

954,906.

Patented Apr. 12, 1910.

2 SHEETS-SHEET 1.

Fig. 1.

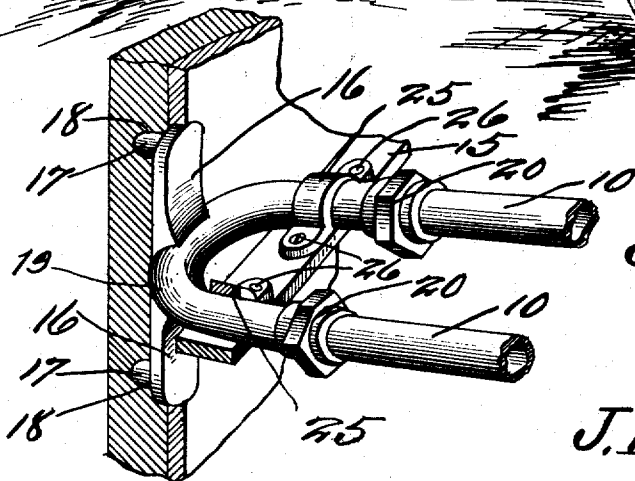
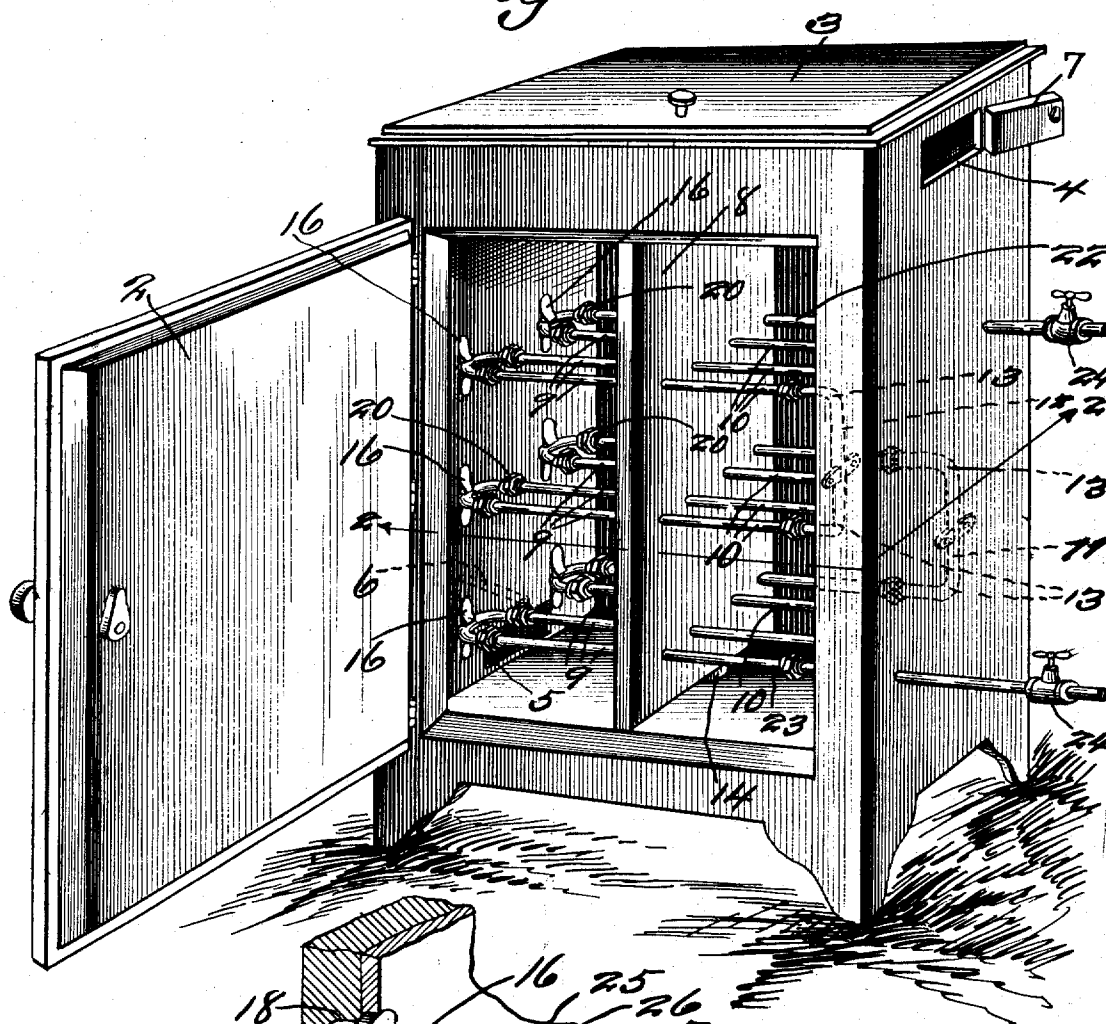


Fig. 4.

