

(12) UK Patent Application (19) GB (11) 2 151 933 A

(43) Application published 31 Jul 1985

(21) Application No 8334565

(22) Date of filing 29 Dec 1983

(71) Applicant
**Christopher Robert Lamb,
8 Courteenhall, Northampton**

(72) Inventor
Christopher Robert Lamb

(74) Agent and/or Address for Service
**A. A. Thornton & Co.,
Northumberland House, 303-306 High Holborn,
London WC1V 7LE**

(51) INT CL⁴
A63H 33/04

(52) Domestic classification
**A6S 6AX 6B 6C1A 6C1B 6E1A 6E1B 6HX 6X
B8P P**

(56) Documents cited
**GB A 2134394 GB 0843494
GB 1405981 GB 0657171
GB 1400735 GB 0619432
GB 1250711 US 4270302**

(58) Field of search
**A6S
A6H
G4G**

(54) Model building

(57) There is disclosed a model building which can be assembled from parts and disassembled for storage or transit. It is intended for toy, model, display or other use. The model comprises a platform (1,2) formed with sockets and corner posts (5) with lower end portions for locating within the sockets. Wall panels (9,10) fit between adjacent corner posts (5) by a sliding, tongue and groove inter-engagement. A roof arrangement (14,18) serves to locate the corner posts (5) at their upper ends. The platform may be formed by the upper panels of two inter-secured boxes for holding the components of the building and any contents thereof or by hinged panels of a single box having hinged bottom and top halves (Fig. 2).

