March 18, 1924. 1,487,583

A. LOEFFLER

PORTABLE BUILDING

Filed Aug. 23, 1921 4 Sheets-Sheet 1

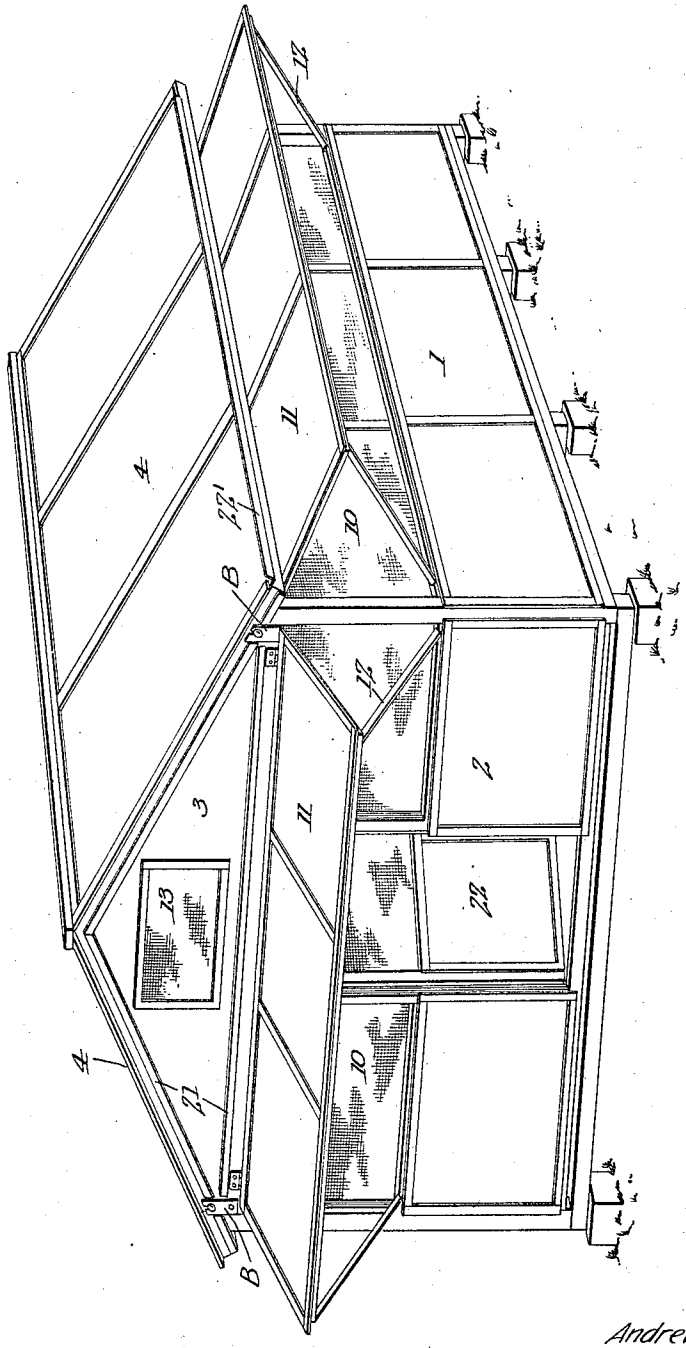


Fig. 1.

