

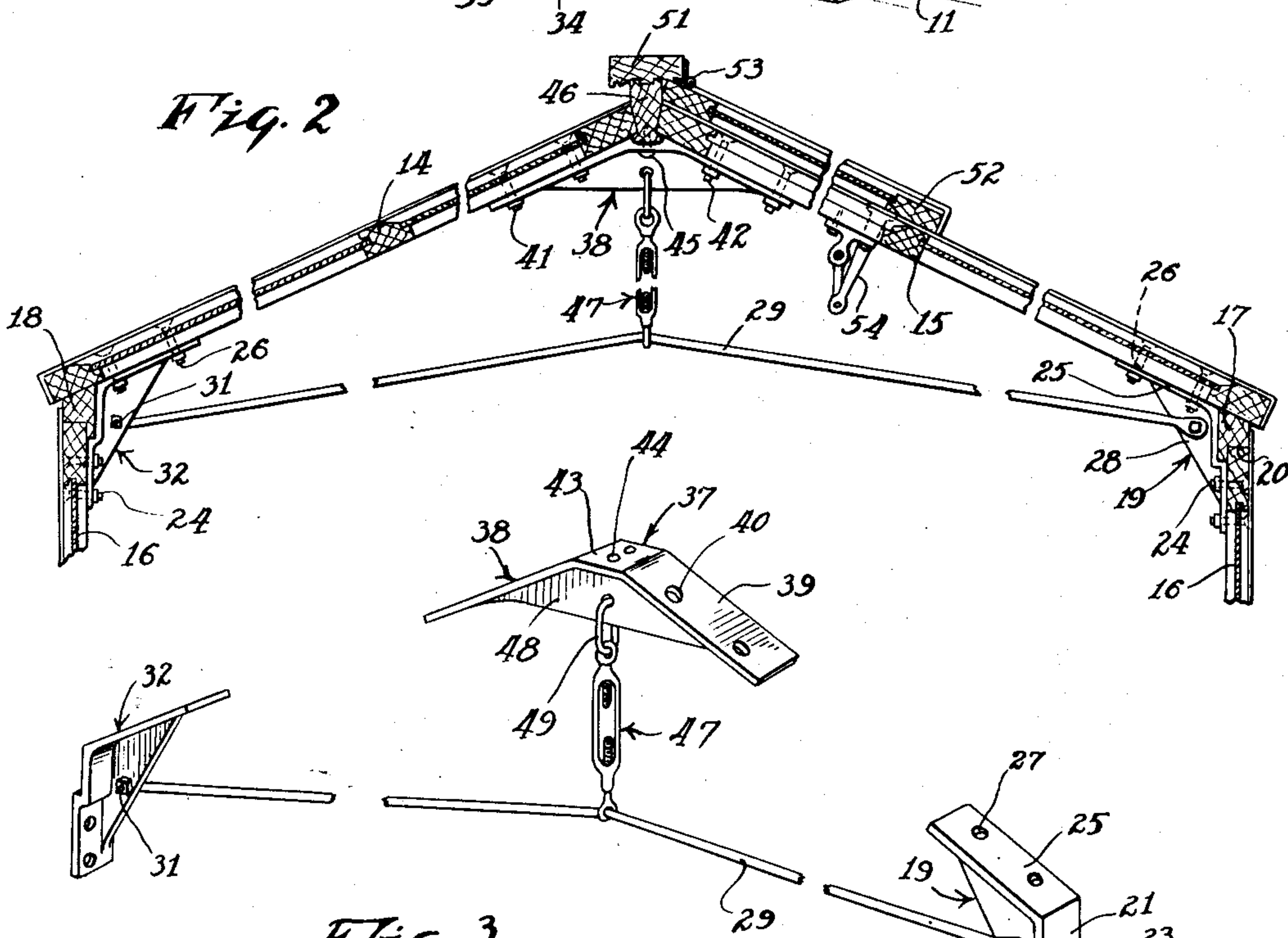
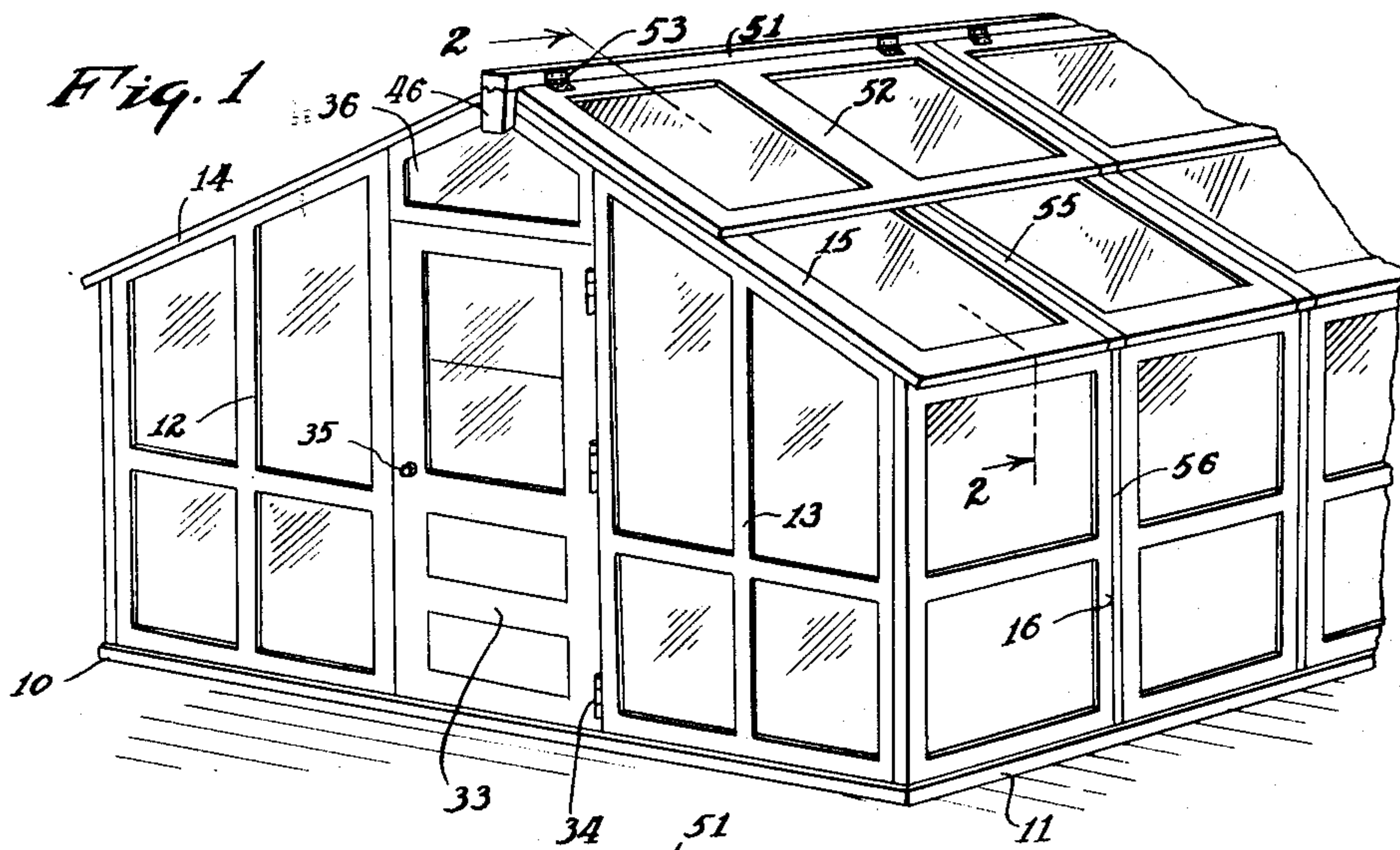
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PREFABRICATED GREENHOUSE

