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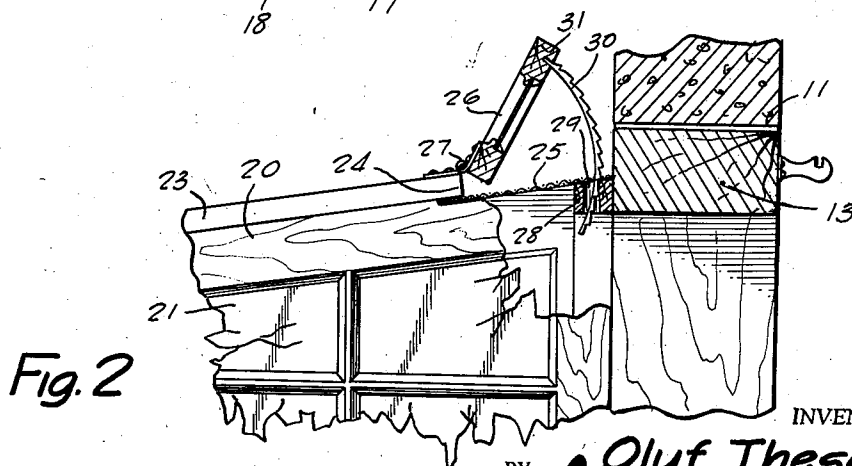
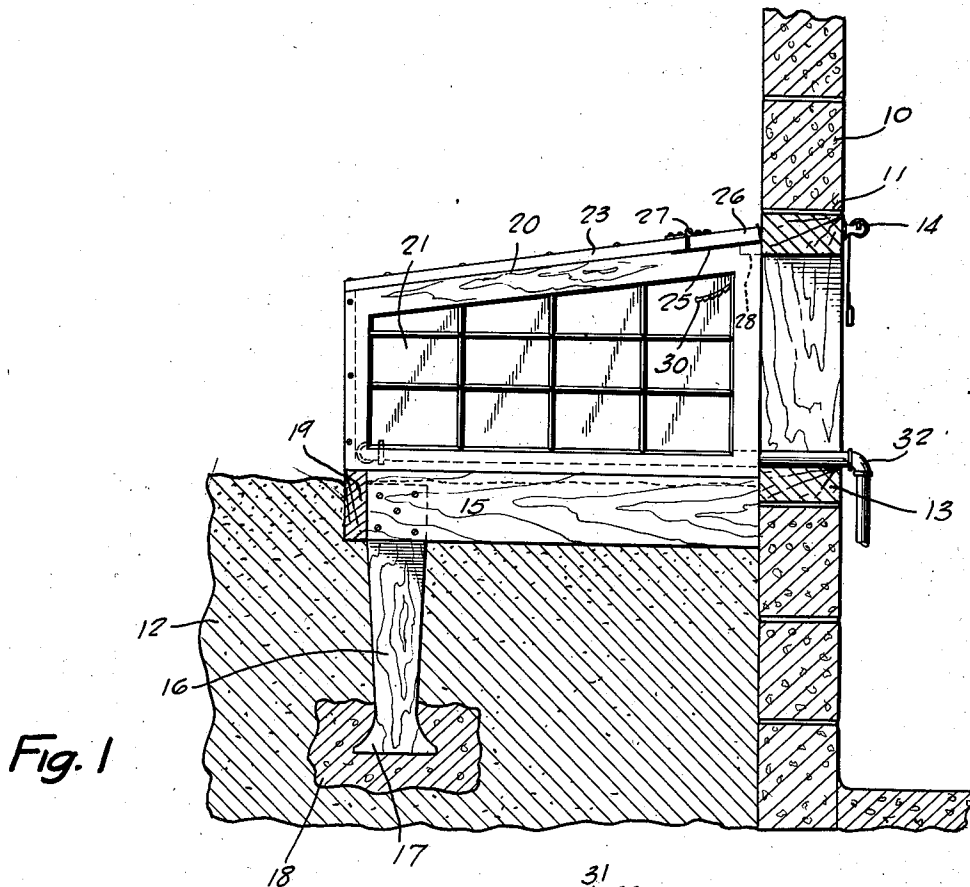
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2,086,247