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A. LOEFFLER

PORTABLE BUILDING

Filed Aug. 23, 1921 4 Sheets-Sheet 2

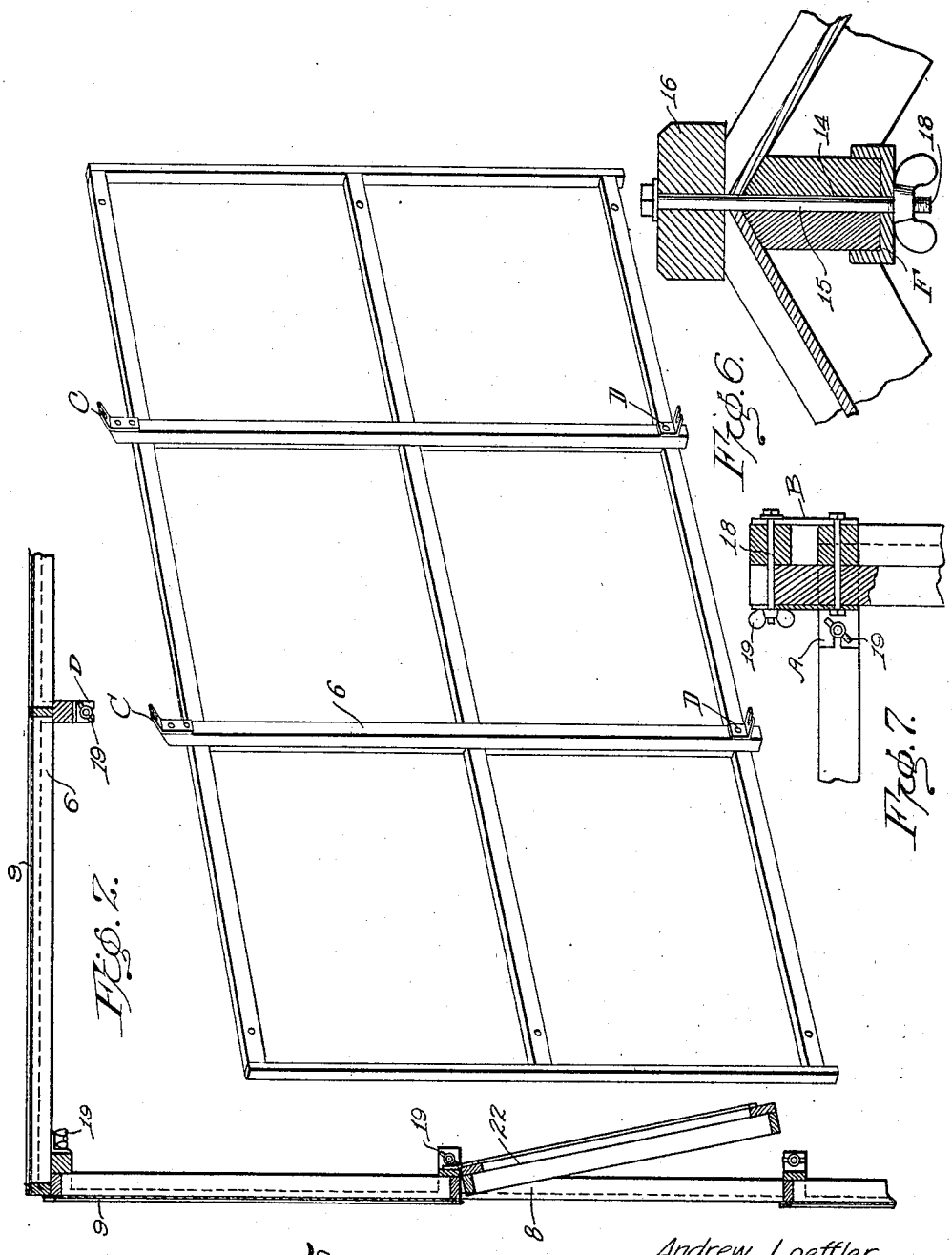


Fig. 6.

Fig. 7.

Fig. 2.

Fig. 5.

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WITNESS:

