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(54) **ASSEMBLY TABLE**

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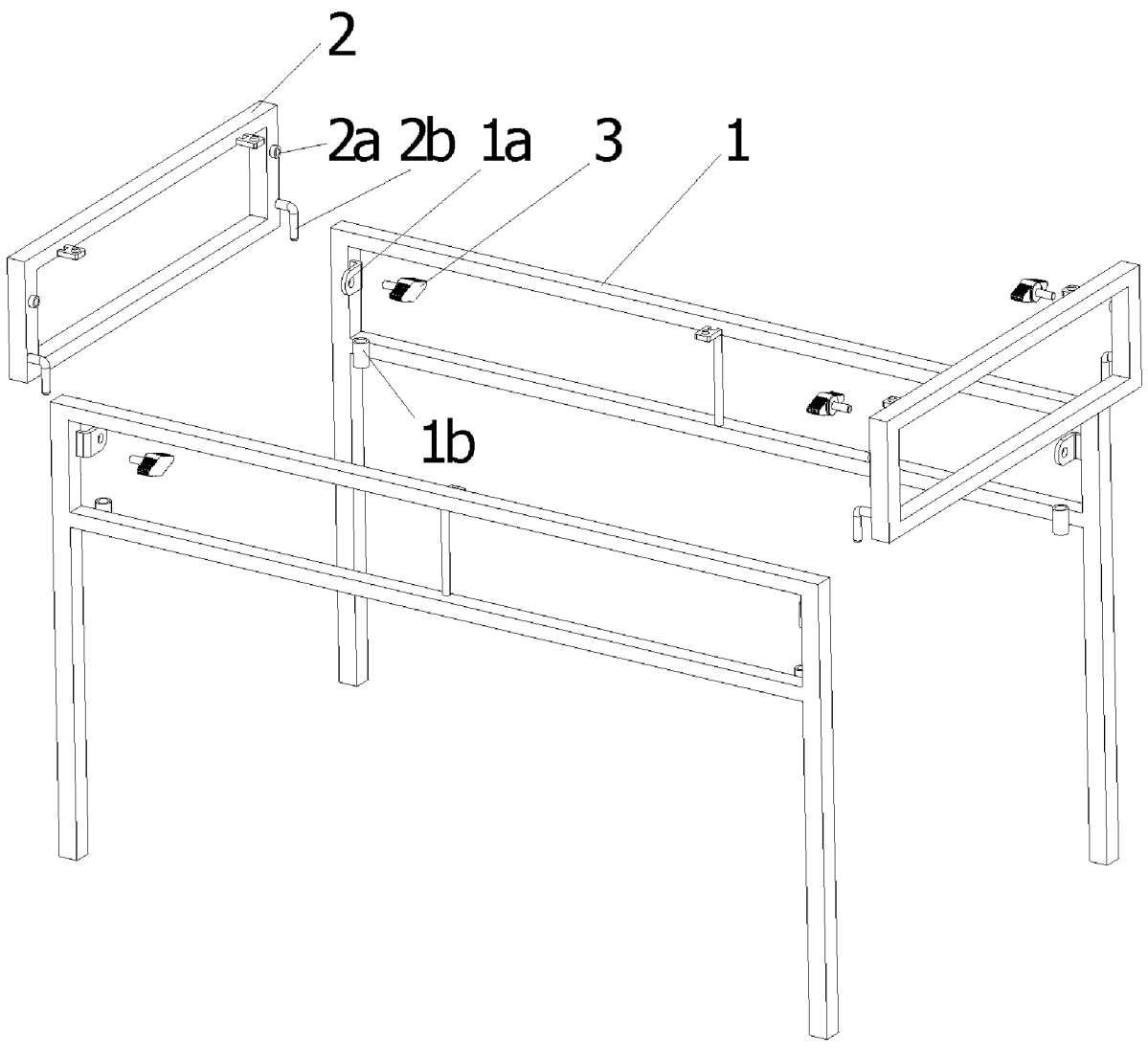
(57) **ABSTRACT**

An assembly table includes two first table leg frames, two second table leg frames and a table board. The two first table leg frames are clamped with the two second table leg frames. The two first table leg frames are further fixedly connected to the two second table leg frames via a hand bolt. When the assembly table is assembled, only adjacent first table leg frame and second table leg frame are clamped, and connected via a hand bolt. by clamping, relative positions of the first table leg frame and the second table leg frame may be defined. By connecting with the hand bolt, the first table leg frame and the second table leg frame are fixed for a second time.



