

E. J. GLACKIN.
ATTACHMENT FOR RADIATORS
APPLICATION FILED DEC. 8, 1906

928,255.

Patented July 20, 1909.

Fig. 1.

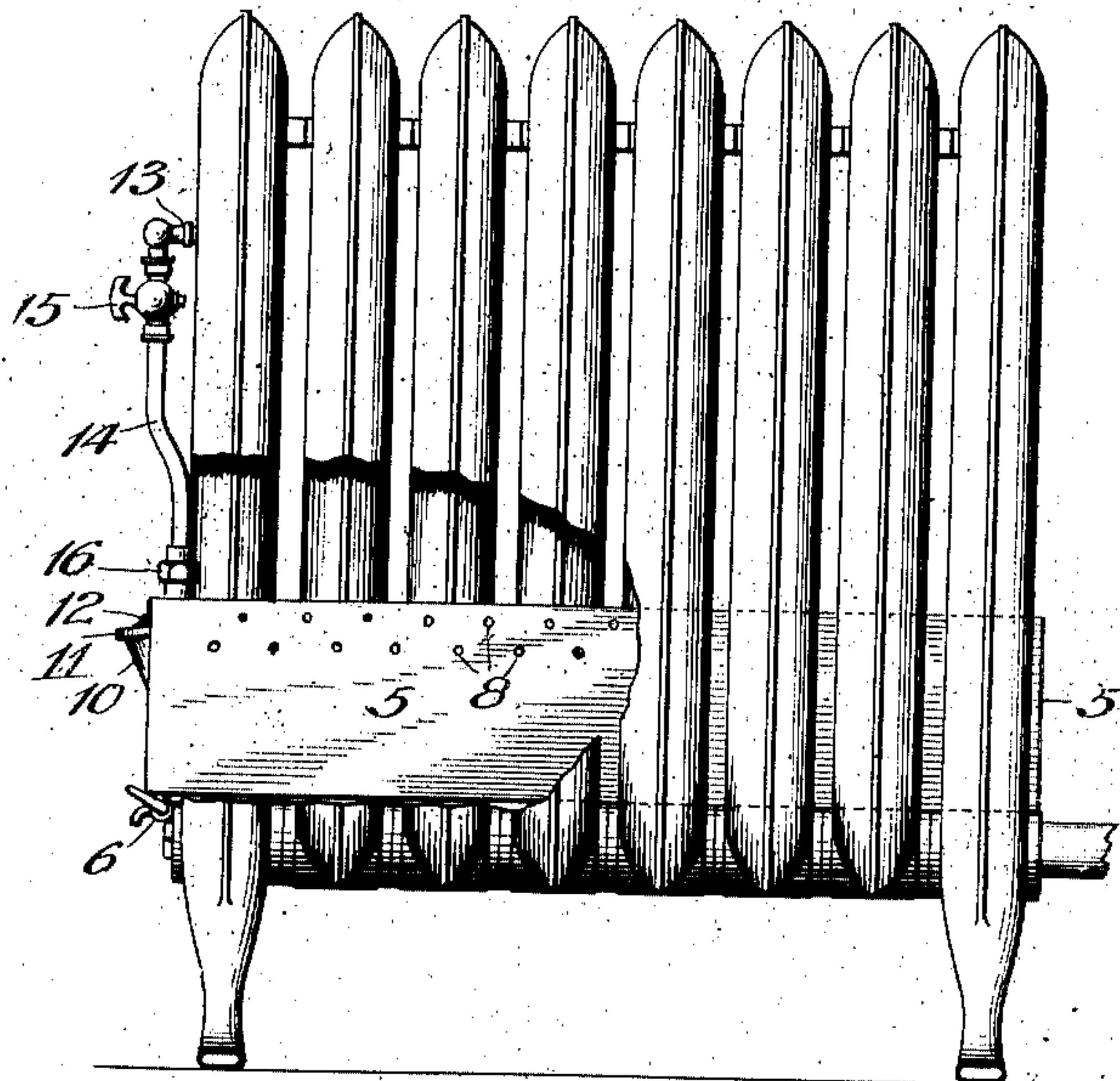


Fig. 2.

