No. 724,615. PATENTED APR. 7, 1903.

L. A. ROCKWELL & J. H. CHRISTIAN.

PORTABLE DROP LIGHT.

APPLICATION FILED JAN. 27, 1902.

NO MODEL.

Fig. 1.

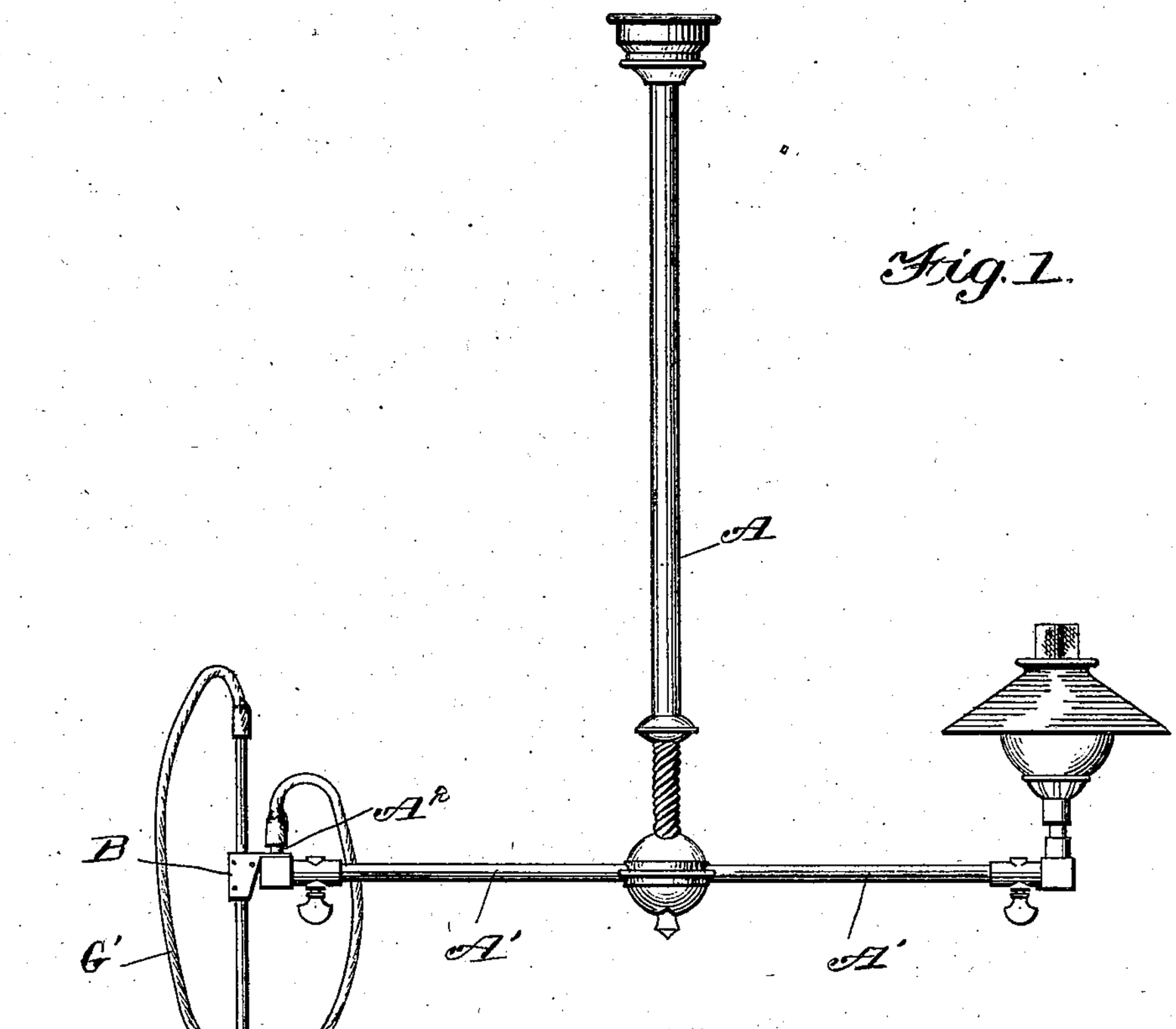


Fig. 2.