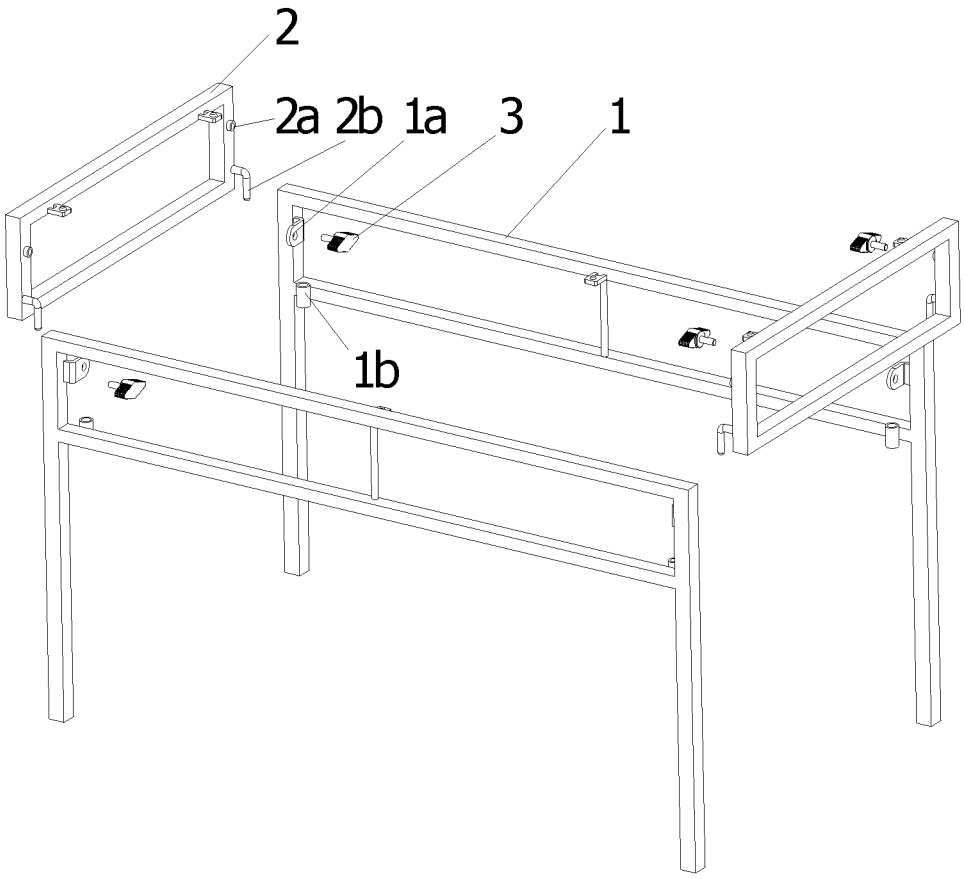



FIG. 1

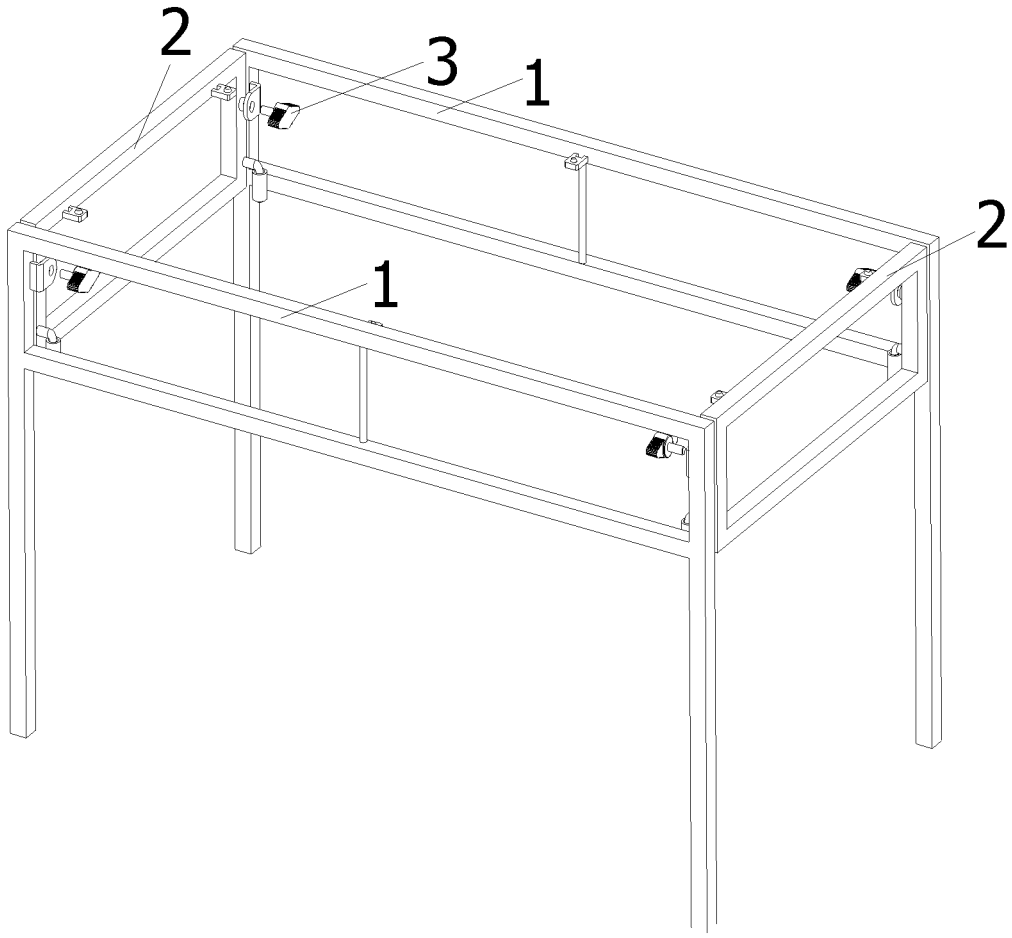



FIG. 2

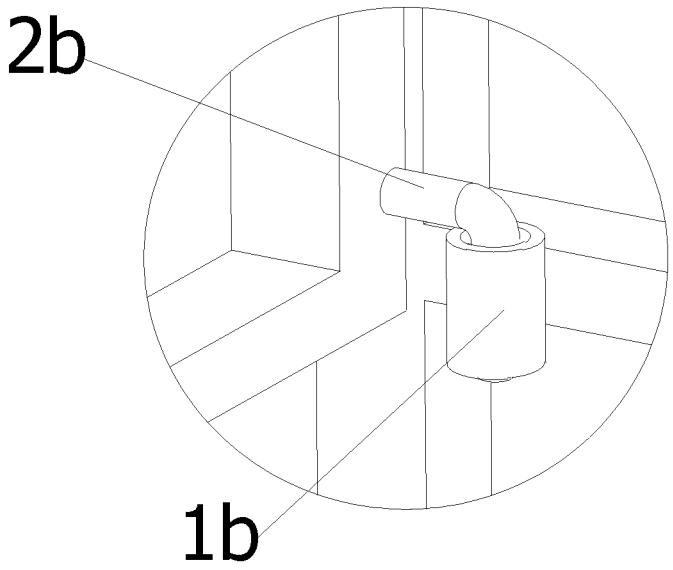



FIG. 3

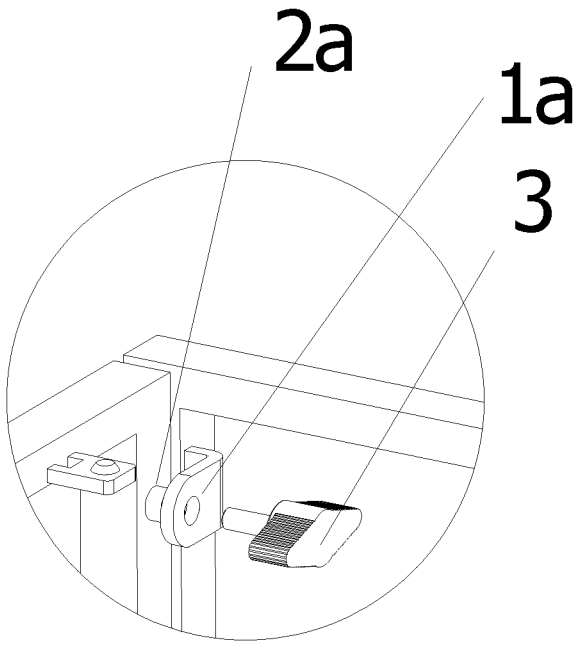



FIG. 4

# ASSEMBLY TABLE

## CROSS-REFERENCE TO RELATED APPLICATION

**[0001]** This application claims the priority benefit of China application serial no. 201920228267.4, filed on Feb. 20, 2019. The entirety of the above-mentioned patent application is hereby incorporated by reference herein and made a part of this specification.