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*Fig. 3*

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## UNITED STATES PATENT OFFICE

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## PREFABRICATED GREENHOUSE

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1 Claim. (Cl. 108—1)

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This invention relates to prefabricated greenhouses.

It is an object of the present invention to provide a prefabricated greenhouse which is easy to assemble and can be done by the purchaser with but a simple tool and without the assistance of a mechanic.

It is another object of the invention to provide for a portable greenhouse a simple bracing arrangement comprising top and side brackets, a bar extending between the side brackets and a turn buckle device extending between the bar intermediate its length and the top bracket so that by a simple adjustment of the turn buckle device, the parts of the greenhouse are brought into proper alignment and retained against outward spreading movement.

Other objects of the invention are to provide a prefabricated greenhouse which is of simple construction, inexpensive to manufacture, weather-tight, easy to package and delivered all glazed, eliminates the services of a greenhouse builder, has simple bracket supporting arrangement, of pleasing appearance and efficient in use.

For other objects and for a better understanding of the invention reference may be had to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a perspective view of the prefabricated greenhouse embodying the features of the present invention;

Fig. 2 is an enlarged fragmentary transverse sectional view of the greenhouse looking upon the bracket and rod supporting arrangement;

Fig. 3 is a perspective view of the bracket and rod arrangement removed from the panels of the greenhouse.

