell A of nearly spherical shape provided with an insulating-lining and a bushed aperture, through which pass the circuit-conductors in the usual manner, an insulating single-piece base B, supported within the shell and provided with binding-posts to which the ends of the conductors may be attached, and a rotary switch mechanism C, whereby the circuit may be opened and closed between the respective binding-posts. The lower cup-shaped section of the shell A is made of sheet metal, with a spherically-shaped bottom part 1 joining a cylindrical side part 2, having in its upper edge small bayonet-slots 3 and a larger slot 4 for the switch-shaft to pass through. The upper section is also made of sheet metal, with a spherically-shaped upper part 5 joining a cylindrical side part 6 of less width than the corresponding part 2 of the lower section and having a slightly larger diameter, whereby it is adapted to telescope therewith. The cylindrical side part 6 is provided with screw-holes for the reception of the screws 7, which engage the bayonet-slots 3 of the lower section and recesses in the base B, whereby the several parts may be locked in fixed relation. The

spherical upper part 5 has an axial aperture 8, in which is secured a metallic sleeve 9, having its inner surface screw-threaded for the reception of an insulating-bush 10, having an axial aperture for the passage therethrough of the conductors, to which the switch is attached.

The base B is made of porcelain or other suitable insulating material and in the shape of a disk 11, with two projections 12 and 13 from one surface on opposite sides of a diameter, with a channel 14 between them for the reception of the switch-shaft, and in the periphery of the disk 11 are formed two notches 15 for the passage of the branch conductors and two recesses 16 for engagement with the inner ends of the screws 7. The outer ends of the projections 12 and 13 are surfaced in a plane parallel to the surface of the disk 11, and extending longitudinally through each projection is a screw-hole.

In the channel 14, between the projections 12 and 13, is located a yoke-shaped bracket 17, which is secured therein by a screw 18 passing axially through the disk 11 and engaging a tapped hole in the bracket 17. The bracket 17 is provided with a binding-post 19, a flat contact-spring 20, and bearings in both of its arms, in which the switch-shaft 21 is journaled.

To the outer ends of the projections 12 and 13 is secured a C-shaped metallic contact 22 by means of screws 23 extending through the base B and engaging tapped holes in the contact. The contact 22 bridges the space between the projections 12 and 13 and is provided at one edge with a bent arm 24, having a binding-post 25 thereon. The switch-shaft 21 is provided at its outer end with an insulating thumb-piece 26 and at the other end with an oblong switch-block 27, adapted when turned in one position to engage and make electrical connection between the contact-spring 20 and the C-shaped contact 22 and when turned in another position to break the circuit between said parts.

I do not desire to be restricted to the particular construction or form of parts shown and described herein, for it is apparent that they may be changed and modified without departing from my invention.

What I claim as new, and desire to secure by Letters Patent of the United States, is—
1. In an electric switch, the combination

of an insulating-base comprising a body part and two integral projections from one face thereof, a stationary metallic contact secured to said base between said projections and provided with a binding-post, an integrally-connected binding-post and metallic contact spanning the space between said projections and secured to the outer ends thereof, and a rotary switch-block and actuating-shaft therefor journaled between said projections and adapted to electrically connect said stationary contacts.

2. In an electric switch, the combination of an insulating-base comprising a circular body part and two integral projections from one face thereof, a stationary metallic contact secured to said base between said projections and provided with a binding-post, a C-shaped metallic contact having thereon an integral binding-post bent up at right angles and secured to the outer ends of said projections across the space between them, a rotary switch-block adapted to engage said sta-

tionary contacts, and an actuating-shaft therefor journaled between said projections. 25

3. In an electric switch, the combination of an insulating-base comprising a circular body part and two integral projections from one face thereof on opposite sides of a diameter, a metallic bracket secured to said base between said projections and provided with a binding-post and a stationary spring-contact, a C-shaped contact having an integral binding-post bent up at right angles and secured to the outer ends of said projections across the space between them, a switch-shaft journaled in said bracket, and a rotary contact-block mounted upon said shaft and adapted to engage said stationary contacts. 35

In witness whereof I have hereunto set my hand this 1st day of August, 1903. 40

HERBERT C. WIRT.

Witnesses:

BENJAMIN B. HULL,
HELEN ORFORD.