R. RAYSON.

AIR ADMISSION DEVICE FOR AIR CIRCULATION STORAGE CHAMBERS.

APPLICATION FILED MAR. 19, 1917.

1,240,367. Patented Sept. 18, 1917.

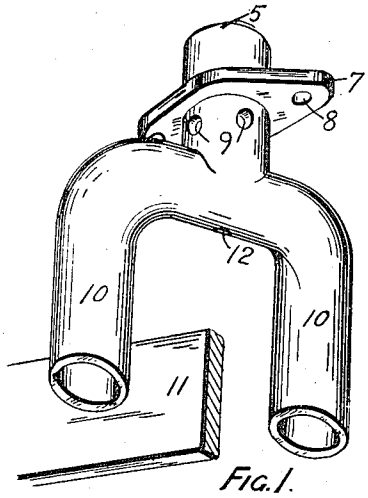


Fig. 1.

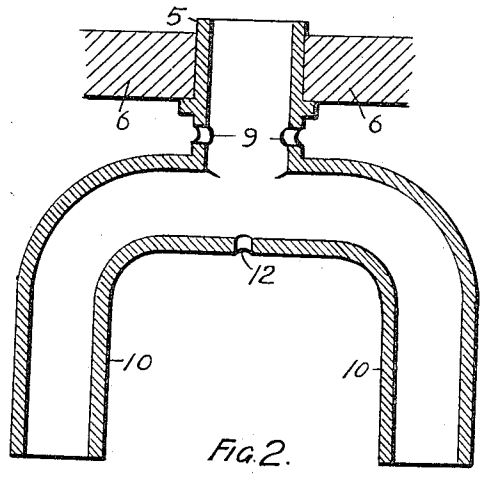


Fig. 2.

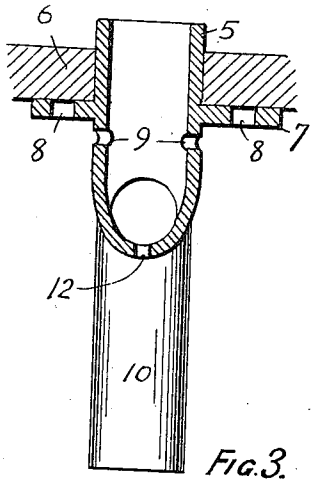


Fig. 3.

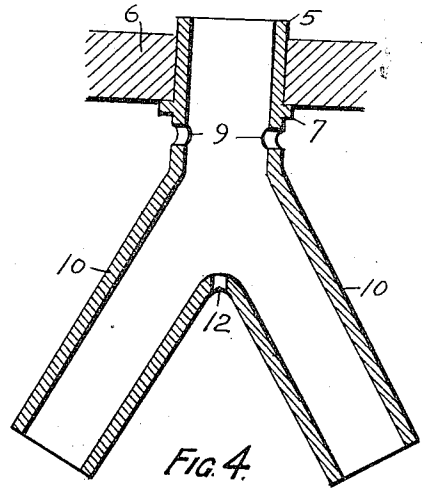


Fig. 4.

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UNITED STATES PATENT OFFICE.

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AIR-ADMISSION DEVICE FOR AIR-CIRCULATION STORAGE-CHAMBERS.

1,240,367. Specification of Letters Patent. Patented Sept. 18, 1917.

Application filed March 19, 1917. Serial No. 155,931.

To all whom it may concern:

Be it known that I, RUSSELL RAYSON, a subject of the King of Great Britain and Ireland, residing at Arnold House, 14 Queen street, Melbourne, in the State of Victoria, Commonwealth of Australia, have invented certain new and useful Improvements in Air-Admission Devices for Air-Circulation Storage-Chambers, of which the following is a specification.

This invention relates to refrigerating or defrosting chambers wherein meat is suspended and wherein air is admitted from numerous points in the ceiling and withdrawn through or about the floor level, and particularly to the devices fitted into the ceiling and through which air is admitted to the chamber.

It is a usual and advisable practice to suspend the meat in such position relatively to one or more of said points of air admission that the downward current of air envelops its whole surface, and the meat is commonly suspended directly under the admission aperture. It is found, however, that the direct play of the air has a deleterious effect upon that portion of the meat which it directly impinges upon.

The object of this invention is to provide an air admission device of such form and construction that while meat may be suspended centrally under the device, the incoming current of air does not impinge directly on the meat; and also to provide a device as aforesaid having means whereby deposition of moisture or snow on the under side of the ceiling and on the exposed parts of the device and other adjacent elements is prevented.

With these objects in view the invention consists firstly of a tubular device comprising a stem adapted to be fitted into the ceiling and project upwardly through and with means for attaching it to same and having laterally extending and downwardly directing open ended branches, and, secondly, of a device as aforesaid provided with small apertures admitting small air currents playing across the underside of the ceiling and on to the meat rail and adjacent parts.

In the accompanying drawings which depict an air admission device and its adaptation according to this invention,

Figure 1 is a perspective view of a device in the preferred position relatively to the meat bar,

Fig. 2 a vertical sectional elevation through the stem of the device, Fig. 3 a vertical sectional elevation through the branches, and

Fig. 4 is a similar view on a reduced scale showing a modified arrangement of the branches.

The device has a tubular stem 5 adapted to project through the ceiling 6 and into the air compartment thereof, and a flange 7 by means of which it is secured to the ceiling, screws being passed through holes 8. 8. for that purpose.

Immediately below the flange are the radial holes 9. 9. which horizontally direct jets of air laterally under the ceiling and carry off any moisture which might otherwise accumulate and be deposited thereon. And below said holes the stem is divided into laterally extending and downwardly directing branches 10. 10. from which air issues but does not impinge directly on the meat which is suspended between said branches from the meat rail 11. And to minimize deposition of moisture or snow upon the meat rail 11 and adjacent parts, an aperture 12 is provided on the lower extremity of the stem 6, and issuing from said aperture a small current of air plays upon and about said meat rail and adjacent parts.

It is not essential that the branches 10 should meet the stem 5 at right angles, as the whole device may be in the form of an inverted prong as in Fig. 4, the branches being inclined to the stem.

What I claim as my invention is:—

1. An air admission device for air circulating storage chambers, comprising a tubular stem, laterally extending and downwardly directing branches therefrom, lateral holes in the stem and means for attaching the device to the ceiling of a chamber, substantially as and for the purpose specified.

2. An air admission device for air circu-

lating storage chambers, comprising a tubular stem, laterally extending and downwardly directing branches therefrom, lateral holes in the stem, a hole in the base of the stem directing a current of air downwardly between the branches.

Signed at Melbourne, in the State of Victoria, this 6th day of Feb., A. D. 1917.

RUSSELL RAYSON.

Witnesses:

LUCY M. GREEN,

W. J. MCCAFFERTY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."