Referring now to the figures, 10 represents a front sill and 11, a side sill. These sills can be mounted upon concrete blocks inserted in the ground in an endwise fashion and into which a bolt is extended and fixed by the filling of the concrete block with cement. This bolt will extend upwardly through the sill and serve to anchor the sill to the concrete block and to the ground. On the front of the greenhouse are upright pre-glazed panels or sashes 12 and 13, having inclined upper edges for receiving roof sash sections 14 and 15 respectively and also pre-glazed. Extending along the sidesills and extending upright are side sash sections 16. The end section joins with the upright sections of the undersides of the front sash sections 12 and 13. An eave sill 17 extends along the top edges of the side sash sections 16 at one side of the

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greenhouse and an eave sill 18 similarly extends along the far side of the greenhouse and over the upper edges of the sash 16 at that side thereof. An eave fitting 19 receives the eave sill 17. The sill 17 is thicker than the sash section and is recessed along its lower edge to receive the section. This recess is indicated at 20. The inner face of the eave sill lies in a recess 21 on the eave fitting 19. This fitting 19 is flanged and has a vertical flange portion 22 with holes 23 therein through which bolts 24 extend into the side sash sections. A top inclined flange 25 receives and supports the top sash 15 that is secured thereto by bolts 26 extending through holes 27 of the top inclined flange portion. The web 28 extends between the flanges. To this web 28 there is connected a tie rod 29 by means of a bolt 30. This tie rod extends across to the opposite side of the greenhouse and connects by bolt means 31 with the similar eave fitting 32 which supports the eave sill 18. Similar bolts secure the side sash sections and the top sash sections to the flange portions of the eave fitting 32.

Disposed in the front of the greenhouse between the front sash sections 12 and 13 is a door 33 which is hinged as indicated at 34 to the front sash section 13 and has a handle 35. Above the door is a small front section 36.

In the top of the greenhouse is a ridge fitting 37 having side flange portions 38 and 39 with holes 40 therein for receiving bolts 41 and 42 for respectively securing the top sash sections 14 and 15 with the bracket. This bracket or ridge fitting has a top horizontal portion 43 with openings 44 therein through which screws can be extended as indicated at 45 to secure ridge 46 to the ridge fitting 37.

The turn buckle device 47 connects with web 48 of the ridge fitting 37 by a link 49 and with the tie rod 29. By turning this turn buckle a tightening action can be effected on the tie rod 29 so as to buckle the same and to draw inwardly the eave fittings and the parts connected therewith, whereby to provide a staple and rigid structure for the greenhouse. There may be several of these arrangements located along the inner top part of the greenhouse. It will be seen that these fittings can be easily connected to the sash sections by the simple connecting of the tie rod 29 between the side fittings and the turn buckle device between the intermediate point on the tie rod 29 with the ridge fitting and a very satisfactory and effective tie structure has been provided.

Secured along the top of the ridge is a ridge



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cap 51. The top sash sections 15 are open at the top half for ventilation purposes. The amount of air passing through the open top half of these sections is controlled by the hinge roof vent sash 52 that spans two roof sash sections. These roof vent sashes are hinged to the ridge cap by hinges 53 and an operating device 54, shown in part, is connected to the roof vent sash to elevate the same when desired.

Batten strip extends between roof sash sections, as indicated at 55 and between side sash sections as indicated at 56. These batten members make for a weather-tight construction.

It should now be apparent that there has been provided a greenhouse capable of being packaged and shipped to a location where it is to be assembled. It will also be seen that the assembly thereof can be effected with few tools and by the purchaser. It will also be seen that there has been provided the bracing structure or arrangement including fittings of a shape to be easily connected with the sash sections and wherein by the easy turning of the turn buckle device, the arrangement can be tightened to provide a rigid top structure.

While various changes may be made in the detailed construction, it shall be understood that such changes shall be within the spirit and scope of the appended claim.

What is claimed is:

A greenhouse construction comprising bottom sills, front and side sash sections assembled upon such sills, eave sill members extending across the side sash sections, eave fittings connected to the side sash sections and against the eave sill there-

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of, roof sash sections extending along the eave sill, a ridge fitting, a ridge extending along the top of the fitting, the roof sash sections uniting with the sides of the ridge, a tie rod extending between the eave fittings, a turn buckle device connected between the ridge fitting and an intermediate point on the tie rod, whereby the tie rod may be buckled and pulled upwardly to secure the sides of the greenhouse against spreading action, said eave fittings having recesses receiving the eave sills and flanges engaging the side and roof sash sections, flanges on said ridge fitting engaging with the roof sash sections, bolt means securing said roof sash sections thereto, said ridge fitting having a flat top portion, said ridge being secured to said flat top portion of the ridge fitting, said fittings having web portions, said web portions of the side eave fittings having tie rod ends respectively secured thereto and the web portion of the ridge fitting having the turn buckle device connected thereto.

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