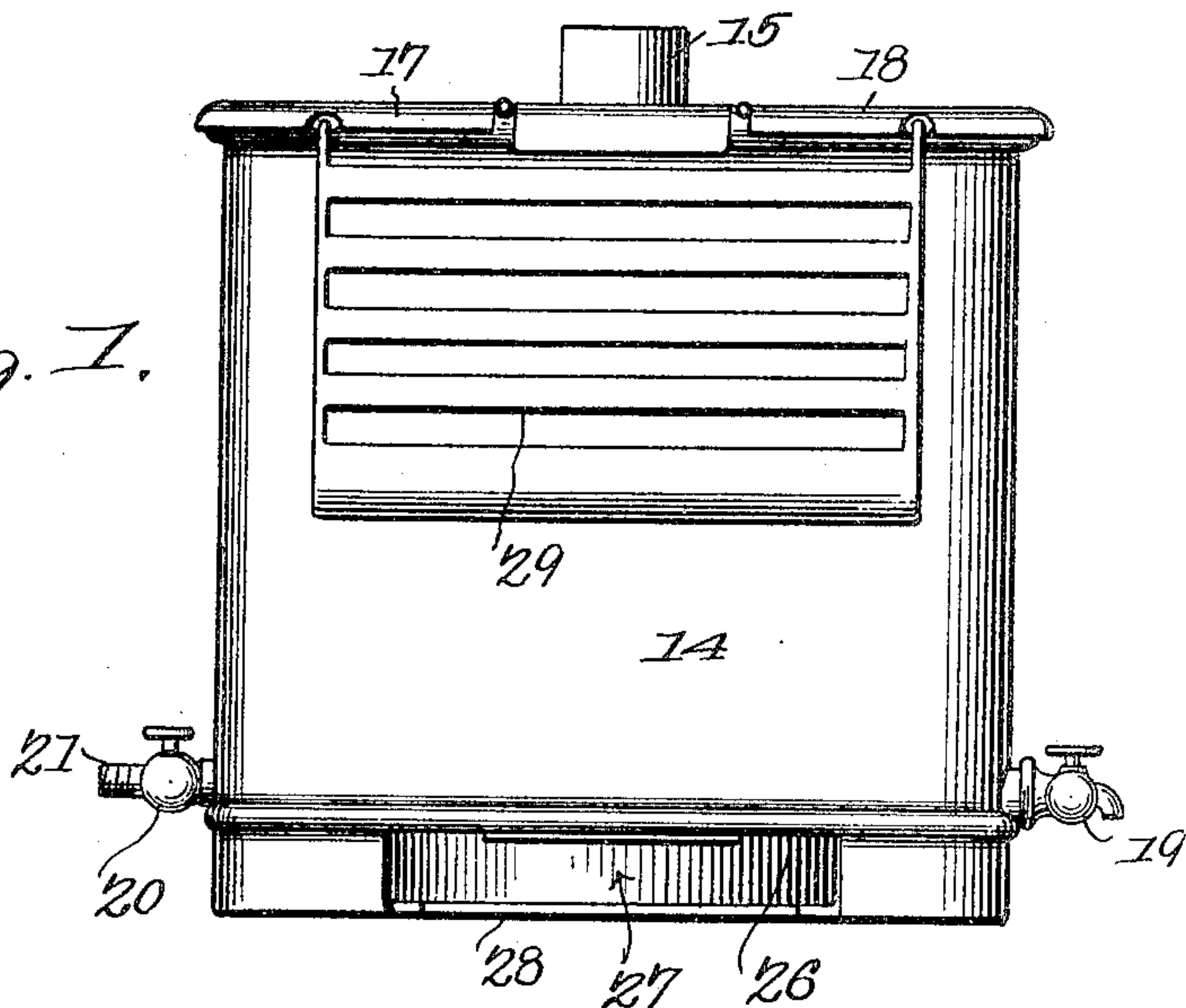


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