Witnesses

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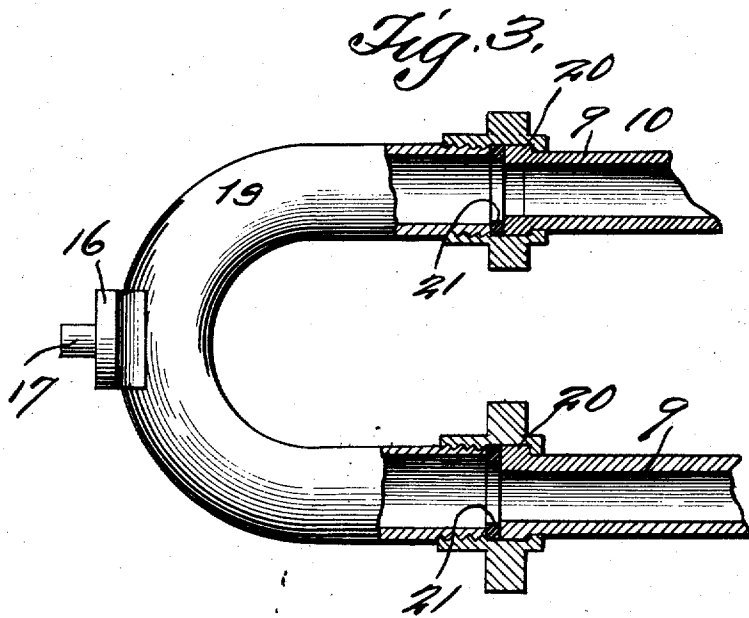
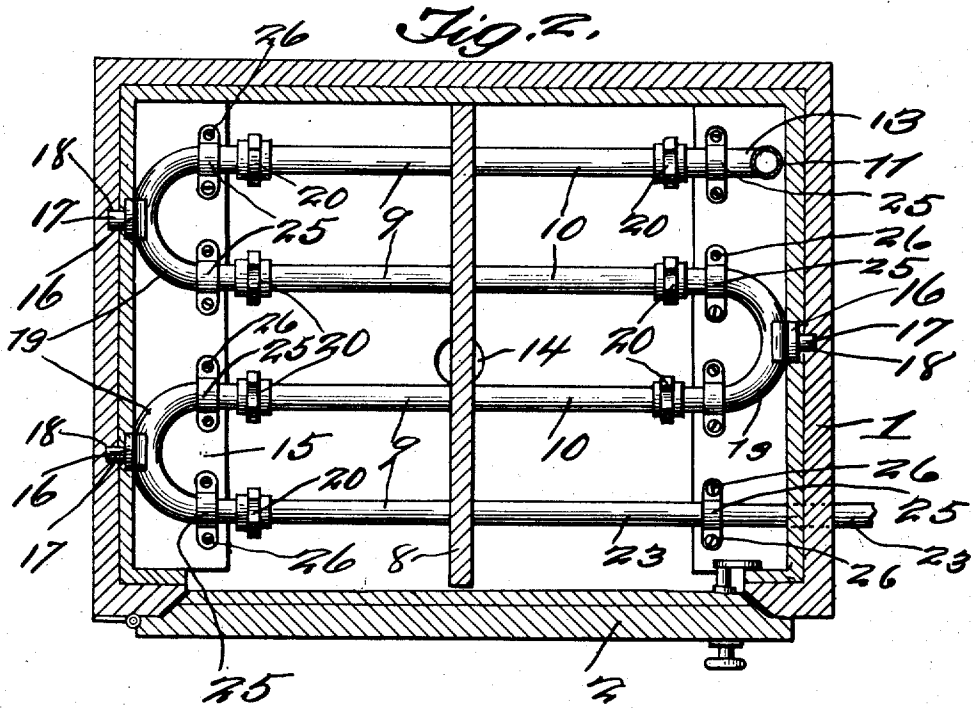
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES ROBERT WOOD, OF DUNLO, PENNSYLVANIA.

REFRIGERATOR.

954,906.

Specification of Letters Patent.

Patented Apr. 12, 1910.

Application filed November 8, 1908. Serial No. 528,659.

