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PORTABLE HOUSE.

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1,256,393. Patented Feb. 12, 1918.

Fig. 1.

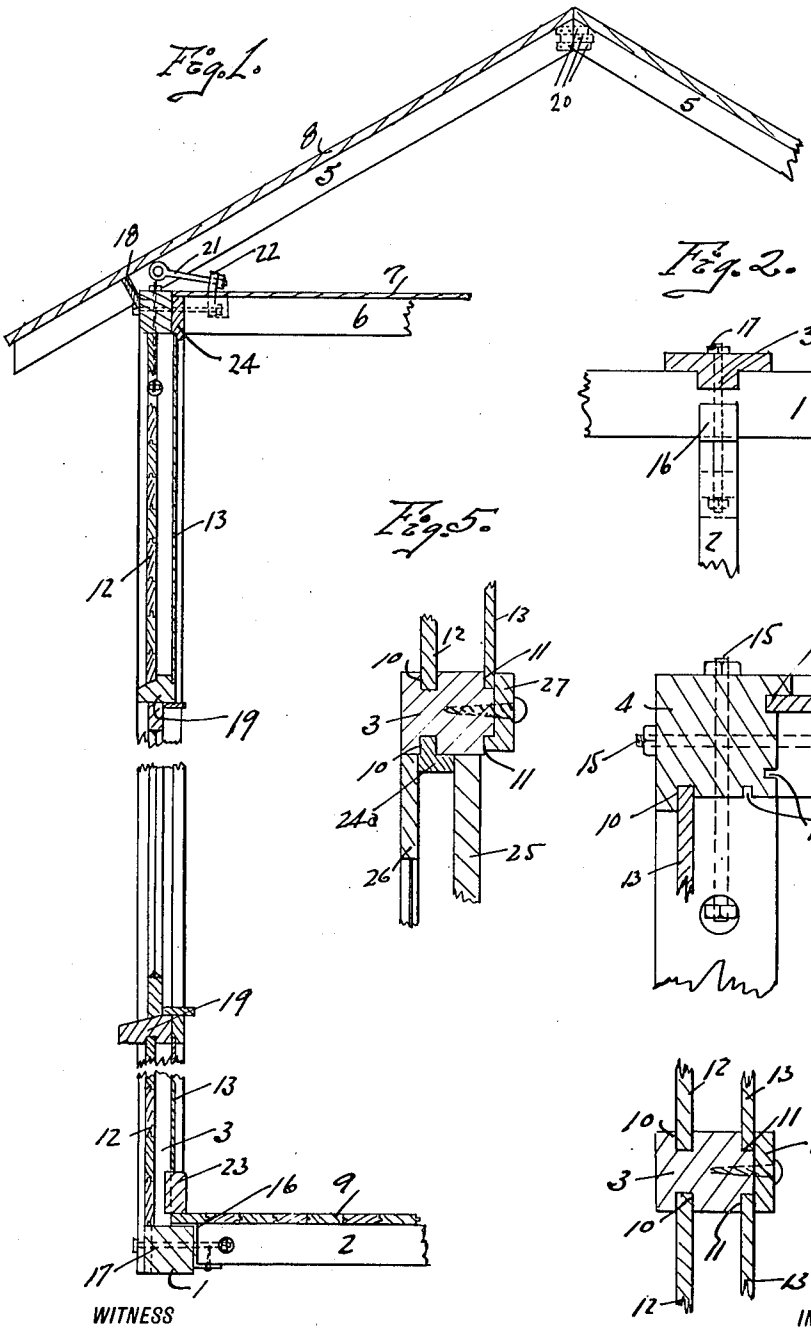


Fig. 2.

Fig. 5.

Fig. 3.

Fig. 4.

WITNESS

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PORTABLE HOUSE.

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To all whom it may concern:

Be it known that I, WILLIAM S. THOMAS, a citizen of the United States, and a resident of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Portable Houses, of which the following is a full, true, and exact specification.