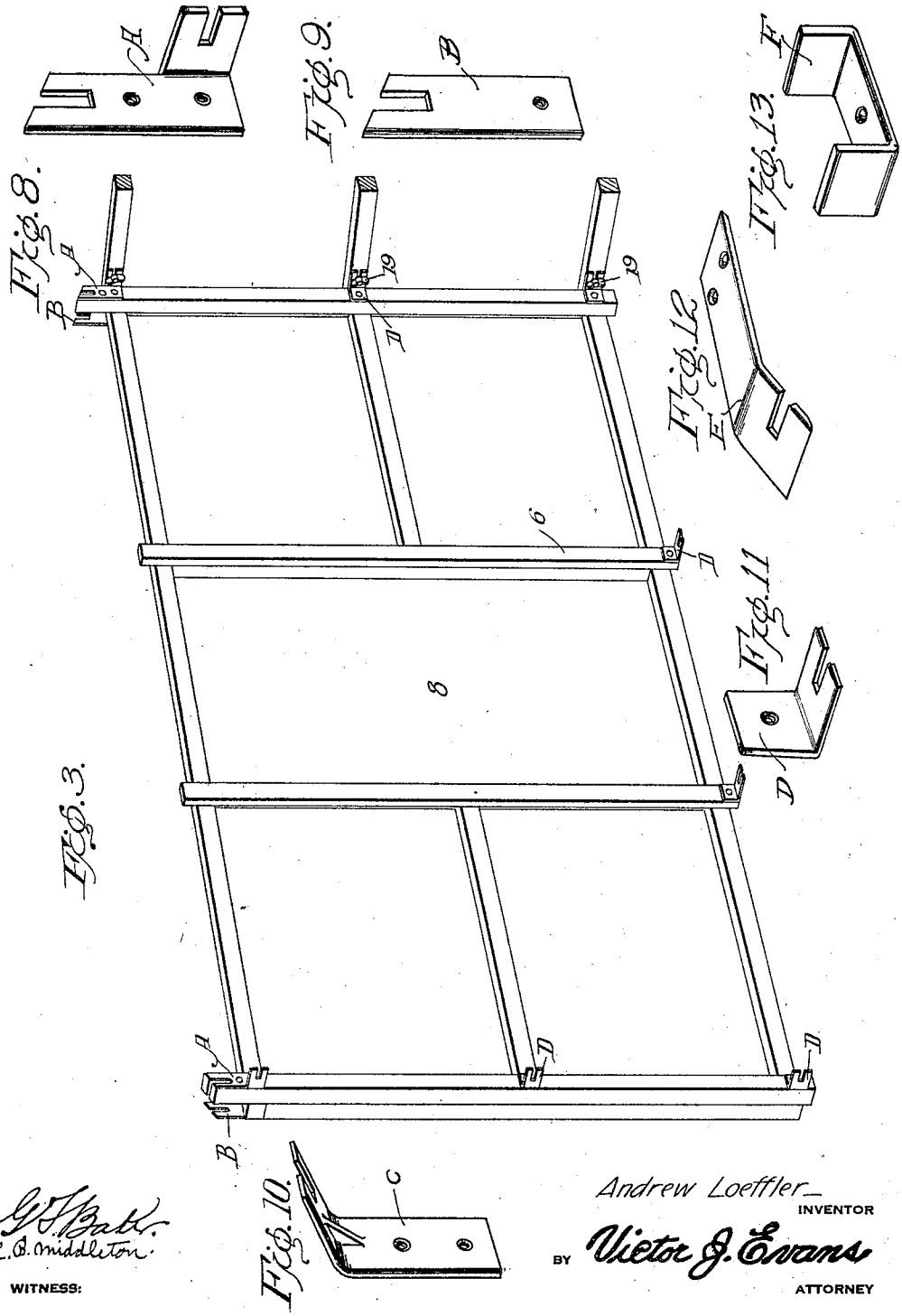
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March 18, 1924. 1,487,583