To all whom it may concern:

Be it known that I, JAMES R. WOOD, a citizen of the United States, residing at Dunlo, in the county of Cambria and State of Pennsylvania, have invented a new and useful Refrigerator; and I do hereby 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 appertains to make and use the same.

The main object of the invention is the provision of a plurality of horizontally disposed pipes (which form shelves for the support of various articles) through which the water or other cooling fluid flows.

A further object of the invention is to provide a sanitary device of this design having pipe shelves, and provided with supports for the pipes, and means for preventing displacement of the pipes.

In this specification and the annexed drawings, a particular design of device is adhered to, but the invention is not to be confined to this specific design. The device in its actual reduction to practice may necessitate changes and variations, the right thereof belongs to the applicant, provided such changes and variations are comprehended by the appended claims.

Further objects and combination of parts, will be hereinafter set forth, and pointed out in the appended claims.

Referring to the drawings, Figure 1 is a perspective view, clearly showing the pipe shelves. Fig. 2 is a horizontal section through the device taken upon line 2—2 of Fig. 1 showing the means for supporting the pipe shelves, and the means for preventing displacement thereof. Fig. 3 is a sectional view through one of the joints of the pipes forming the shelves. Fig. 4 is a view showing a different form of means for preventing the displacement of the pipes.

Attention is directed to the annexed illustrations, in which 1 denotes an incasement, provided with a closure 2 hinged to the front thereof, and another closure 3 hinged to the top. This incasement is provided with upper and lower openings whereby the incasement may be properly ventilated. These openings 4 and 5 are covered by suitable meshwork, upon the inside face of the incasement. While hinged to the outer face of the incasement, and in a position to close said openings 4 and 5 are doors or closures 6 and 7 (which may be provided with the

usual latches). This incasement is divided centrally by a partition 8.

Extending transversely of the incasement are three tiers of pipe coils 9 and 10 (which form shelves for the support of various articles). The three tiers of pipes are connected together by the vertically disposed pipes 11 and 12, which are provided with the usual elbows 13. This installation of pipes may be connected to any suitable water system of a building, in order to cool the interior of the incasement. This incasement may be provided with a drain pipe as shown at 14, in order to carry off the drippings from the pipes forming the shelves, which as will be clearly manifest, sweat from the cool water running therethrough. The pipes forming the shelves are supported from brackets 15, or the elbows may be provided with ears 16, the outer faces of which are formed with integral bosses or lugs 17, designed to engage recesses or depressions 18, formed upon the inner side faces of the incasement. The elbows 19 are connected to the various pipes forming the shelves, by means of slip union joints, so that the pipes or tubes may be easily and quickly removed or replaced when necessary. These joints are provided with suitable rubber gaskets or washers 21, in order to afford fluid tight joints.

The pipes 22 and 23 of the upper and lower tier of pipes are extended beyond the incasement, and provided with valves 24, by which the circulation of water or other fluid is readily controlled; the lower pipe 23 acts as the inlet, while the upper pipe 22 is the outlet. The incasement may be lined with any suitable metal, for instance in the present case zinc is employed. When the pipes are supported upon the brackets 15, arched plates 25 are placed over the pipes, and are secured to the brackets by means of screws or other suitable devices 26, in order to prevent movement of the pipes.

From the foregoing, the essential features, elements and the operation of the device, together with the simplicity thereof, will be clearly apparent.

Having thus fully described the invention, what is claimed as new and useful is:—

1. In a refrigerator, an incasement having tiers of pipes forming shelves through which the fluid circulates, curved connections for connecting the pipes of each tier, said connections having lugs or ears, said incasement

having recesses, said lugs or ears having means to enter said recesses.

2. In a refrigerator, an incasement having recesses upon the inner faces of the sides and provided with tiers of pipes forming shelves through which the fluid circulates, curved connections having slip union joints for connecting said pipes of each tier and provided with ears, said ears having means to enter said recesses.

3. In a refrigerator, an incasement having recesses upon the inner faces of the sides thereof and provided with tiers of pipes forming shelves through which the fluid circulates, curved connections having slip union joints for connecting said pipes of each tier and provided with ears, said ears having bosses to engage said recesses.

4. In a refrigerator an incasement having recesses upon the inner faces of the sides thereof and provided with tiers of pipes forming shelves through which the fluid circulates, said shelves having connecting pipes and provided with an inlet and outlet, means to control said inlet, curved connections having slip union joints for connecting said pipes of each tier and provided with ears, said ears having bosses to engage said recesses.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES ROBERT WOOD.

Witnesses:

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