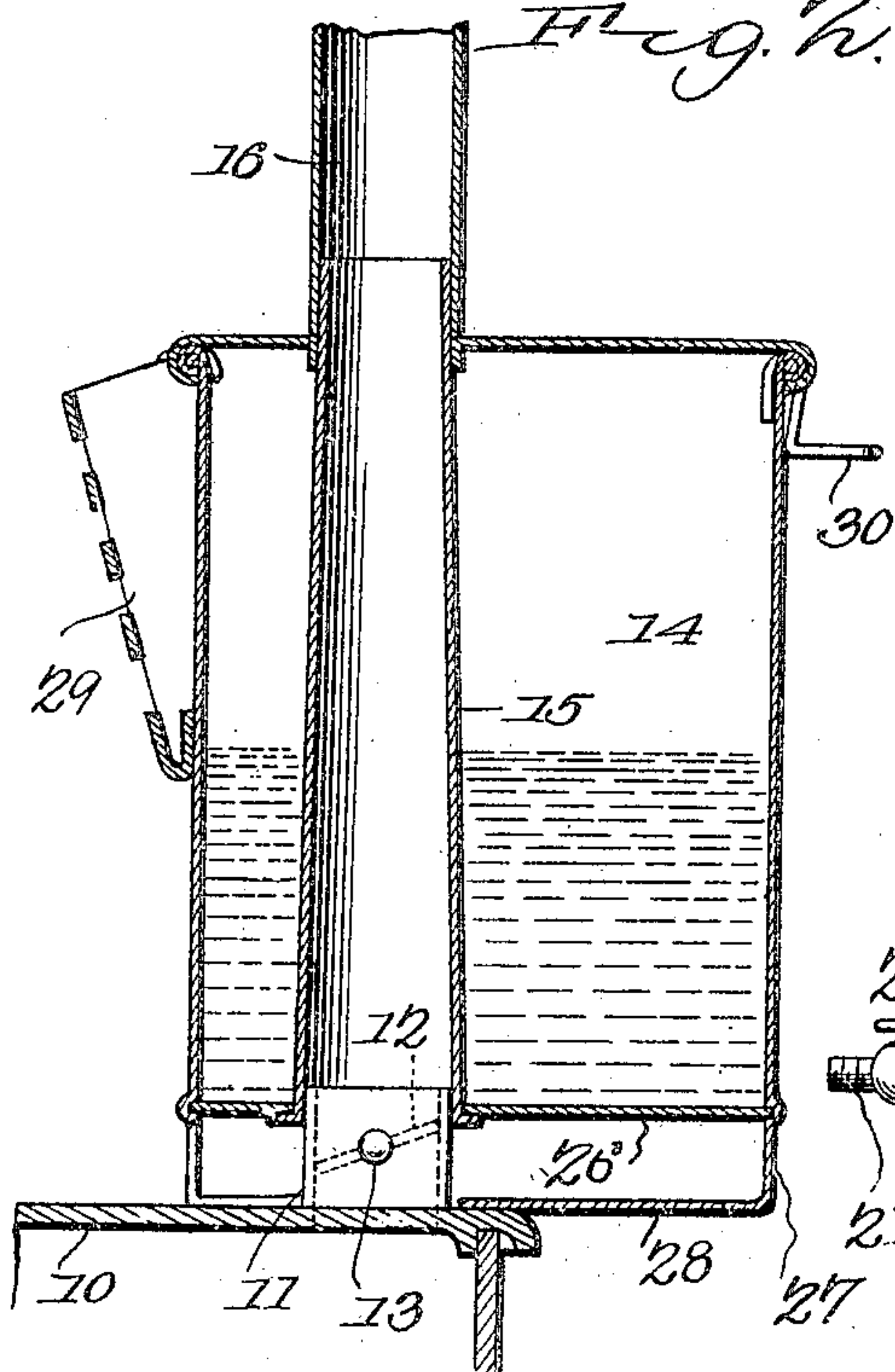
PATENTED FEB. 20, 1906.