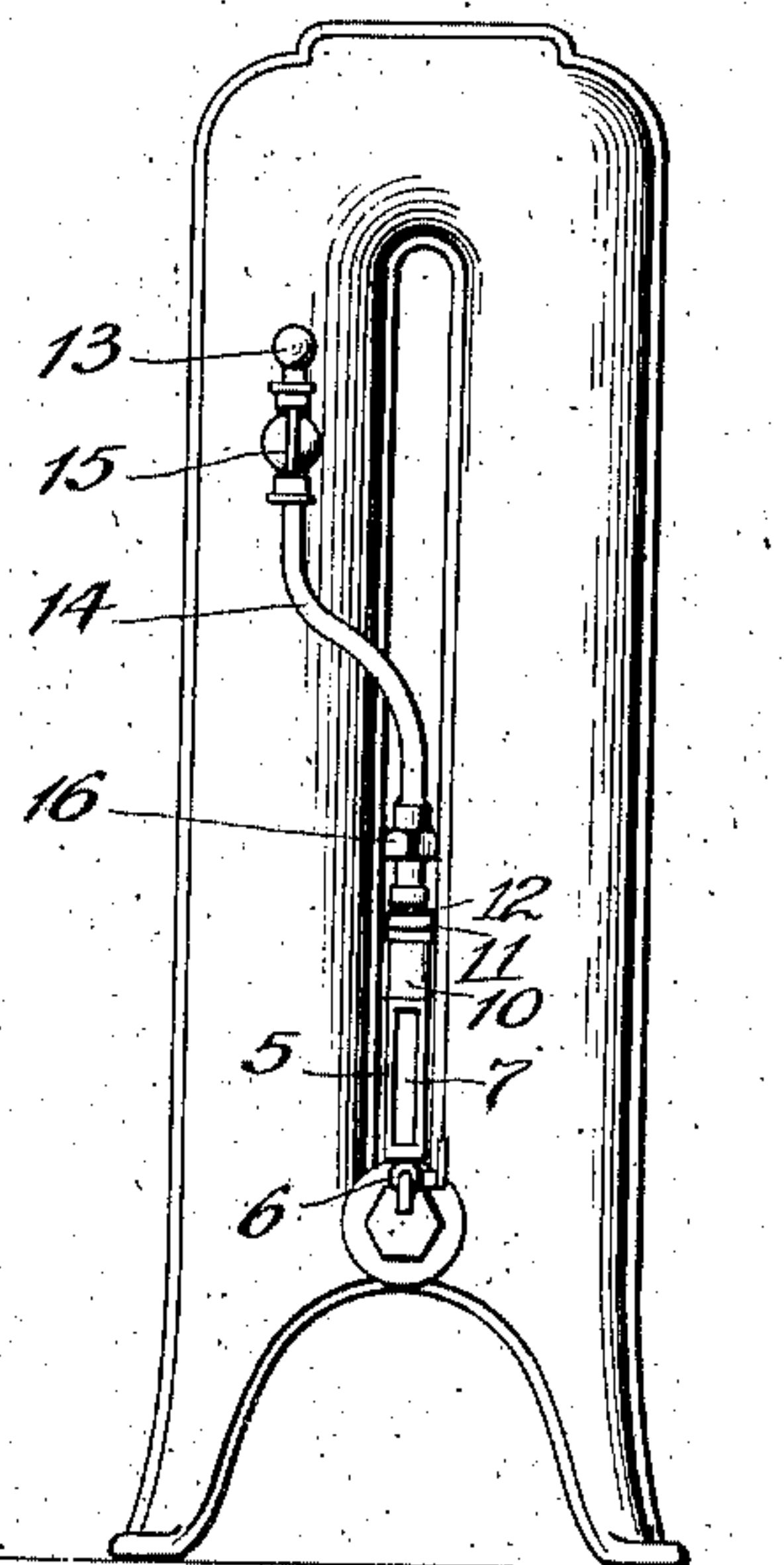


Fig. 3.