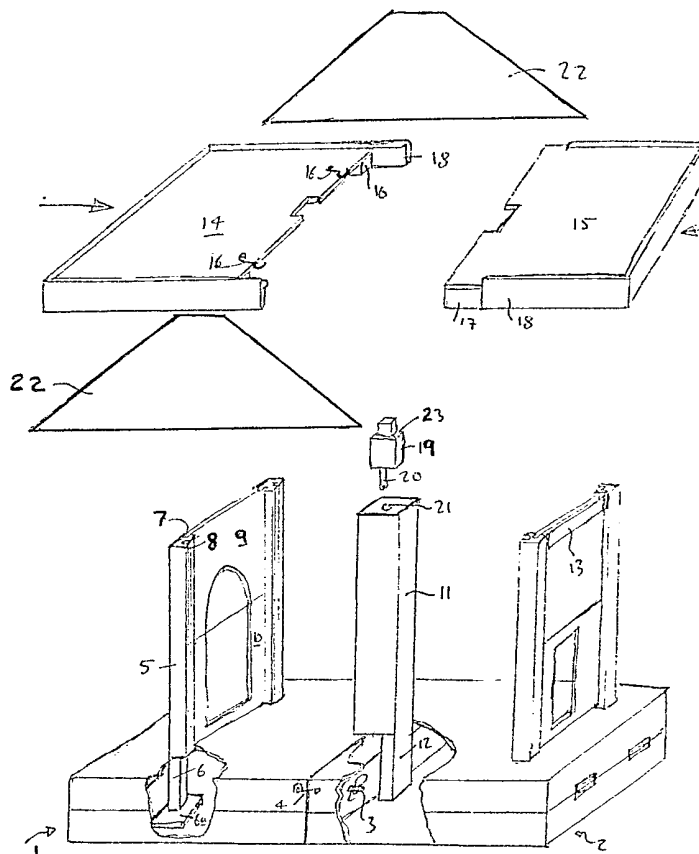


FIGURE 1

GB 2 151 933 A

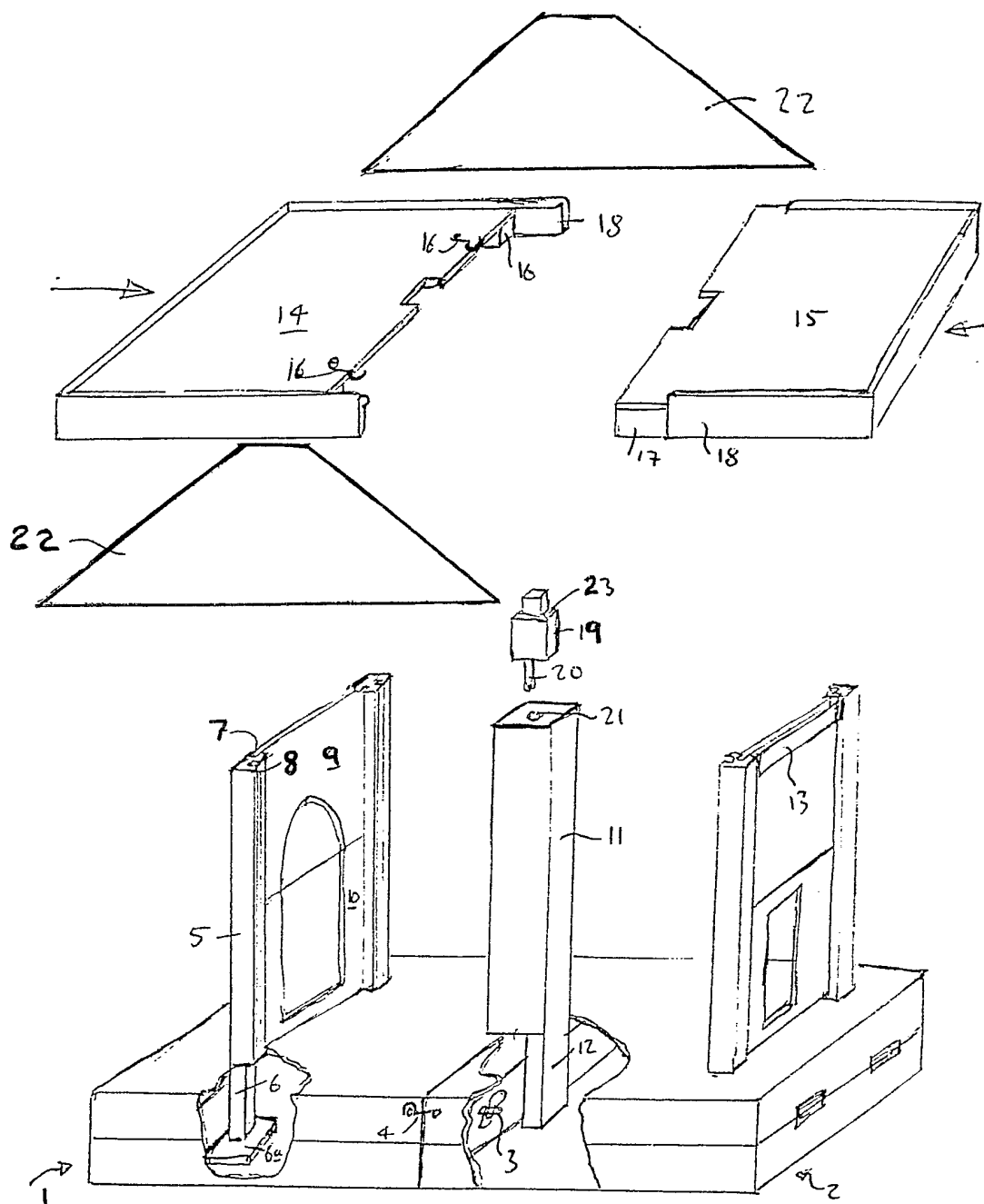
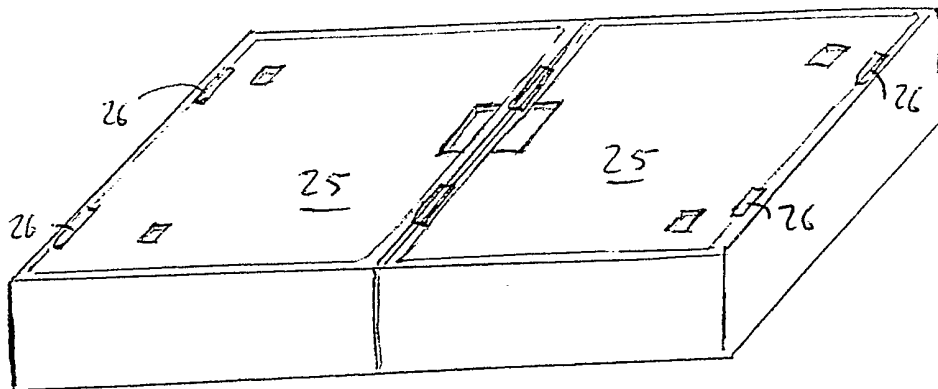


