

EASILY ASSEMBLED URN BOX STRUCTURE

Most conventional boxes for holding urns (urn boxes)
5 are assembled in a tenon/mortise manner or
cutting/nailing manner. The former can be easily
assembled or disassembled, while having insufficient
stability. Since at present the urn boxes are often
stacked on one another, such urn boxes can hardly bear
10 the weight of the upward ones. The latter have greater
strength when stacked, while being necessary to be cut
and nailed, so that the transferring and processing of
the material of such urn box are not economic and
practical.

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SUMMARY OF THE INVENTION

It is therefore a primary object of this invention
to provide an easily assembled urn box, which is composed
of several boards which can be held by being inserted.
20 Accordingly, the invention provides an easily assembled
urn box structure comprising four lateral boards and a
backboard whose adjacent edges are clamped together, and
a box door hingedly connected to the structure, said
adjacent edges each being clamped together by provision
25 of a flange plate on one respective edge and a grooved
member on the other respective edge having a groove

within which said flange plate is located, and the grooved members and flange plates each being attached at the edges of the respective lateral boards and the backboard by bolts and nuts, the grooved members each
5 having projecting plates with slots to accommodate the bolts while the flange plates each have hole seats which align with said slots when the bolts are in place, whereby when the flange plates are located in their respective grooves and the nuts and bolts are tightened
10 a rigid structure is obtained. After the flange plates are inserted into the insert grooves, bolts are used to secure the same together, enabling the urn boxes to be strong enough to bear the weight of the upper stacked urn boxes.

15 In a preferred form of this invention there is provided an urn box structure as claimed in Claim 1 or 2, wherein each of said flange plates is provided with several slightly projecting transversely disposed strips, whereby when said flange plates are inserted into said
20 insert grooves, air gaps are formed by said slightly projecting strips between said flange plates and insert grooves for facilitating the inserting and sliding operation and enhancing the securing effect. Such air gaps facilitate the inserting operation and enhance the
25 securing effect.

The present invention can be better understood

through the following description and accompanying drawings wherein:

BRIEF DESCRIPTION OF THE DRAWINGS

5 Fig. 1 is a perspective exploded view of this invention;

 Fig. 2 is a perspective assembled view thereof;

 Fig. 3 is a sectional view showing the locking
10 portion of the back board and lateral board of this invention;

 Fig. 4 is a sectional view showing the locking
 portion of two lateral board; and

 Fig. 5 shows the back side of four stacked urn
 boxes.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

 Please refer to Figs. 1 to 4. The present urn box
10 is composed of lateral boards 20, back board 30 and
 box door 40. The lateral board 20 is connected to the
20 back board 30 in such a manner that corresponding flange
 plates 21, 31 and insert groove 22 are engaged with one
 another and are secured together by screws 50. The box
 door 40 is pivoted to a lateral board 20 by a hinge 60.
 Each of the aforesaid boards is provided with flange
25 plates 21, 31 at its connecting edge, while the adjacent
 connecting board is provided with insert grooves 22 for

receiving the flange plates 21, 31. On the back board 30 and two opposite lateral boards 20 and adjacent to the edges thereof are provided through hole seats 32, 23. On the adjacent connecting edge of the other board, corresponding to the through hole seats 32, 23 are provided projecting plates 24, 25. On the projecting plates 24, 25, corresponding to the above through hole seats 32, 23 are formed bolt-passing slots 241, 251 whereby when each board is connected to the other in insert manner by means of the flange plates 21, 31 and the insert grooves 22, bolts 50 can be extended into the slots 241, 251 and through hole seats 32, 23. Then, a nut 51 can be secured thereto. Accordingly, the more tightly the bolts 50 are fastened, the more firmly the boards are associated together. Moreover, in case no air gap exists between the flange plates 21, 31 and the insert grooves 22 and therefore there is a tight fit, a resistance will take place during insertion. Therefore, on the above flange plates 21, 31, several slightly projecting strips 211, 311 are transversely disposed, so that when the flange plates 21, 31 are inserted into the insert grooves 22, the slightly projecting strips 211, 311 can form several small air gaps between the flange plates 21, 31 and the insert grooves 22 for facilitating the inserting and sliding movements of the board. In addition, the projecting strips 211, 311 can exert

compressing force on the insert grooves 22 to enhance the fixing effect of each lateral board. Accordingly, the above urn box can be very easily assembled without conventional complex nailing procedure. Moreover, before
5 assembled, the urn box can be packed and transferred in disassembled state without occupying great room so as to reduce transferring cost. Furthermore, through the above inserting structure and cooperative fastening bolts, each urn box can be more firmly constructed. This is
10 advantageous when multiple urn boxes are stacked on one another to form multiple layers, as shown in Fig. 5. Such urn box is stronger than conventional one so as to bear more load.

Besides, for disguising the bolts, a hood 70 having
15 an outer cover 71 is provided to disguise the bolts. The hood 70 has an inner clamping plate 72 formed with a central clamping recess 73 for riding over the aforesaid through hole seats 32, 23 so as to stabilize the hood 70. The hood 70 can enhance and protect the bolt portion of
20 the urn box.

CLAIMS

1. An easily assembled urn box structure comprising four lateral boards and a backboard whose adjacent edges
5 are clamped together, and a box door hingedly connected to the structure,
said adjacent edges each being clamped together by provision of a flange plate on one respective edge and a grooved member on the other respective edge having a
10 groove within which said flange plate is located,
and the grooved members and flange plates each being attached at the edges of the respective lateral boards and the backboard by bolts and nuts,
the grooved members each having projecting plates with
15 slots to accommodate the bolts while the flange plates each have hole seats which align with said slots when the bolts are in place, whereby when the flange plates are located in their respective grooves and the nuts and bolts are tightened a rigid structure is obtained.

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2. An urn box structure as claimed in Claim 1, wherein a hood is disposed at a bolt location adjacent said through hole seat, bolt-passing slot and bolts, said hood having an outer cover and an inner clamping plate, said
25 outer cover being adapted to disguise said bolt location, said inner clamping plate being formed with a central



clamping recess adapted to ride over said through hole seat for stabilizing said hood.

3. An urn box structure as claimed in Claim 1 or 2,
5 wherein each of said flange plates is provided with several slightly projecting transversely disposed strips, whereby when said flange plates are inserted into said insert grooves, air gaps are formed by said slightly projecting strips between said flange plates and insert
10 grooves for facilitating the inserting and sliding operation and enhancing the securing effect.

4. An urn box substantially as described hereinbefore with reference to and as shown in the accompanying
15 drawings.