A. LOEFFLER

PORTABLE BUILDING

Filed Aug. 23, 1921 4 Sheets-Sheet 3



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PORTABLE BUILDING

Filed Aug. 23, 1921 4 Sheets-Sheet 4

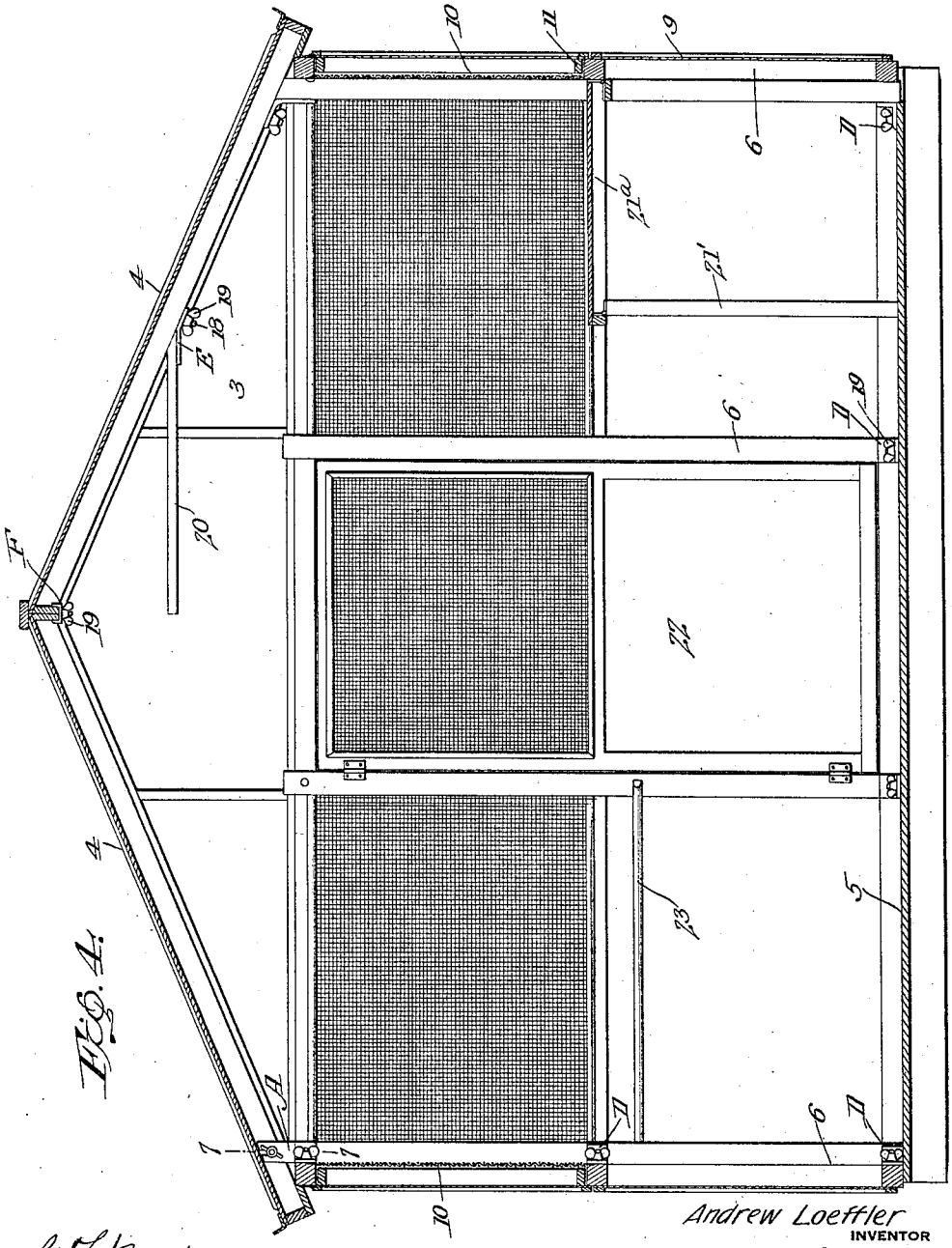


Fig. 4.

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Patented Mar. 18, 1924. 1,487,583

UNITED STATES PATENT OFFICE.

ANDREW LOEFFLER, OF CLEVELAND, OHIO.

PORTABLE BUILDING.

Application filed August 23, 1921. Serial No. 494,564.

To all whom it may concern:

Be it known that I, ANDREW LOEFFLER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Portable Buildings, of which the following is a specification.

This invention relates to improvements in portable cottages, the principal object of the invention being to provide a cottage which can be manufactured to sell at low cost and the parts of which can easily and quickly be assembled without the use of tools.

Another object of the invention is to make the upper part of the four walls of the cottage open with canvas covered hinged frames for closing the openings when desired.

Another object of the invention is to make the cottage of sections, the sections consisting of sides, ends and gables and roof sections with means for securing the sections together by brackets and bolts and wing nuts.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view of the complete cottage.

Figure 2 is an enlarged view of one of the side sections of the cottage.

Figure 3 is an enlarged view of one of the end sections thereof and showing a part of a side section.

Figure 4 is a transverse section through the cottage.

Figure 5 is a horizontal section through a part of one side and end.

Figure 6 is a sectional detail through the peak of the roof.

Figure 7 is a section on line 7—7 of Figure 4.

Figures 8 to 13 are views of the different brackets used in assembling the sections.

As shown in these views the cottage consists of a pair of side sections 1, a pair of end sections 2, a pair of gable sections 3, a pair of roof sections 4 and a pair of floor sections 5. The side and end sections are constructed of suitable framework 6, the framework of one of the end sections or both if desired, being formed to leave a door opening 8. The lower halves of the side and end sections as well as the door are covered with canvas or the like, as shown at 9, while the upper half of the sections and door is covered with wire gauze, as shown at 10 to prevent the entrance of insects and the like. Canvas covered frames 11 are hinged at their upper edges to the upper rails of the sections so that these can be used for closing the wire covered upper halves of the sections when desired or they can be used as canopies when swung upwardly and outwardly and held in this position by the braces 12. One of these hinged frames can be used to cover the upper part of the door.

