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W. R. VOWELS

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WINDOW COOLER

Filed Sept. 26, 1923

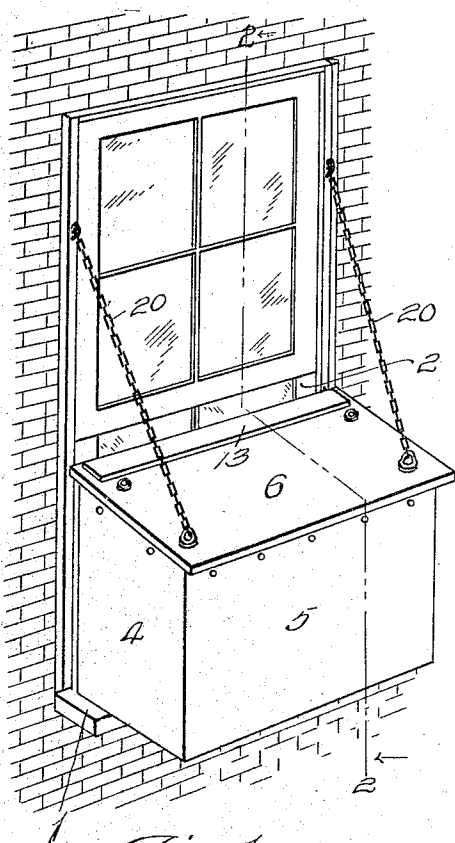


Fig. 1.

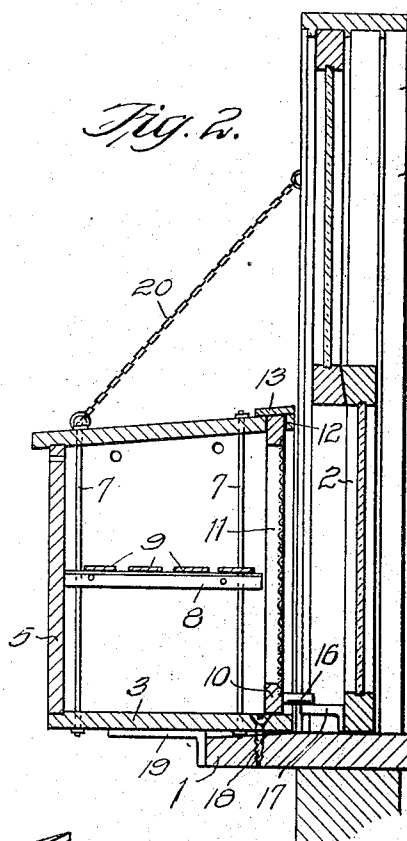


Fig. 2.

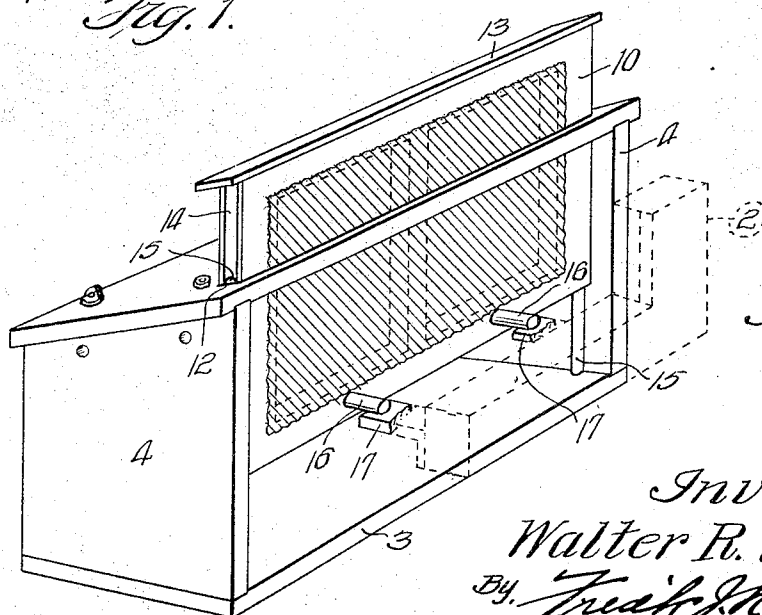


Fig. 3.

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UNITED STATES PATENT OFFICE.

WALTER R. VOWELS, OF ST. LOUIS, MISSOURI.

WINDOW COOLER.

Application filed September 26, 1923. Serial No. 664,870.

To all whom it may concern:

Be it known that I, WALTER R. VOWELS, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Window Coolers, of which the following is a specification.

My invention relates to window coolers, and is a distinct and practical improvement to overcome certain practical objections to, and defects in the present type of window cooler, or cold air refrigerator.

The object of my invention is the provision of a window cooler which may be sold in knock-down condition, if desired, and quickly assembled for setting in position upon the outer window sill.

A further object of the invention is the provision of a window cooler having a vertically slidable closure adapted to be raised by the lower sliding sash of a window in its upward movement.

A further object of the invention is the provision of a window cooler having a slidable closure which will close by gravity when the lower sash is lowered.

A still further object of the invention is the provision of a window cooler, the several parts of which are rigidly held together in assembled position by means of a plurality of corner tie rods.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claims hereto appended.

Referring to the accompanying drawing forming a part of this specification, wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is a perspective view of the outside of a window and my improved cooler positioned upon the outer sill thereof.