FIGURE 1

FIGURE 2



SPECIFICATION

Model building

5 This invention relates to a model building which can be assembled from parts and disassembled for storage or transit. The model may be of any type of building and may be a copy of a real building particularly a period building, and may be for toy,
10 model, display or other use.

Known model buildings which can be assembled from parts cannot be disassembled again without difficulties, or if they are intended for disassembly, they are complicated.

15 In accordance with this invention, there is provided a model building which can be assembled from parts and disassembled again, comprising a platform formed with sockets, corner posts with lower end portions for locating within respective
20 said sockets to mount the corner posts securely upright, wall panels for mounting between adjacent corner posts by a sliding, tongue and groove inter-engagement between the wall panels and corner posts, and a roof arrangement serving to locate the corner posts at their upper ends.

Preferably the platform comprises a box into which the parts of the model building will fit for storage or transit, and each socket comprises an aperture in one panel of the box and an aligned
30 aperture or other locating element in an opposite panel of the box. The platform may indeed be composed of two such boxes assembled side-by-side, and may be used for receiving the parts of the building and for receiving furniture and other
35 contents of the building.

An embodiment of this invention will now be described, by way of example only, with reference to the accompanying drawings, in which:

Figure 1 is a isometric, exploded view of a
40 model building in accordance with this invention; and

Figure 2 is a view of an alternative platform arrangement composed of a single box.

In the example shown, the model building parts
45 are all of wood. Two wooden boxes 1, 2 are provided, one for receiving the parts of the building and for receiving furniture and other contents of the assembled building. The two boxes when emptied are placed side-by-side as shown with their
50 hinge sides facing outwards, and the two boxes are secured together by a pair of bolts 3 (one shown) with wing nuts. The box lids are then closed and secured together by a pair of catches 4 (one shown). The two boxes thus joined form a
55 platform for the building.

The building further comprises square-section corner posts 5, each having a lower end portion 6 for insertion into respective sockets of the platform. Each such socket comprises a square hole in
60 the top panel of the respective box 1 or 2 and a corresponding aperture (or locating element 6a with corresponding aperture) in the opposite panel of that box. The separation of the two opposite panels of the box, serving to locate the corner post
65 as spaced points, results in the corner post being

mounted securely upright.

In its portion projecting upwards from the platform, each corner post is provided with longitudinal grooves 7, 8 along adjacent faces. Wall panels
70 e.g. 9, 10 are formed with tongues for engaging within the grooves of adjacent corner posts: thus, once the corner posts are erected, the various wall panels can be slid into position from the tops of the corner posts. The wall panels may be formed
75 as shown with apertures representing doors and windows. In the example shown, each wall is made up of two panels one above the other. If desired, an intermediate floor for the building can be provided, for example to rest on the tops of the
80 lower-floor wall panels before the upper-floor wall panels are installed.

The example of building shown further comprises a central chimney post 11 having a lower end portion inserted into another socket of the platform. Thus, the chimney post comprises a
85 length of square section wood with a slot cut into its lower end to provide a pair of spaced, flat projections 12 (one only shown). These are inserted through respective rectangular apertures formed in
90 the top panels of the platform, one in each box, so as to fit astride the two bolted-together sides of the two boxes as a close fit. This provides for mounting the chimney post securely upright. Instead of the two bolts 3, similar such bolts may be passed
95 through the lower end portion of the chimney post to secure the boxes together.