WINDOW FRAME HOTHOUSE

Filed July 21, 1936

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

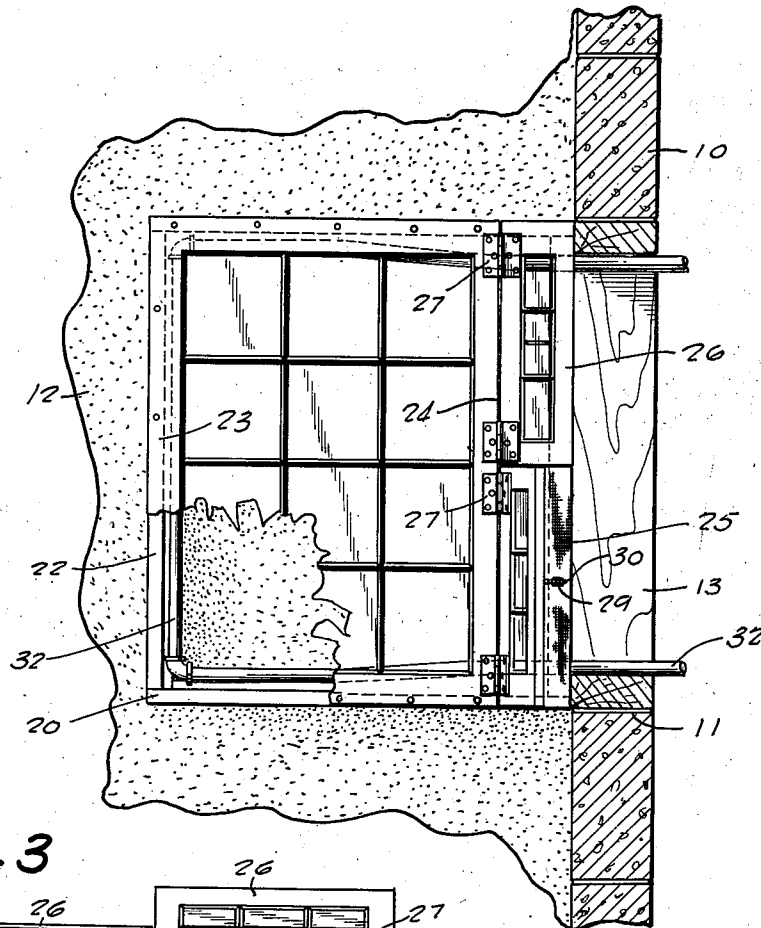


Fig. 3

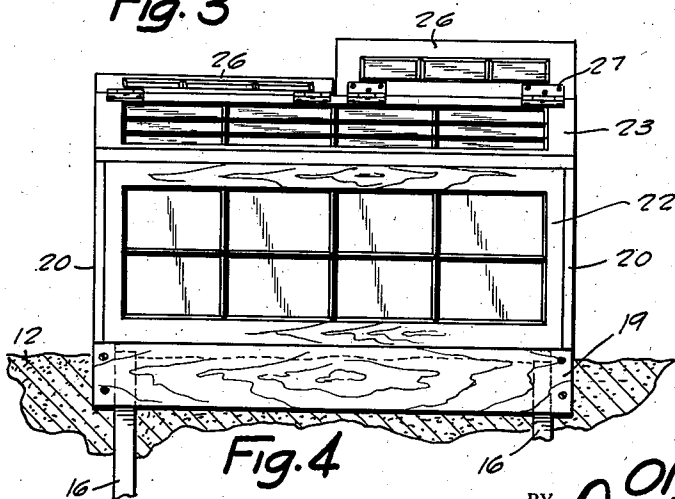


Fig. 4

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WINDOW FRAME HOTHOUSE

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6 Claims. (Cl. 47-19)

This invention deals with hothouse constructions, and is concerned primarily with that type of hothouse which is associated with the window of a house or other building.

5 Prior to this invention there have been proposed certain attachments which have been applied to window frames to provide something in the nature of a hothouse, but it has been the practice to support the box or house construction entirely from the window or the contiguous wall structure. As a result the distance outward from the window to which these hothouse boxes may extend has been confined within definite safe limits, due to the fact that the box out-stands from the wall and is supported only from the wall itself.

10 The present invention departs from the above noted practice by providing a hothouse construction which in addition to being attached to a support at a window opening it is further supported at points removed from the wall on which the window opening is formed, by the ground itself.

15 More in detail this invention proposes to provide a hothouse of the type noted which is attached to a window opening, with the latter being preferably located close to the ground, as, for instance, in the foundation of a building.