E. BELL.  
HEATER ATTACHMENT TO STOVES.  
APPLICATION FILED MAY 1, 1905.

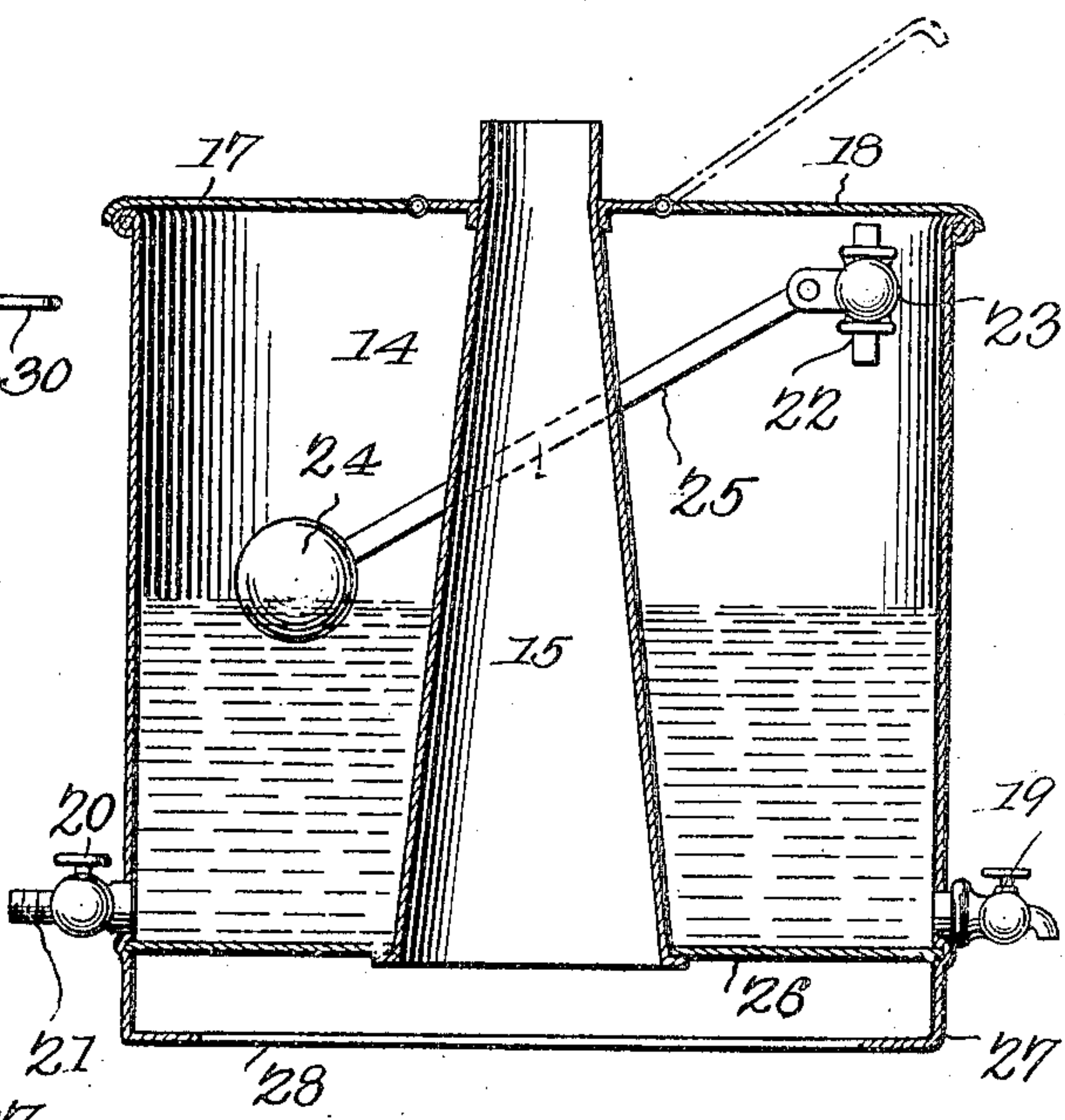
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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## HEATER ATTACHMENT TO STOVES.

No. 813,137.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed May 1, 1905. Serial No. 258,229.

*To all whom it may concern:*

Be it known that I, EMMA BELL, a citizen of the United States, residing at Jacksonville, in the county of Duval and State of Florida, have invented a new and useful Heater Attachment to Stoves, of which the following is a specification.