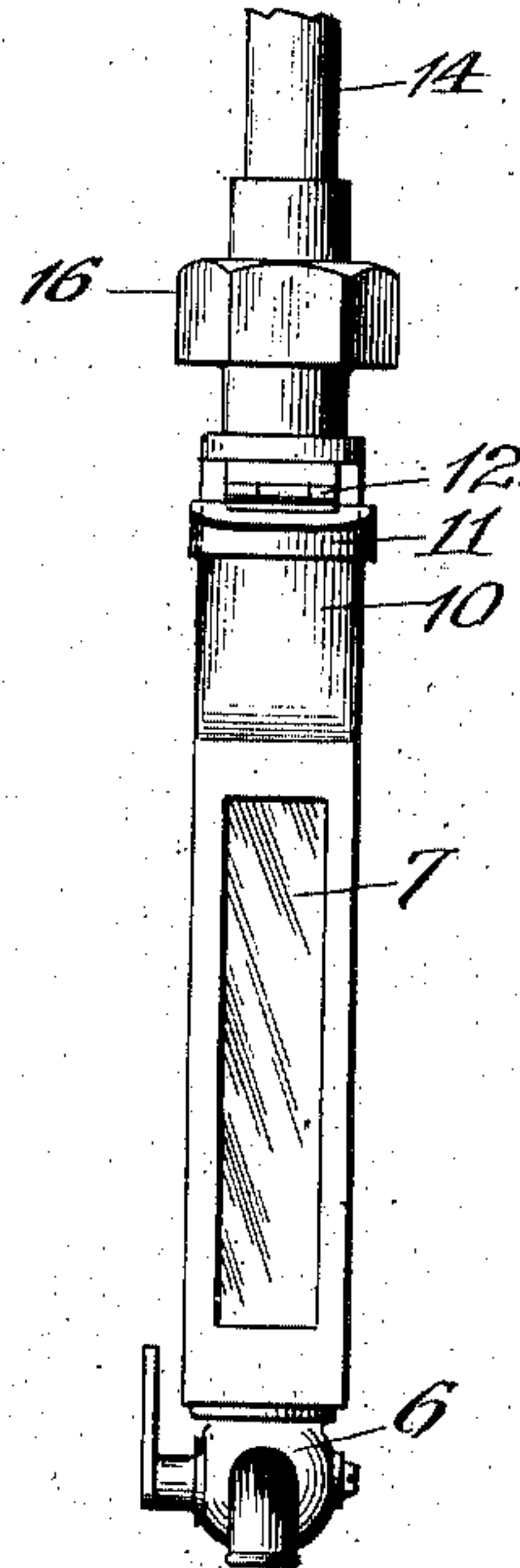
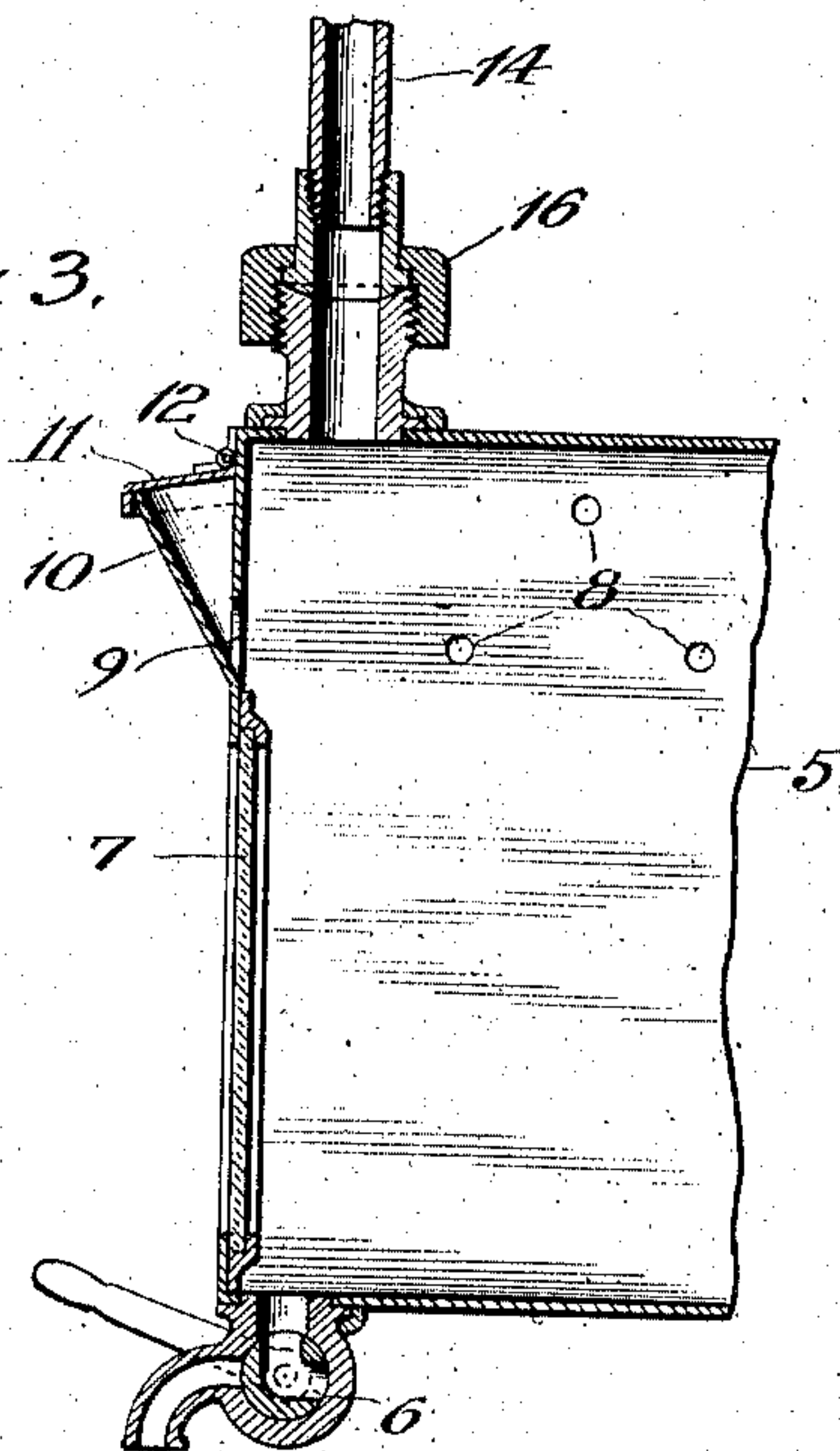