20 Such windows as basement windows have been found to be particularly adaptable to having a hothouse of this type applied thereto. The hothouse may extend outwardly from the window as far as the interior may be conveniently reached from the window, and the side and end walls are supported directly on the ground.

25 The invention has in view as a further and more detailed object the provision of means for anchoring the end of the hothouse, which is remote from the wall, to the ground. In carrying out this idea one or more legs are provided which depend from the hothouse at points remote from the wall, and these legs are embedded in a concrete base which is provided in the ground.

30 Yet another object of the present invention is the provision of a hothouse attachment of the type noted, which is applied to a basement window in the manner indicated, and which avails of the ground itself as the bed in which the plants are nursed.

35 With this arrangement assurance is had that any plants which are grown or nursed in a hothouse will receive nutrition from the soil, as the latter element is not limited by any bottom walls or boards.

Yet another object of the present invention is the provision of a hothouse of the type noted, which includes a top which is provided with ventilators which are arranged to be opened, and at the same time afford a certain measure of protection against the weather elements.

40 More in detail this invention proposes a construction in which the top of the hothouse adjacent to the wall of the basement is formed with one or more hinged panels which have their free edges substantially adjacent to the wall, and their hinged edges spaced therefrom. When this panel is swung upwardly on the hinges to provide ventilating effects the wall of the building on one side, and the panels themselves on the other afford a certain measure of protection against the weather elements, as will hereinafter be pointed out in detail.

45 Various other more detailed objects and advantages, such as are associated with the carrying out of the above noted thoughts in a practical embodiment will in part become apparent and in part be hereinafter stated, as the description of the invention proceeds.

50 The invention, therefore, comprises a hothouse which is applied to a basement window, and which extends outwardly from the wall in which the window is formed. The walls of the hothouse are supported directly from the ground, and the extremity of the hothouse which is remote from the wall is anchored to the ground by having depending legs embedded in concrete.

55 The ground itself constitutes the floor or bottom of the hothouse, and the top thereof is provided with hinged ventilators which have their free swinging edges disposed adjacent to the wall of the building.

For a full and more complete understanding of the invention reference may be had to the following description and accompanying drawings, wherein:

Figure 1 is a side view, partly in section and partly in elevation, of a hothouse construction applied to a basement wall in accordance with the precepts of this invention.

45 Figure 2 is an enlarged detailed side view, showing one of the ventilating panels in open position.

Figure 3 is a top plan view with certain parts broken away, and

50 Figure 4 is an end elevational showing.

Referring now to the drawings, wherein like reference characters denote corresponding parts, a basement wall is indicated at 10, and as illustrated in the drawings may be made from any

appropriate concrete or building block composition. The wall 10 is formed with a window opening designated 11, and it is notable that the bottom wall of the window opening 11 is in fairly close proximity to the level of the ground on the exterior of the wall 10; this ground being referred to by the reference character 12.

In those cases where there is any discrepancy between the level of the ground 12 and the level of the bottom opening of the window 11, sufficient soil may be filled in to bring these two into a substantially flush relationship.

Mounted in the window opening 11 is a sash structure designated 13, and the upper portion of this sash structure may support a window shade, as shown at 14.

Attached to the sash member 13, and extending outwardly from the wall 10 are a pair of side foundation members 15, which may be made from any appropriate material, such as wood; there being one of these members located at each side of the window 11.

At the end remote from the wall 10 each of the side foundation members 15 is formed with a leg 16 that extends down into the ground, and has a foot, shown at 17, embedded in a block of concrete indicated at 18. This arrangement of embedding the feet 17 of the legs 16 in the concrete 18 provides for a firm anchorage of the side foundation members 15.

At the extremities remote from the wall 10 the members 15 are joined together by an end piece 19 to complete a foundation which supports the panel construction of the hothouse. The soil which is contained between the side members 15, the member 19, and the wall 10 constitutes the bed of the hothouse.

Supported on each of the side members 15 is a panel wall structure designated 20, which has its upper edge beveled, to provide a slanting top, as shown in Figures 1 and 2. This side structure 20 may include as many panes of glass 21 as circumstances dictate.

An end panel structure is shown in Figure 4 as mounted on the end foundation member 19, and is referred to as 22. This member 22 extends between the side panel structures 20.