Each gable section 3 is constructed of a framework covered with any well known type of builders board. Either one or both of these sections may be formed with a screen covered window 13.

Each roof section is constructed with a suiable framework also covered with builders board, the two upper side bars of the roofing sections abutting each other when the roof is in place and having their meeting faces provided with spaced grooves 14 which when the roof is in place form holes for receiving the bolts 15 which pass through the ridge bar 16 and through channel-shaped brackets F which embrace the lower edges of the said side bars. Thus the two sections of the roof are securely connected together in a watertight manner, the ridge bar engaging flattened portions of the ridge part of the roof. Brackets A, B, C, D, E, and F together with bolts 18 and wing nuts 19 are used for detachably connecting the sections together so that it is simply necessary to first place the two floor sections together to form the floor for the cottage, then connect an end section with a side section by the angle brackets D and the bolts and nuts and then connect the end and side sections with the opposite end and side sections to complete the walls of the cottage. The gable sections are placed on the top rail of the end sections. The roof sections are then put in place and connected with each other, as before explained and with the wall sections by the brackets A, B and C and the bolts and nuts.

The uprights at the ends of each end section extend above the upper rail with their ends beveled to receive the side rails of the roof sections. These ends are slotted and the brackets A which are bolted to the inner faces of the uprights are also slotted, the slots in the brackets registering with those in the uprights. Each of these brackets is of angle shape and the arm thereof is slotted to engage the bolts carried by the side sections. A bracket B is secured to the outer face of each end of the top bar of each end section, the slotted upper end being in alignment with the slotted end of the upright, the side bars of the roof sections fitting the spaces formed by the upper ends of the uprights and brackets B with each connecting bolt passing through the slots in brackets A and B and the upright and through the side bar of the roof section.

The side bars of the roof sections rest upon the upper edges of the gable sections which have their ends entering the spaces between brackets B and the uprights. The roof sections are connected with the intermediate uprights of the side sections by the brackets C which are of angle shape, the angle being greater than the right angle. The two roof sections are connected together by the brace beams 20 which are connected with the said sections by the brackets E. As will be seen the brackets A, C, D and E are each bolted to one section and are provided with a slot for engaging a bolt on the other section so that the brackets are permanently secured to one section and are easily detached from or attached to the other section. Strips 21 are secured to the end edges of the frames of the roof sections and to the lower edges of the gable sections, the strips 21 of the roof sections overlapping the gable sections and the strips on the gable sections overlapping the end sections.

Metal strips 22′ are placed at the lower edges of the roof sections to form gutters for carrying off the rain water to the ends of the building.

From the foregoing it will be seen that the cottage can be set up easily and quickly without the use of any tools. No directions are required as any one can readily see how to proceed with the setting up of the cottage. It will also be seen that the ventilation in the cottage is perfect and by raising and lowering the hinged frames 11 ventilation can be controlled.

If desired a hinged table 21ª may be provided which is composed of a framework covered with builders board and suitably hinged to one of the side or end sections so that it can be swung out of the way when not in use. This table is provided with a hinged leg 21′. The door in the end section is shown at 22, and is composed of a framework, the lower part of which is covered with canvas and the upper part with wire gauze. This door is suitably hinged to the door frame.

I may also secure one or more bars 23 to the framework of the uprights to form towel racks and the like.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A portable dwelling comprising a plurality of relatively connected sections presenting respectively a floor, side and end sections, gables and roof, the said side and end sections presenting floor-attaching elements at their lower edges and roof-attaching elements at their upper edges, the said roof-attaching elements of the said end sections presenting gable-receiving spaces for receiving and maintaining the said gable sections in position between the roof and end sections.

2. A portable building comprising a floor section having bolt-holes, side sections having bolt holes and top and bottom sets of attaching brackets presenting open slots, the bottom set of which are disposed in line with the bolt-holes of the floor section, end sections having side sets of similarly slotted brackets in line with the bolt-holes of the said side sections and a set of bottom brackets in line with the bolt-holes of the said floor section, gable sections engageable between spaced slotted brackets at the top of the said end sections, roof sections overlying the said gable and the said side and end sections and presenting bolt-holes in line with the slots of the brackets of the said section, bolts passing through the aligned slots and bolt-holes, and wing-nuts engaged with the bolts for clamping the said sections together.

In testimony whereof I affix my signature.

ANDREW LOEFFLER.