Fig. 4.

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Att'y.

UNITED STATES PATENT OFFICE.

EDWARD J. GLACKIN, OF CHICAGO, ILLINOIS.

ATTACHMENT FOR RADIATORS.

No. 928,255.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed December 8, 1906. Serial No. 346,864.

To all whom it may concern:

Be it known that I, EDWARD J. GLACKIN, a citizen of the United States, and resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Attachments for Radiators, of which the following is a full, clear, and exact specification.

My invention is concerned with a novel attachment for radiators, whether steam or hot water, that has as its primary object the moistening of the air in the room so that it will be more agreeable than the warm dry air furnished by the ordinary radiator. Incidentally, my attachment serves as a valve by which the heated air and water of condensation may be drawn off to regulate the heat without any drip upon the floor such as is likely to occur with the ordinary valve used for this purpose. It may also be used for the purpose of furnishing a limited amount of water heated by the radiator.

To illustrate my invention, I annex hereto a sheet of drawings in which the same reference characters are applied to the same parts in all the figures, of which:

Figure 1 is a side elevation of the radiator having my invention attached thereto with a portion of the coils on one side being broken out to more clearly disclose the structure; Fig. 2 is an end elevation of same; Fig. 3 is a vertical section through one end of the attachment on a larger scale; and Fig. 4 is an end elevation on the same scale.

