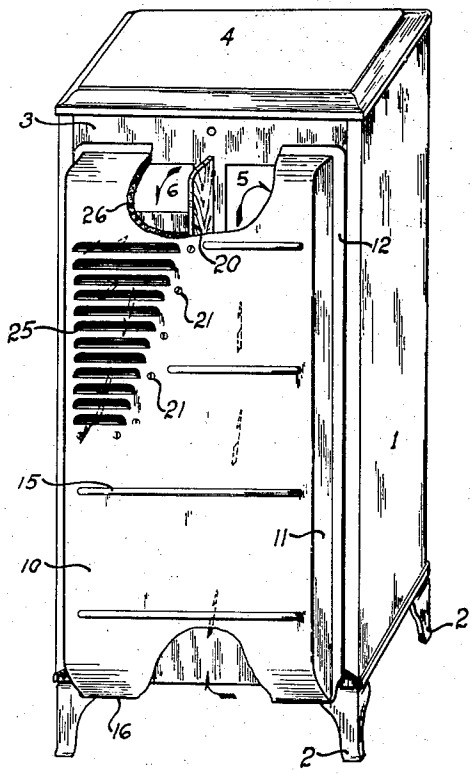
March 7, 1933. R. C. HAIMBAUGH 1,900,644

REFRIGERATION APPARATUS

Filed June 6, 1931



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Patented Mar. 7, 1933 1,900,644

UNITED STATES PATENT OFFICE

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REFRIGERATION APPARATUS

Application filed June 6, 1931. Serial No. 542,560.

This invention relates to refrigeration apparatus, and particularly to the construction of the cabinet. The refrigerating unit must have some means of dissipating the heat generated therein. If the apparatus is mounted at the top portion of the cabinet, but enclosed, special provision for the circulation of air or other cooling medium should be provided. In this instance, the invention resides in a flue construction in connection with the cabinet for providing a forced circulation of air to cool the refrigerating apparatus.

The single figure, with portions cut away, is a perspective view of a cabinet with the flue construction.

The cabinet, in general, may be of the usual construction, preferably of steel, and comprises a cabinet proper 1, mounted on legs 2. The cabinet is provided with a rear wall 3, while a top 4 is adapted to cover a chamber beneath it, in which is housed the refrigeration apparatus. This apparatus may be of any well-known type, and is provided with some means, such as a fan, or the like, for insuring a forced circulation of air. Access to the apparatus chamber is obtained by openings 5 and 6 in rear wall 3 of the cabinet. Disposed over rear wall 3 of the cabinet is a flue 10, preferably of sheet metal, having sides 11 and provided with suitable flanges 12, whereby the flue may be disposed snugly against the rear wall. The flue is preferably provided with a plurality of transverse beads 15 for strengthening purposes. The bottom portion of the flue 16 is clear of the cabinet so that at the cabinet wall a large entrance for air is created. The interior space enclosed by the flue is divided into two portions by means of a partition 20 connecting flue 10 and rear wall 3. This partition is suitably maintained in place by bolts 21. The shape of partition 20 is such as to provide a roughly triangular chamber bounded by bolts 21. Air is adapted to be sucked in the bottom of the flue and through aperture 5 into the apparatus chamber proper. The air then is expelled through aperture 6 on the other side of partition 20 and is adapted to be exhausted through a plurality of louvres 25. As shown, these vary in length, ranging from half the width of the flue to a small fraction thereof and following the contour of partition 20.

In order to reduce the noise due to air resistance along the surface of the conduits, I preferably line a portion of the walls of the exhaust conduit with felt or other soft material 26. If desired, the entire conduit surface on both the exhaust and inlet may be lined in this manner.

I claim:

1. A refrigerator cabinet having a chamber in the top portion thereof into which is adapted to be disposed a mechanical refrigerating unit requiring a circulation of cooling air, said chamber being closed at the top thereof, a side of said chamber having apertures therethrough whereby air may be sucked in and driven out from said apparatus chamber, a flue disposed over one side of said cabinet and covering said apertures, a partition dividing said flue into separate conduits, said flue being provided with an inlet mouth at the bottom thereof and with an exhaust at the upper portion thereof.

2. A refrigerator cabinet provided with a chamber in the top portion thereof into which is adapted to be disposed a mechanical refrigerating unit, said chamber being covered by the top of said cabinet, the side of said cabinet having a plurality of apertures therethrough whereby air may be sucked in and exhausted from said apparatus chamber, a flue disposed over the side of said cabinet and covering said apertures, a partition dividing said flue into inlet and exhaust portions and a lining of soft material for a portion of said flue to reduce air noise.

3. A refrigerator cabinet provided with a chamber in the top portion thereof into which is adapted to be disposed refrigerating apparatus, the side of said cabinet being apertured to permit the intake and exhaust of cooling air into said chamber, a flue disposed over said aperture on the side of said cabinet, a partition dividing said flue into intake and exhaust portions, the intake portion being provided with a mouth the full width of the

flue, the exhaust portion being provided with louvres in the flue and a lining of soft material in the exhaust portion of the flue for reducing air noise.

4. A refrigerator cabinet having a chamber in the top thereof in which is adapted to be disposed a mechanical refrigerating unit, said chamber being covered by said cabinet top and air inlet and outlet apertures on one side of said chamber, and a flue disposed over both apertures, said flue being partitioned into inlet and outlet conduits, the outer end of said inlet conduit adapted to be lower than the outer end of said outlet conduit.

In testimony whereof he affixes his signature.

RAYMOND C. HAIMBAUGH.