

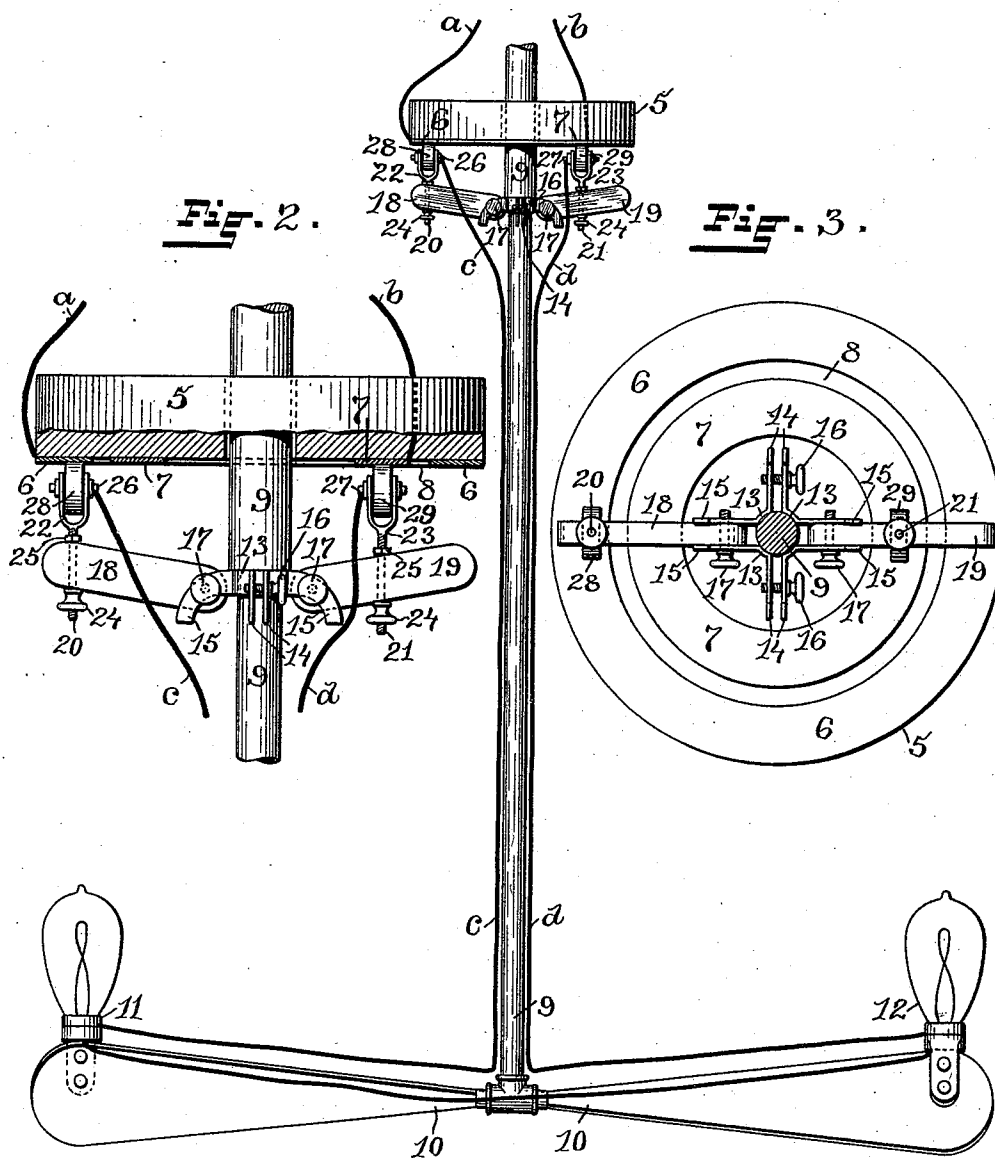
(No Model.)

J. W. CURRY.
ROTATABLE ELECTRIC CONTACTOR.

No. 529,898.

Patented Nov. 27, 1894.

Fig. 1.



WITNESSES:

Henry J. Miller
Chas. H. Luther Jr.

INVENTOR:

John W. Curry.
Joseph A. Miller & Co.
Attys

UNITED STATES PATENT OFFICE.

JOHN W. CURRY, OF CAIRO, ILLINOIS.

ROTATABLE ELECTRIC CONTACTOR.

SPECIFICATION forming part of Letters Patent No. 529,898, dated November 27, 1894.

Application filed July 9, 1894. Serial No. 516,945. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. CURRY, of Cairo, in the county of Alexander and State of Illinois, have invented certain new and useful Improvements in Rotatable Electric Contactors; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in rotatable electric contactors.

