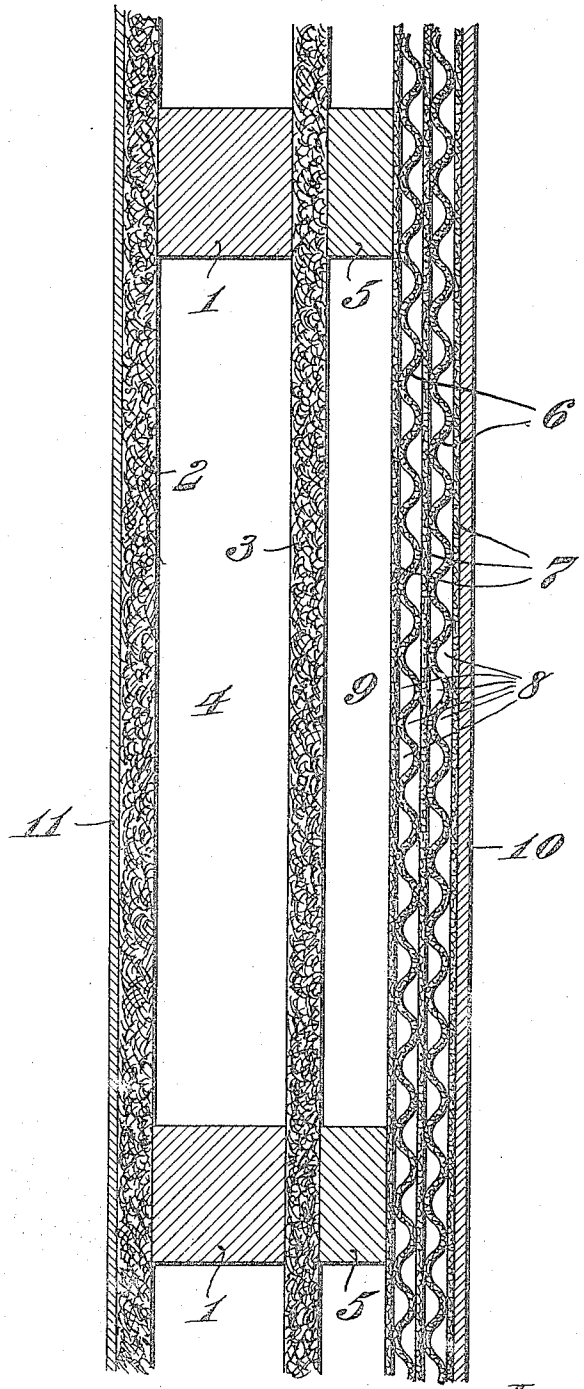
H. J. SMITH.

REFRIGERATOR WALL CONSTRUCTION.

APPLICATION FILED JULY 1, 1915.

1,179,773. Patented Apr. 18, 1916.



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REFRIGERATOR-WALL CONSTRUCTION.

1,179,773. Specification of Letters Patent. Patented Apr. 18, 1916.

Application filed July 1, 1915. Serial No. 37,570.

To all whom it may concern:

Be it known that I, HUGH J. SMITH, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Refrigerator-Wall Construction, of which the following is a specification.

My invention relates to refrigerator wall constructions, and the particular object of the same is to provide a construction for the walls of refrigerators and similar apparatus which will more effectively prevent the transmission of heat from the exterior to the interior thereof.

My invention contemplates the provision of a plurality of layers of insulating material separated to form dead air spaces therebetween and a layer of cellular insulating material arranged on the side toward the refrigerating chamber whereby transmission of heat through the wall will be reduced to a minimum.

The nature and characteristic features of my invention will be more readily understood from the following description taken in connection with the accompanying drawing forming part hereof which illustrates a cross section of a refrigerator wall construction embodying the main features of my invention.

Referring to the drawing in the particular embodiment of my invention therein shown, 1 represents the studding or framework of the refrigerator or other similar structure, on the outer side of which is secured a layer 2 of insulating material preferably composed principally of asbestos fibers in compressed sheet or board like form. Upon the other or inner side of the studding 1 there is also secured a similar layer 3 of the same or similar material whereby there is provided a space 4 which it should be understood is sealed to the exterior and constitutes a dead air space between the sheets 2 and 3. Upon the inner surface of the sheet 3 there are mounted furring strips 5 of any suitable material upon which is secured a layer of cellular asbestos covering made of one or more sheets of corrugated asbestos board 6 interposed between flat sheets 7 of asbestos board whereby there is provided a multiplicity of air cells 8. The furring 5 upon which the cellular structure is mounted serves to provide another dead air space 9 interposed between the cellular structure and the centrally arranged sheet 3. On the interior of the wall there may be provided a layer of porcelain, zinc or other suitable sanitary material 10 for the lining of the refrigerator, and likewise there may be provided on the exterior of the wall a covering sheet 11 of metal, wood or other suitable material for the purpose of finish.

It will be seen that there is thus provided a wall construction in which the possibility of transmission of heat to the interior of the refrigerator will be reduced to a minimum. The successive layers of insulating material separated by dead air spaces will effectively diminish the transmission of heat by radiation and conduction while the layer of cellular insulating material next to the interior will prevent the transmission by convection.

Having thus described the nature and characteristic features of my invention what I claim as new and desire to secure by Letters Patent is:—

1. A refrigerator wall construction comprising a plurality of layers of insulating material separated by dead air spaces and a layer of cellular insulating material mounted on the inner side.

2. A refrigerator wall construction comprising a plurality of layers of insulating material containing asbestos fibers in compressed sheet or board like form separated by dead air spaces, and a layer of cellular insulating material mounted on the inner side and also containing asbestos fibers.

3. A refrigerator wall construction comprising a plurality of layers of insulating material containing asbestos fibers in compressed sheet or board like form separated by dead air spaces, and a layer of cellular insulating material mounted on the inner side comprising one or more sheets of corrugated asbestos board interposed between flat sheets of asbestos board.

In testimony whereof, I have hereunto signed my name.

HUGH J. SMITH.