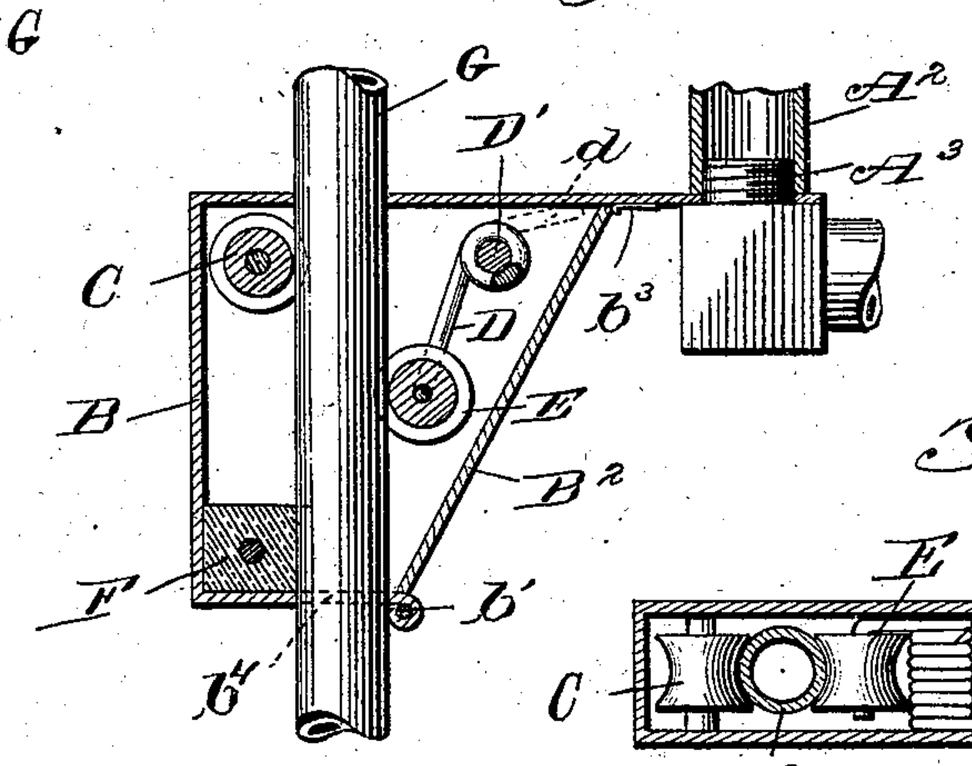
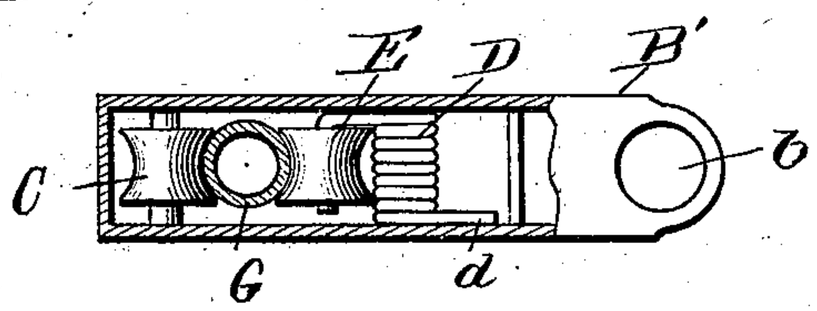


Fig. 3.



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UNITED STATES PATENT OFFICE.

LARKIN A. ROCKWELL AND JAMES H. CHRISTIAN, OF CHICAGO, ILLINOIS; SAID ROCKWELL ASSIGNOR TO AGUSTUS B. ROCKWELL, OF ALHAMBRA, ILLINOIS.

PORTABLE DROP-LIGHT.

SPECIFICATION forming part of Letters Patent No. 724,615, dated April 7, 1903.

Application filed January 27, 1902. Serial No. 91,398. (No model.)

To all whom it may concern:

Be it known that we, LARKIN A. ROCKWELL and JAMES H. CHRISTIAN, citizens of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Portable Drop-Lights; and we declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Our invention has for its object the production of mechanism whereby there may be attached to the ordinary gas-fixture now in use what is generally termed a "drop-lamp"—that is to say, a lamp so arranged that it may when not in use be moved up out of the way, and when it is desired to lower it adjacent to the person using it it may be pulled down.