This invention relates to attachments to cook-stoves for heating water by the heat radiated therefrom, and has for its object to simplify and improve the construction and produce a device of this character which will not occupy any of the useful space above the stove and which will, in addition, provide a chamber between the vessel and stove which may be utilized as a warming-chamber and will likewise protect the vessel from direct radiation from the stove.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages, and the right is therefore reserved of making all the changes and modifications which fairly fall within the scope of the invention and the claims made therefor.

In the drawings thus employed, Figure 1 is a front elevation. Fig. 2 is a longitudinal sectional elevation. Fig. 3 is a transverse sectional elevation.

The improved device may be applied to any of the various forms and styles of cook-stoves, but is more particularly applicable to cook-stoves having dampers in the smoke-flue collar or contiguous to the top of the stove and for the purpose of illustration is shown thus applied; but the device may be readily applied to other forms by making slight and immaterial modifications therein. A portion of the top of the stove is represented at 10, with the usual flue-collar 11 ex-

tending from its rear side, the collar having the usual damper, (indicated at 12,) operative by the button 13.

The improved attachment consists of a vessel 14 of any suitable material—such as heavy galvanized sheet iron or steel, copper, or the like—and with an intermediate vertical flue 15, adapted to connect with the collar 11 by its lower end and to the smoke-flue 16 of the stove at its upper end. The vessel 14 is provided with hinged covers 17 18 to afford access thereto from either side of the flue 15 and will likewise be provided with draw-off valves 19 20, preferably from either side. One of the valves will preferably be formed with a nipple 21 to provide for the connection of a bath-tub or for other purposes. The vessel 14 will also preferably be provided with an inlet-pipe 22, having a ball-cock 23, to which a float 24 is connected by the usual rod 25 to control the inflow and maintain a uniform water-supply in the vessel. The flue 15 will be located relatively near the point of the vessel, with the rear portion extended rearwardly of the stove for a considerable distance, whereby a large interior area is provided without obstructing the top of the stove forwardly of its smoke-flue or occupying valuable space over the top of the stove. This is an important advantage and adds materially to the value of the device. The rear and end walls of the vessel are extended downwardly below its bottom 26, as at 27, and provided with an inwardly-extending flange 28 for engagement with the top of the stove and forming a "foot" or rest for supporting the vessel spaced for a considerable distance above the stove. By this downward extension three very important and valuable advantages are gained: First, a warming-chamber is provided in which articles of food may be placed to keep them at an equal temperature; second, an air-chamber is provided which effectually protects the bottom of the vessel from direct radiation from the stove, and thus prevents overheating, especially if the vessel should be inadvertently deprived of its water, and, third, the chamber provides access to the damper and operating-button 13. The chamber beneath the vessel is thus a very valuable and important feature of the invention and adds materially to its efficiency and operativeness.



A rack 29 for supporting dishes for warming or drying may be detachably connected to one side and a towel-rack 30 at the other side, if required.

5 By this simple arrangement it will be noted the heat from the smoke, incombustible gases, and other products of the combustion rising through the flue 15 will be radiated directly into the water and the heat which  
10 would otherwise be wasted utilized for a useful purpose. It will be also noted that the inwardly-extending flange 28 forms a bottom for the warming-chamber rearwardly of the stove 10.

15 Having thus described the invention, what is claimed is—

1. A water-heater comprising a vessel having an intermediate vertical flue for connection at one end to the smoke-flue collar of a  
20 cook-stove and with the smoke-flue of the stove leading from the other end, the rear and end walls of the vessel extended below the bottom of the same and resting upon the stove, whereby a warming-chamber is provided between the vessel and stove and the  
25

bottom of the vessel protected from the direct radiation from the stove.

2. A water-heater comprising a vessel having an intermediate vertical flue for connection at one end to the smoke-flue collar of a  
30 cook-stove and with the smoke-flue of the stove leading from the other end, said flue being located relatively near the front of the vessel with the rear portion of the same extending rearwardly of the stove, and with the  
35 rear and end walls of the vessel extended downwardly and terminating in inwardly-extending flanges for engagement with the top of the stove, whereby a warming-chamber is provided between the vessel and stove,  
40 closed at the rear, bottom, and ends and open at the front.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EMMA BELL.

Witnesses:

ALLAN GREELEY,  
A. C. KAY.