My invention relates to portable houses and has for its principal object to provide an improved and novel house of the portable and knock down type; to provide construction features which permit of the house being erected in sections by the use of fastening bolts and screws only; to provide special forms of posts and studs which permit of easy erection and of double construction. In the erection of portable, sectional and knock down houses, it is important that they possess as many of the good features of a monolithic house as possible, such as rigidity, double construction, weather proofness, etc., as well as ease of erection and transportation. All of these features it is believed have been combined in my improved house.

Other objects will appear as my invention is more fully explained in the following specification, illustrated in the accompanying drawings and pointed out in the appended claim.

Figure 1 is a vertical cross section through one side of my house. Fig. 2 is an enlarged detail view showing the joining of a sill, a stud and a floor joist. Fig. 3 is a similar view of a corner post and sills. Fig. 4 is an enlarged detail view of a joist and inside and outside sheeting. Fig. 5 is a similar view of a door jamb stud.

Referring more particularly to the drawings, numeral 1 indicates sills, 2 floor joists, 3 studs, 4 corner posts, 5 rafters, 6 ceiling joists, 7 ceiling, 8 roof boards and 9 flooring. The studs and posts are all grooved on both sides as at 10 and 11 to provide recesses for outside boarding 12 and inside boarding 13 respectively. The rabbets 11 are open on the inside on the studs so that the inside boarding may be placed after the studs and outside boarding has been erected. A casing 14 is secured to the inside of the studs by screws and holds the inside boarding in place. The sills 1 and posts 4 are bolted together by bolts 15 as shown in Fig. 3. The floor sections, which consist of several joists 2 and the floor 9 secured to them, are then placed. Each end of each floor joist 2 is carried on a stirrup 16 which rests on the sill 1. The studs 3 are then erected one opposite the end of each floor joist. The lower ends of the studs are cut away and let into the sills as shown in Fig. 2 so as to form a positive and tight joint. A bolt 17 secures the sill, joist and stud tightly together. Wall plates 18 are next bolted to the studs. The outside sheeting 12 and any window frames 19 etc., are next placed in the grooves 10 in the studs and posts. Ceiling joists 6 and ceiling 7 are put together in sections and the joists are bolted to the caps 18. Roof sections consisting of rafters 5 and boarding 8 are erected on the wall plates, the peaks of the rafters being held in line by a joint consisting of three strips 20, the outside two of which are mounted to one rafter and center one is mounted to the other rafter. When dovetailed together they prevent separation of the rafters. The rafters are held to the caps by special ties consisting of a tie rod 21 pivoted to the rafter at one end, the other end passing through a clip 22 which is set into the joist 6 and held by the bolt which fastens the joist to the wall plate. When the bolt 21 is tightened by means of a nut, the rafter and wall plate are drawn tightly together. The inside boarding 13 is placed last preferably together with a base strip 23 and header 24. At door openings, a special stop strip 24ª is set in the outer board groove 10 and provides a stop for both the door 25 and screen door 26. By use of the stop 24ª and a special inside casing 27, a good frame is formed without the use of a special stud.

It will be noted that by means of only one form of stud the entire frame is put up around the corner posts, that the building is securely fastened together with only bolt and screw fastening means; that my house is of extremely simple construction and possesses the advantages of a good interior finish and double construction.

While I have shown a particular form of embodiment of my invention, I am aware that many minor changes therein will readily suggest themselves to others skilled in the art without departing from the spirit and scope of the invention, and I therefore

desire to avoid being limited to the exact form shown and described, except as pointed out in the appended claim.

Having described my invention, what I claim as new and desire to protect by Letters Patent, is—

In a portable house frame, the combination of rabbeted studs secured to sills, wall plates secured to the tops of said studs, rafters resting on said wall plates, ceiling joists secured to the said wall plates and means for securing said rafters to said wall plates and joists, said means including eyebolts pivotally secured to the rafters and passing through clips set into the joists and bolts which secures the said clips, joists and studs together.

WILLIAM S. THOMAS.