We are of course aware that it is old to provide a gas-fixture with extension portions that may be lowered; but our invention lies in providing mechanism that can be attached to the ordinary gas-fixtures now in use.

In the drawings, Figure 1 represents a side elevation of a gas-fixture and our extension-lamp attached thereto. Fig. 2 is a vertical section through the fitting that is attached to the gas-fixture, and Fig. 3 is a horizontal section through the same.

Carrying out the invention, reference character A represents the ordinary gas-fixture having the arms A′ and post A^2.

B is a suitable fitting, preferably made hollow, as shown in Figs. 2 and 3, with an extension portion B′, provided with an orifice *b*. A door B^2 is hinged at *b′* to the remainder of the fitting and is held in place by the catch b^3, so that access can be gained to the interior of the casing at any time. Through the bottom wall of the casing is an orifice b^4, and the top wall is provided with another orifice in line therewith. Journaled in the casing B is a roller C, and mounted on the spring D is another roller E. The spring is held by the shaft or rod D′ in the casing, and one end of the spring *d* bears against the top of the casing, so that the roller E is spring-impelled. In the lower corner of the casing is a cushion F.

G is an ordinary pipe, which extends through the orifice b^4 in the bottom of the casing and through a corresponding orifice in the top of the casing and between the roller C and cushion F on the one side and the spring-impelled roller E on the other side.

To the upper end of the pipe is engaged a hose or other flexible conduit G′, the latter being passed over or engaged to the post A^2. On the pipe G is the usual burner G^2.

The structure will now be readily understood. The post A^2 is first removed and the extension B′ of the fitting engaged over the nipple A^3 of the post through the orifice *b*. The post A^2 is then screwed into place, thus holding the fitting securely in place. The pipe G is free to move vertically in the fitting, the roller C and cushion F forming just enough friction, together with the spring-impelled roller E, to allow the pipe to be held in any particular position, and is moved freely by the hand of the operator.

It is of course obvious that various details of the structure might be altered without departing from the spirit of the invention—such, for instance, as increasing or decreasing the number of antifriction-rollers and the particular form of spring and spring-impelled roller.

What we claim is—

1. The combination with a gas-fixture comprising a post-supporting arm and a post secured thereto, of a fitting supported upon the end of said arm adjacent to the post, a coil-spring mounted within said fitting, a roller journaled upon an end of said spring, a pipe passing through said fitting and adjustably retained therein by said roller, a burner mounted upon an end of said pipe, and a flexible pipe connection between said pipe and the adjacent post.

2. The combination with a gas-fixture comprising a post-supporting arm and a post secured thereto, of a fitting supported upon the end of said arm adjacent to said post, a rod supported within said fitting, a coil-spring surrounding said rod and engaging said fitting at one end, a roller journaled upon the

other end of said spring, a pipe passing through said fitting and adjustably retained therein by said roller, a burner mounted upon said pipe, and a flexible pipe connection between said pipe and post.

3. The combination with a gas-fixture comprising a post-supporting arm and a post secured thereto, of a fitting supported upon the end of said arm adjacent to the post, a plurality of bearings fixed within said fitting, a spring mounted within said fitting, a roller journaled upon said spring, a pipe passing through said fitting between said plurality of bearings and said roller, a burner mounted upon an end of said pipe, and a flexible pipe connection between said pipe and the post.

4. The combination with a gas-fixture, of a fitting supported thereon, a plurality of bearings within said fitting, a spring mounted within said fitting, a roller journaled upon said spring, a pipe passing through said fitting between said plurality of bearings and said roller, a burner mounted upon an end of said pipe, and a flexible tubular connection for conducting gas to said pipe.

5. The combination with a gas-fixture, of a fitting supported thereon, a plurality of bearings within said fitting, one supported at the top and another at the bottom thereof, a spring mounted within said fitting extending to a point intermediate of said bearings, a pipe passing through said fitting and forced against said plurality of bearings by the resiliency of said spring, a burner mounted upon an end of said pipe, and a flexible tubular connection for conducting gas to said pipe.

In testimony whereof we sign this specification in the presence of two witnesses.

LARKIN A. ROCKWELL.
JAMES H. CHRISTIAN.

Witnesses:
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