The main top of the hothouse is defined by a top panel structure designated 23, which terminates along a line which is spaced from the wall 10; this edge of the panel being indicated at 24. The space between the edge 24 and the wall 10, which at times is designed to be opened by hinged ventilators, in a manner to be hereinafter described, is preferably protected by a wire screen shown at 25.

As shown in Figure 3, two hinged ventilators 26 are provided, although the invention is not to be limited in this respect, as this number can be varied as occasion demands.

Each of the members 26 is hinged to the edge 24 of the top panel structure 23, as shown at 27, and the free edge of each of the members 26 ordinarily rests on a flange 28, which extends outwardly from the top of the sash 13.

Centrally of each ventilator 26 the flange 28 is formed with an opening 29, as shown in Figure 2, and an arcuate supporting member 30 extends through each of these openings. This member 30 is notched, as clearly shown in Figure 2, and has one end anchored to the ventilator 26, as shown at 31.

When the ventilator 26 is swung into open position one of the notches of the member 30 will engage the edge of the opening 29, to maintain the ventilator in an adjusted open position.

Any appropriate means for heating the interior of the hothouse may be provided, but a preferred arrangement is shown in which pipes 32 extend inwardly through the opening 11, and about the bed of the hothouse. Steam or hot water may be passed through the pipes 32 in a well-known manner, to provide the desired heat effects.

It is evident that with the arrangement of ventilators 26, which are shown in the drawings, good protective effects against the weather elements are provided. When these members are swung into an open position, as shown in Figure 2, the wall 10 on one side, and the ventilators 26 themselves on the other, afford a good measure of protection for the opening which provides ventilation.

While a preferred specific embodiment of the invention is hereinbefore set forth, it is to be clearly understood that I am not to be limited to the exact constructions illustrated and described, because various modifications of these details may be provided in putting the invention into practice within the purview of the appended claims.

I claim:

1. In combination, a wall upstanding from the ground and having a window opening defined by upper, lower and side edges, a hothouse extending outwardly from the wall at the window opening, said hothouse having side walls extending outwardly from the side edges of the window opening and a top extending outwardly from the upper edge of the window opening and means at the end of the hothouse which is remote from the wall for anchoring said hothouse in position.

2. In combination, a wall upstanding from the ground and having a window opening defined by upper, lower and side edges, a hothouse extending outwardly from the wall at the window opening, said hothouse having side walls extending outwardly from the side edges of the window opening and a top extending outwardly from the upper edge of the window opening and means at the end of the hothouse which is remote from the wall for anchoring said hothouse in position, said means comprising a leg having its extremity embedded in concrete.

3. In combination, a wall upstanding from the ground and formed with a window opening defined by upper, lower and side edges, the lower edge of which is substantially flush with the ground from which the wall upstands, a hothouse extending outwardly from said window opening and supported by the said ground, said hothouse comprising side walls which extend outwardly from the side edges of the window opening and a top which extends outwardly from the upper edge.

4. In combination, a wall upstanding from the ground and formed with a window opening defined by upper, lower and side edges, the lower edge of which is substantially flush with the ground from which the wall upstands, a hothouse extending outwardly from said window opening and supported by the said ground, said hothouse comprising side foundation members embedded in the ground and extending outwardly in alignment with the side edges of the window opening, an end foundation member connected to said side members and also embedded in the ground, and panel structures mounted on said foundation member.

5. In combination, a basement wall upstanding from the ground and formed with a window opening, the lower edge of which is substantially

- flush with the surface of said ground, a hothouse extending outwardly from the wall at the window opening and supported by the ground, said hothouse being formed with a top including a ventilator, said ventilator having a free edge substantially adjacent to the wall and being hinged along an edge remote from the wall, and means for maintaining said ventilator in an adjusted open position.
- 5 6. In combination, a basement wall extending upwardly from the ground and including a window opening having a lower edge substantially flush with the surface of the ground, side foundation members extending outwardly from the edges of the window opening and embedded in the ground, an end foundation member connecting the extremities of the side foundation members and also embedded in the ground, legs depending from the foundation members and having feet embedded in concrete beneath the surface of the ground, side and end panel structures carried by said foundation members, and a roof carried by said side and panel structures, said roof including a ventilator which is hinged along a line spaced from the wall of the house and having a free edge substantially adjacent to the wall when the ventilator is in closed position, and means for maintaining the ventilator in an adjusted opening position.
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