A roof arrangement for the building comprises two panels 14, 15 arranged to be slid into inter-engagement as shown by the arrows, and then
100 locked together by a pair of catches 16, 16. The underside of each panel 14, 15 is formed with a rib 17 around its periphery (except along the edge facing the other such panel). The panels 14, 15 are assembled to the building so as to rest on the top of the corner posts (perhaps also on the top of the chimney post) and such that the peripheral rib 17
105 abuts the outer faces of the corner posts to prevent these splaying outwards: the wall panels prevent the corner posts deflecting inwards and accordingly the corner posts are effectively located at their upper ends to provide rigidity to the wall structure of the building. The panels 14, 15 are further provided with wooden strip 18 around their edges, which on panel 14 projects towards panel
110 15 and which is correspondingly cut-short on panel 15. Strip 18 is provided with a lip which locates as shown over the upper surface of the panels 14, 15. If as shown the wall panels are recessed relative to the outer faces of the corner posts, then preferably the upper wall panels are thickened adjacent their upper edges to provide a margin 13 which is flush with the outer faces of the corner posts and with the rib 17, to render the assembled structure more rigid.

The building is completed by a chimney part 19, having a peg 20 which fits into a socket 21 at the top of the chimney post, and by four roof panels 22 (one shown) of trapezium shape, which rest along their lower or eave edges on the lip of strip
125 18 and along their top edges on a shoulder 23 of
130

the chimney part. In an alternative arrangement there may be two rectangular roof panels and two triangular or trapezium shaped panels for the gable ends, which latter panels may be integral with respective wall panels.

The exterior surfaces of the building parts are in practice appropriately finished for effect. A variety of different buildings can be designed using the principles of this invention, and the model may be made to any desired scale. The building may be fitted with lighting, for which batteries would be installed in one or other of the boxes 1, 2.

Instead of the platform being formed of a pair of wooden boxes, a single larger box may be employed as shown in Figure 2. In such case, the single box is opened out through 180° and includes, in its top and bottom halves, panels 25 hinged at the outer sides 26, 26 which panels form two top panels of the platform much as shown in the accompanying drawing: catches are provided to secure those panels in their closed positions shown. The chimney post and/or bolts, also much as shown, may serve to secure the top and bottom halves of the box together in the open position along the hinged side of the box.

It will be appreciated that the above-described model building is simple to assemble and disassemble and advantageously packs well for storage or transit, yet the building parts can be finished to a high standard.

CLAIMS

1. A model building which can be assembled from parts and disassembled again, comprising a platform formed with sockets, corner posts with lower end portions for locating within respective said sockets to mount the corner posts securely upright, wall panels for mounting between adjacent corner posts by a sliding, tongue and groove inter-engagement between the wall panels and corner posts, and a roof arrangement serving to locate the corner posts at their upper ends.

2. A model building as claimed in claim 1, wherein the platform comprises a box into which the parts of the model building will fit for storage or transit.

3. A model building as claimed in claim 2, wherein each socket comprises an aperture in one panel of the box and an aligned aperture or other locating element in an opposite panel of the box.

4. A model building as claimed in either claim 2 or claim 3, wherein the platform comprises two boxes assembled or assemblable side-by-side, and used for receiving the parts of the building and for receiving furniture and other contents of the building.

5. A model building as claimed in any one of the preceding claims, wherein at least one of the wall panels is provided with an aperture for inserting a door or window.

6. A model building substantially as described herein with reference to either of the Figures of the accompanying drawings.

Printed in the UK for HMSO, D8818935, 6 85, 7102.
Published by The Patent Office, 25 Southampton Buildings, London,
WC2A 1AY, from which copies may be obtained.