In carrying out my invention, I provide a receptacle 5, which is preferably constructed of sheet metal and is preferably of the narrow elongated, rectangular shape shown so that it is adapted to be fitted in the loops of the coils of the radiator as shown. The receptacle is provided, preferably at the bottom of one end, with a cock 6, by which the water may be drawn off from the receptacle when for any reason it becomes desirable. To readily indicate the water level, I preferably provide a glass panel 7 in one end, which extends up substantially to the lowermost of the perforations 8, which are preferably provided to permit the escape of the vapor as the water in the receptacle evaporates. As it may be desirable at times to introduce a supply of water into the receptacle without taking it from the radiator, I preferably employ the filling aperture 9, which preferably has associated therewith the stationary funnel 10, which is

preferably normally closed by the lid 11 which is pivoted to the casing at 12. The receptacle is connected with the radiator by means of the plug 13 which is adapted to be screwed into the threaded aperture ordinarily provided for an automatic valve, or any other suitable aperture, and it is connected to the pipe 14 by means of the shut-off valve 15 interposed for the purpose of regulating the amount of steam or water that can pass from the radiator to the receptacle, it, of course, being understood that where a steam radiator is employed the valve may be closed entirely when it is desirable to cool off the radiator coils, and that it may be opened to permit the desired amount of steam to pass into the receptacle for condensation and to establish the proper circulation of steam in the coils. It, of course, may also be used to draw off the water of condensation when the steam is freshly admitted. Where a hot water radiator is employed the valve is necessary to draw the desired amount of water for evaporation into the receptacle. The pipe 14 is connected with the top of the receptacle by any desired form of union 16, a common form being illustrated in section in Fig. 3.

By the use of my aforesaid invention, it will be apparent that the movement of the steam in a radiator can be readily controlled, and also the amount of evaporation of moisture into the air can likewise be readily regulated, whether the radiator be used for steam or hot water. The various methods of operating will be readily apparent to those familiar with the use of radiators, and detail directions for all conditions which may arise are not believed to be necessary.

While I have shown and described my invention as embodied in the form which I at present consider best adapted to carry out my invention, it will be understood that it is capable of modifications, and I do not desire to be limited in the interpretation of the following claims except as may be necessitated by the state of the prior art.

What I claim as new, and desire to secure by Letters Patent of the United States, is:

1. The combination with a radiator having the loop coils, of a deep water receptacle having openings therein near the top to permit the vapor of water to escape into the atmosphere located in the loops of the coils and having the proper cross section to fit snugly therein and present a large surface for heat

convection, pipe connections leading from the upper part of the radiator into the receptacle, and a valve in said connections to open or close the passage therethrough so that steam may be passed through the radiator into the receptacle when desired, substantially as and for the purpose described.

2. The combination with a radiator having the loop coils, of a deep water receptacle having openings therein near the top to permit the vapor of water to escape into the atmosphere located in the loops of the coils and having the proper cross section to fit snugly therein and present a large surface for heat convection, pipe connections leading from the upper part of the radiator into the receptacle, a valve in said connections to open or close the passage therethrough so that steam may be passed through the radiator into the receptacle when desired, and a draw-off cock at the bottom of one end of the receptacle.

3. The combination with a radiator having the loop coils, of a deep water receptacle having openings therein near the top to permit the vapor of water to escape into the atmosphere located in the loops of the coils and having the proper cross section to fit snugly therein and present a large surface for heat convection, pipe connections leading from the upper part of the radiator into the receptacle, a valve in said connections to open or close the passage therethrough so that steam

may be passed through the radiator into the receptacle when desired, said receptacle having a filling aperture at the top of one end thereof independent of the pipe connections, and a sight glass in the same end of the receptacle as the filling aperture.

4. The combination with a radiator having the loop coils, of a deep water receptacle having openings therein near the top to permit the vapor of water to escape into the atmosphere located in the loops of the coils and having the proper cross section to fit snugly therein and present a large surface for heat convection, pipe connections leading from the upper part of the radiator into the receptacle, a valve in said connections to open or close the passage therethrough so that steam may be passed through the radiator into the receptacle when desired, a draw-off cock at the bottom of one end of the receptacle, said receptacle having a filling aperture at the top of the same end thereof and independent of the pipe connections, and a sight glass between the filling aperture and the draw-off cock.

In witness whereof, I have hereunto set my hand and affixed my seal, this 6th day of December, A. D. 1906.

EDWARD J. GLACKIN. [L. s.]

Witnesses:

JOHN H. McELROY,
M. G. REEDER.