

PATENT

SPECIFICATION



Application Date, Aug. 27, 1917. No. 12,262/17.

(Patent of Addition to No. 105,468, dated June 26, 1916.)

Complete Left, Dec. 11, 1917.

Complete Accepted, Aug. 27, 1918.

PROVISIONAL SPECIFICATION.

Improvements in and relating to Portable Buildings.

I, PETER NORMAN NISSEN, c/o The Institute of Mining and Metallurgy, 1, Finsbury Circus, in the City and County of London, Lieutenant-Colonel commanding Royal Engineers, G.H.Q. Troops of the British Expeditionary Force in France, do hereby declare the nature of this invention to be as follows:—

This invention relates to an improvement in the construction of the portable building forming the subject matter of Letters Patent No. 105,468, and has for its object to provide buildings of this type with a lantern light and ventilator.

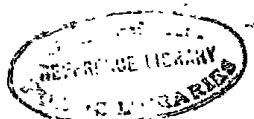
10 A convenient construction of lantern light and ventilator comprises two vertical members—at a suitable distance apart—bolted to each of the bow or semi-circular shaped ribs, said members being braced to the ribs by means of stays arranged in pairs, a series of window frames carried by said vertical members, hinged windows mounted in said frames, purlins carried by said 15 vertical members, a roof or covering of corrugated iron sheets carried by said purlins, a lining of corrugated iron sheets mounted on the top of the window frames and wooden panels closing the ends of the light so formed.

In the preferred construction of lantern light and ventilator the vertical members each consist of two lengths of angle iron which at one end are adapted 20 to straddle the web of the rib and to be fixed thereto by a bolt and at the other end are loosely riveted together with the stay and a washer between them.

The object of this construction is to provide openings for the passage of the bolts by which the frames of the windows are fixed and to enable each vertical member and its stay to be folded so as to lie close together to facilitate 25 packing.

The frames of the lantern windows which are provided with sills are slipped between the angles of the vertical members and are held in place by means of battens which are of such a width as to engage the ends of the adjacent frames and bolts passing through said battens and said vertical members. On the 30 tops of the members on each side are fixed purlins which support a cover or roof of corrugated iron sheets. Under this cover or roof is an inner lining also made of corrugated iron sheets which rests on the top of the window frames between the battens and is held in position by wooden strips nailed to said battens. The ends of the lantern light are closed by panels. The windows 35 both of the lantern light and in the ends of the building are glazed with oiled fabric the former being hinged at the bottom to open inwards suitable stops being mounted on the stays to limit the amount said windows can open. The

[Price 6d.]



spaces between the outer corrugated iron sheets covering the exterior of the building and the inner corrugated iron sheets forming the lining within the lantern light are covered by suitable panels.

Dated this 27th day of August, 1917.

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70, Chancery Lane, London, W.C. 2,
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in and relating to Portable Buildings.

I, PETER NORMAN NISSEN, c/o The Institution of Mining and Metallurgy, 1, Finsbury Circus, in the City and County of London, Lieutenant-Colonel commanding Royal Engineers, G.H.Q. Troops, British Expeditionary Force in France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improvement in or modification of the construction of the portable building forming the subject-matter of Letters Patent No. 105,468 granted to me which comprises essentially a frame formed of a series of bow or semi-circular shaped ribs, each consisting of three or more similar elements, a series of longitudinally arranged exterior purlins mounted on said ribs and a series of corrugated iron sheets fixed to said purlins, and it consists of an improved construction of combined lantern light and ventilator for buildings of said type, the object being to render said buildings adaptable to a greater number of uses.

I attain this end by the construction shown in the accompanying drawing in which:—

Fig. 1 is a view in perspective of the building in various stages of construction, and

Figs. 2 & 3 are broken views in side elevation and cross section respectively—on an enlarged scale—showing details of the construction of the lantern light and ventilator.

Throughout the views similar parts are marked with like letters of reference.

The frame of the building as specified in my earlier patent as aforesaid comprises essentially a series of bow or semi-circular ribs *a* of T-iron each of which consists of three similar sectors, purlins *b* mounted on said ribs, and an outer covering of corrugated iron sheets *c* bolted or otherwise fixed to said purlins.

The lantern light and ventilator is constructed in the following manner:— At a suitable distance apart two vertical members *m* are bolted to each of the ribs *a* said members *m* being braced to the ribs by means of stays *m*¹ arranged in pairs. The vertical members *m* each consist of two lengths of angle iron which at one end are adapted to straddle the web of the rib and to be fixed thereto by a bolt, and at the other end are loosely riveted together with the stay *m*¹ and a washer between them. The object of this construction is to provide openings for the passage of the bolts by which the frame of the windows are fixed and to enable each vertical member *m* and its stay *m*¹ to be folded so as to lie close together to facilitate packing.

The frames *o* of the lantern windows which are provided with sills *o*¹ are slipped between the angles of the vertical members *m* and are held in place by means of battens *n* which are of such a width as to engage the ends of the adjacent frames, and bolts *y* passing through said battens and said members *m*.

On the top of the members *m* on each side are fixed purlins *q* which support a cover or roof *r* of corrugated iron sheets. Under this cover or roof is an inner lining *s* also made of corrugated iron sheets which rests on the top of the window frames *o* between the purlins *q* and is held in position by wooden strips *t* nailed to said battens. The ends of the lantern light are closed by panels *v*. The windows both of the lantern light and in the ends of the building are glazed with oiled fabric or glass. The windows are hinged at the bottom to open inwards and suitable stops *w* are mounted on the stay *m¹* to limit the amount said windows can open. The spaces within the lantern between the outer sheets *c* and the inner lining sheets are covered by panels *o²*.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

15. 1. In a portable building of the type specified, a combined lantern light and ventilator comprising a series of upright members fixed and stayed to the ribs of the frame of the building, a series of window frames engaging said upright members, hinged windows mounted in said frames, purlins carried by said vertical members, a roof or covering of corrugated iron sheets carried by said purlins, a lining of corrugated iron sheets mounted on the tops of the window frames, and wooden panels closing the ends of the light.
20. 2. In a portable building of the type claimed by the preceding claim, a form of construction of the combined lantern light and ventilator in which vertically arranged members each comprising two lengths of angle iron are bolted at one end on each side of the web of one of the ribs of the frame of the building and are loosely rivetted together at the other end with one end of a stay rod between them, the other end of said stay rod being bolted to the web of the rib of the frame, to which said vertically arranged member is fixed, at a suitable distance from the point of fixation of said vertically arranged member.
25. 3. The combination with a portable building as claimed in Letters Patent 105,468, of a lantern light comprising a series of upright members *m* fixed and stayed to the ribs *a* of the frame of the building, a series of window frames *o* engaging the adjacent vertical members *m*, hinged windows carried by said frames, purlins *q* carried by the vertical members, corrugated iron sheets *r* carried by the purlins *q* and adapted to form a roof or outer covering, corrugated iron sheets *s* resting on the tops of the window frames *o* and adapted to form an inner lining, said sheets *s* being held in position by means of wooden strips fixed to said purlins, and panels *v* closing the ends of the light.

Dated this 11th day of December, 1917.

40 PHILLIPSS,
70, Chancery Lane, London, W.C. 2,
Agents for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]