The object of the invention is to so construct an electrical contact device that electrical connections may be maintained between the arms of a main circuit, ending in stationary contact plates, and the arms of a local circuit, mounted on a rotatable device, in a more perfect manner than heretofore.

The invention consists in the combination with fixed circular contact plates connected with the respective arms of the main circuit, of a rotatable mechanism provided with the peculiar adjustable insulating arms carrying contact wheels bearing on the circular contacts and in electrical connection with devices carried by the rotatable mechanism.

The invention also consists in such other novel features of construction and combination of parts as may hereinafter be more fully described and pointed out in the claims.

Figure 1 represents a view of the improved electric contactor shown in connection with a rotatable fan carrying electric lamps with which it is desired to maintain electric connection. Fig. 2 represents a similar enlarged view partially in section. Fig. 3 represents a plan view of the contactor.

Similar numbers and letters of reference designate corresponding parts throughout the views.

In the drawings 5 indicates a base plate formed of insulating material and having a central bearing. This base is adapted to be secured to any suitable support of ordinary construction. In the construction shown in the drawings it is designed to be secured to the ceiling of a room or to a bracket depending from the ceiling. To the lower surface of this base are secured the circular contacts 6 and 7 concentric with each other and with

the axial center of the base, being separated by insulating material 8. To the contact 6 is electrically connected the positive arm *a* of the main circuit, and to the contact 7 is electrically connected the negative arm *b* of said circuit.

In the bearing of the base 5 is journaled a shaft 9 for operating a rotatable device on which it is desired to carry a device adapted to be operated by electricity, such, for instance, as the fan 10 carrying the electric lamps 11 and 12 which are included in a local electrical circuit of which the wires *c* and *d* respectively form the positive and negative arms, these wires in actual construction being hidden from view.

To that portion of the shaft 9 adjacent to its bearing is secured a clamping fitting formed of four angular brackets having segmental portions 13—13 for partially embracing the shaft and each having arms 14 and 15, the arms of the respective brackets being secured together by the clamping-screws 16—16, or 17—17, to firmly grasp the shaft 9. Between the arms 15—15 of the brackets and pivoted on the screws 17—17 are the insulating arms 18 and 19 which may be adjusted toward the base 5 and can be secured in position by tightening the screws. These arms 18 are vertically perforated in lines with the contacts 6 and 7 and in these perforations are secured the screw-threaded shanks 20 and 21 of the frames 22 and 23 which are adjusted by the nuts 24—24 and 25—25. In bearings of the frames 22 and 23 are mounted the shafts 26 and 27 which are electrically connected each with its arm *c*, or *d*, of the local circuit. On the shafts 26 and 27 are journaled the contact-wheels 28 and 29 by which electrical contact is maintained with the contacts 6 and 7 as the shaft 9 rotates.

The operation of the device will be readily understood from the description of its operation. The wires *a* and *b* being connected with any source of electrical energy, a circuit will be created through these wires to the contacts 6 and 7, thence through the wheels 28 and 29 to the shafts 26 and 27 in the local circuit in which the electrical device which it is sought to operate is included, this circuit being maintained whether the shaft 9 is

stationary, or is rotated, as the wheels 28 and 29 travel on the contacts 6 and 7 and maintain the electrical contact therewith.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a rotatable electric contactor, the combination with an insulating base, and annular contact-plates concentrically disposed on said base and insulated from each other, of a shaft rotatable in the base, brackets removably secured to the shaft, insulating arms adjustably mounted in the brackets, wheel frames having shanks vertically adjustable in the insulating arms, shafts secured in these frames and connected in the local circuit, and contact-wheels journaled on said shafts with which they are in electrical contact and bearing on the annular contacts of the base, as described.

2. The combination with the base 5, and the annular contacts 6 and 7 mounted thereon, each connected with an arm of the main

circuit, of the shaft 9 journaled in the base and carrying an electrically operated device, brackets having the arms 14—14 and 15—15 clamped to said shaft, the screws 16 and 17 for securing the arms together, the insulating-arms 18 and 19 pivoted on the screws 17 and secured between the arms 15, the shanks 20 and 21 extending through perforations in these arms and having the frames 22 and 23, the nuts 24 and 25 for securing the shanks in place, the shafts 26 and 27 mounted in the frames, the contact-wheels 28 and 29 journaled on said shafts and held in contact with the annular contacts 6 and 7, and a local circuit, in which the device carried by the shaft is included, connected with the shafts 26 and 27, as and for the purpose described.

In witness whereof I have hereunto set my hand.

JOHN W. CURRY.

Witnesses:

REED GREW,
MILES FDK. GILBERT.