R. LEWERS.

ADJUSTABLE HINGED CEILING PLATE.

APPLICATION FILED JUNE 13, 1908.

916,568. Patented Mar. 30, 1909.

Fig. 1.

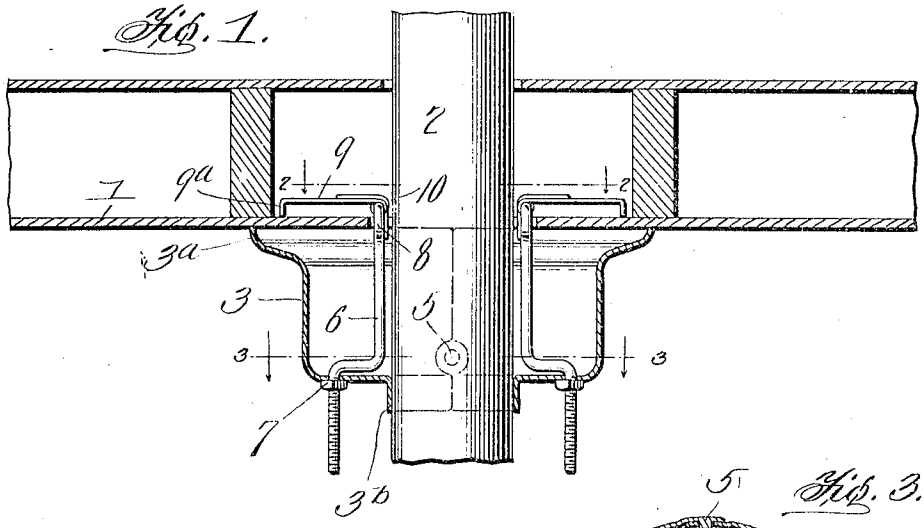


Fig. 3.

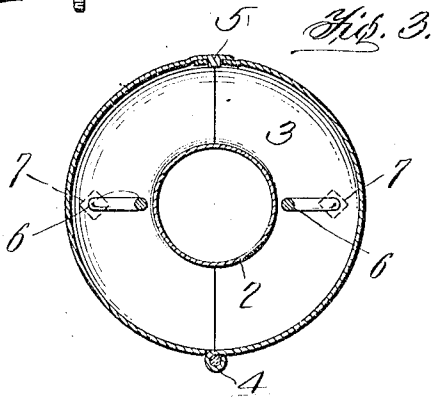
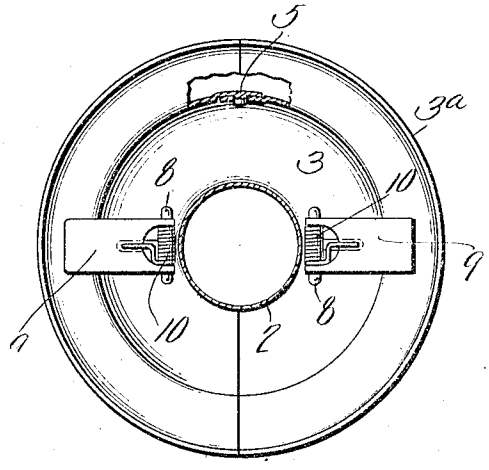


Fig. 2.



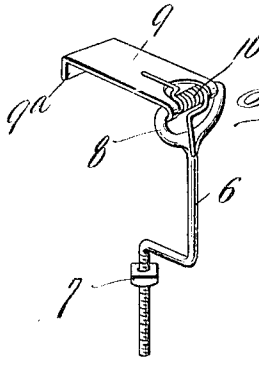


Fig. 4.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE HINGED CEILING-PLATE.

No. 916,568. Specification of Letters Patent. Patented March 30, 1909.

Application filed June 13, 1908. Serial No. 438,397.

To all whom it may concern:

Be it known that I, ROBERT LEWERS, a citizen of the United States, residing at New Hartford, in the county of Oneida and State of New York, have invented a new and useful Improvement in Adjustable Hinged Ceiling-Plates, of which the following is a specification.

This invention relates to a ceiling plate, reference being had to that class of plates through which a steam pipe passes, and the invention relates especially to plates used in connection with vertically extending pipes.

The object of the invention is to provide a ready means for holding the ceiling plate in position, and for tightening the same should it become loose.

The invention consists of the novel features of construction hereinafter described, pointed out in the claims, and shown in the accompanying drawings, in which,

Figure 1 is a sectional view illustrating the application of my invention to a ceiling plate, a steam pipe being shown in section. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a section on the line 3—3 of Fig. 1. Fig. 4 is a detail perspective view of my ceiling plate locking means.

In these drawings 1 represents a ceiling through which passes a steam pipe 2. A ceiling plate 3 is cylindrical in form and is formed in two sections each of which carries an upper bell-shaped flange 3^a which bears against the ceiling and a lower inwardly extending angled flange 3^b which bears against the steam pipe. These sections are hinged as shown at 4 and provided with any suitable fastening means as at 5. Through this ceiling plate I pass vertically upon opposite sides of the steam pipe two rods 6 offset adjacent their lower ends, said lower ends projecting downwardly below the flange 3^b and being threaded, and upon said threaded portions work nuts 7. The body portions of these rods lie close to the stove pipe and terminate in stirrups at their upper ends which stirrups rest in the opening formed in the ceiling for the passage of the pipe. To these stirrups are hinged angled plates 9 provided at their free ends with end flanges 9^a, and to each stirrup is secured a spring 10 the ends of which bear respectively upon the stirrup and the plate 9 connected thereto.

It will be obvious from an inspection of Fig. 1 that when the stirrups are brought into the position shown the spring 10 will force the plate 9 at right angles to the rod 6, and parallel to the upper side of the ceiling 1 upon which the flanged portions 9^a of the plates rest.

By tightening the nuts 7 the ceiling plate 3 can be pressed tightly against the ceiling 1, and it will be held firmly in position between the ceiling and the nuts, the plates 9 and springs 10 preventing the rods 6 from dropping downwardly.

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

1. The combination with a ceiling plate, threaded rods passing vertically therethrough, nuts working upon the threaded portions of said rods and bearing against the plate, and spring pressed plates hinged to the upper ends of the rods.

2. A device of the kind described comprising a sectional cylindrical, ceiling plate, a rod passing vertically through each section of the ceiling plate, the lower end portions of said rods being threaded, plates hinged to the upper end portions of said rods, springs carried by said rods and bearing upon said plates and nuts working in the threaded portions of the rods.

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