Fig. 2, is a sectional view of the invention taken on line 2—2 of Fig. 1.

Fig. 3, is a view in perspective of the window cooler, showing the closure therefor partly raised.

Referring to the drawings, the reference character 1 represents the outer sill of a window, and, 2 the lower sliding sash of window.

In carrying out the aim of my present invention, I provide a cooler box or receptacle which consists of the bottom 3, the end, or

side walls 4, the front wall 5 and the top, or roof 6. These members when assembled are rigidly united and tied together by means of four suitable corner tie rods 7.

A suitable cleat 8 is fixed to the inner face of each end wall 4 and a suitable removable shelf 9 is supported thereby.

10 represents a sliding closure for the cooler receptacle which consists of a suitable frame having the opening or openings 11 thereof covered with a suitable wire mesh to permit ventilation of the cooler when the closure is in its closed position. The closure 10 is receivable in a slotted passage 12 in the top or roof 6 and is provided at its upper end with a suitable cap 13 to seal the opening or passage 12 when the closure is down to prevent the elements from finding access to the cooler through the passage 12. The side, or end faces of the sliding closure are longitudinally grooved, as at 14 to receive the tongue 15 fixed to the inner face of each end wall 4, as shown in Fig. 3.

A plurality of suitable closure raising pins 16 are fixed to the lower rail of the screened closure 10 and extend toward the lower rail of the lower sliding window sash 2. A plurality of suitable pin engaging arms 17 are fixed to the lower rail of the lower sliding sash 2 and upon which the raising pins 16 rest and engage so that whenever the lower sash is raised, as shown in dotted lines in Fig. 3, the screened closure to the cooler will also be raised therewith to permit access to the food compartment of the cooler from within a room through the window when the lower sash has been raised. When the lower sash is lowered, the screened closure closes itself by means of gravity, as is manifest.

The cooler may, or may not be fixed to the outer sill of the window by means of suitable fastening devices 18. Suitable supporting brackets 19 may also be employed to assist in supporting the cooler when desired. Further supporting means may also be employed for holding the cooler in a rigid position upon the outer sill 1, which may be in the form of chains, rods, or their equivalent 20, which are connected at their lower ends to the roof of the cooler and to the window frame at their upper ends, as shown in Fig. 1.

It is evident from the foregoing description, that I provide a strong, durable, simple, inexpensive and practical cold air

cooler for application to window sills upon the outside of the lower sliding window sash, so that whenever the lower window sash is raised, the screened closure for the cooler will be simultaneously raised there-
 5 with permitting access to the food compartment of the cooler from within a room. A cooler constructed and installed as herein-
 10 before described will prove highly efficient for the purpose intended.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which it appertains.

15 I do not desire to be understood as limiting myself to the exact details of construction and arrangement of parts as herein described and illustrated, as it is manifest that variations and modifications may be
 20 made without departing from the spirit and scope of my invention and the terms of the following claims, hence I wish it to be understood that I reserve the right to make
 25 any such changes, or modifications as may fairly fall within the scope of the appended claims when fairly construed.

What I claim is:

1. In a cooler structure, in combination with a sliding window sash, a window cooler
 30 box having a slotted passage in the roof thereof, a screen closure for the box vertically movable through said passage and projections extending forwardly from the lower
 35 edge of the screen closure and means extending from the lower rail of the sliding window sash adapted for engagement with
 said projections for raising the closure simultaneously with the raising of the window sash.

40 2. In combination with an outer window sill and a sliding window sash, of a cooler box comprising a bottom, a back wall, end
 walls and a roof, a tie rod for each corner of the box connecting the bottom with the
 45 roof for rigidly uniting the members of the box, a screened closure for said box forming the front side thereof, said closure being passable through a slotted opening in the
 50 roof of the box to permit vertical sliding movement thereof, a cap for said closure,

a tongue and grooved ends for the closure, raising pins fixed to and extending forwardly from the closure and means extending from the sliding window sash engage-
 55 able with the lifting pins of the closure for raising the closure simultaneously with the raising of the window sash.

3. In a cooler of the class described, in combination with a sliding window sash, of a box having a bottom mounted upon an
 60 outer window sill, means for retaining the box in position upon the sill, a vertically slidable screened closure for the front side of said box, said box having a slotted opening in the roof thereof through which the
 65 closure can pass, a cap for the closure, end means for guiding the closure in its sliding movements, lift pins extending forwardly from the closure and means engageable with
 70 said pins for simultaneously raising the box closure with the raising of the sliding sash.

4. In a cooler of the class described, in combination with an outer window sill and a sliding window sash, of a cooler box comprising a bottom supported by the window
 75 sill, a back wall, end walls, a roof, corner tie rods for rigidly uniting the back and end walls with the bottom and the roof, cleats carried by the end walls, a shelf supported
 80 by said cleats, said roof having a slotted opening therein near its forward edge, a closure frame vertically slidable through said opening, a tongue carried by each end
 85 wall, a groove formed in each end face of the closure frame to receive said tongue to provide a tongue and groove connection between the ends of the closure frame and the
 90 end walls, a cap member for the upper end of said closure frame, a wire mesh covering for said closure frame, lift pins extending from the closure toward the sliding sash
 95 and means extending from the sliding sash toward the closure frame adapted to engage the lift pins for raising the closure frame to the cooler box simultaneously with the raising movement of the sliding sash.

In testimony whereof, I have hereunto signed my name to the specification.

WALTER R. VOWELS.