## BACKGROUND

### Technical Field

**[0002]** The present application relates to the technical field of furniture assembly, and in particular to an assembly table.

### Description of Related Art

**[0003]** At present, a piece of furniture is often assembled with the help of an assembly tool (such as a screw driver and a wrench), so the consumption time is long and the manual cost is high. In this sense, how to improve assembly efficiency of the furniture and lower an assembly difficulty is a technical problem to be solved by a person skilled in the art.

## SUMMARY

**[0004]** An objective of the present application is to provide an assembly table, which is simple to assemble, and may be assembled by a hand completely without the help of an assembly tool.

**[0005]** To achieve the above-mentioned objective, the present application provides an assembly table, including two first table leg frames, two second table leg frames and a table board. The two first table leg frames are clamped with the two second table leg frames. The two first table leg frames are further fixedly connected to the two second table leg frames via a hand bolt.

**[0006]** Preferably, a head of the hand bolt is machined by injection molding.

**[0007]** Preferably, a plurality of the hand bolts are respectively provided between each of the two first table leg frames and each of the two second table leg frames.

**[0008]** Preferably, the table board is fixedly connected to the two first table leg frames and/or the two second table leg frames via the hand bolt.

**[0009]** Preferably, a clamping piece is respectively disposed between each of the two first table leg frames and each of the two second table leg frames.

**[0010]** Preferably, the clamping piece includes a clamping shaft and a clamping sleeve matching to each other.

**[0011]** Preferably, the clamping piece includes an external clamping slab and an internal clamping slab matching to each other.

**[0012]** The assembly table provided by the present application includes two first table leg frames, two second table leg frames and a table board. The two first table leg frames are clamped with the two second table leg frames. The two first table leg frames are further fixedly connected to the two second table leg frames via a hand bolt. When the assembly table is assembled, only adjacent first table leg frame and second table leg frame are clamped, and connected via the hand bolt. By clamping, relative positions of the first table leg frame and the second table leg frame may be defined. By connecting with the hand bolt, the first table leg frame and the second table leg frame are fixed for a second time. Therefore, the assembly table is simple to assemble, firm and reliable, and may be assembled by a hand completely without the help of other assembly tools; and the consumption time is short, and the assembly efficiency is improved obviously.

## BRIEF DESCRIPTION OF THE DRAWINGS

**[0013]** In order to describe the technical solutions in the embodiments of the present application or in the prior art more clearly, a simple introduction on the accompanying drawings which are needed in the description of the embodiments or prior art is given below. Apparently, the accompanying drawings in the description below are merely the embodiments of the present application, based on which other drawings may be obtained by those of ordinary skill in the art without any creative effort.

**[0014]** FIG. **1** is a breakdown structural schematic diagram of an assembly table (a table board is not shown) in a specific embodiment of the present application.

**[0015]** FIG. **2** is a structural schematic diagram when the assembly table (the table board is not shown) in FIG. **1** is assembled.

**[0016]** FIG. **3** is a partial enlarged view of a clamping piece in FIG. **1**.

**[0017]** FIG. **4** is a partial enlarged view of a hand bolt in FIG. **1**.

## DESCRIPTION OF THE EMBODIMENTS

**[0018]** The technical solutions of the embodiments of the present application are clearly and completely described below with reference to the accompanying drawings in the embodiments of the present application, it is apparent that the described embodiments are only a part of embodiments of the present application, instead of all the embodiments. All other embodiments obtained by those of ordinary skill in the art based on the embodiments of the present application without creative efforts shall fall within the protection scope of the present application.

**[0019]** A core of the present application is to provide an assembly table, which is simple to assemble, firm and reliable, and may be assembled by a hand completely without the help of other assembly tools.

**[0020]** Referring to FIG. **1** to FIG. **4**, FIG. **1** is a breakdown structural schematic diagram of an assembly table (a table board is not shown) in a specific embodiment of the present application, FIG. **2** is a structural schematic diagram when the assembly table (the table board is not shown) in FIG. **1** is assembled, FIG. **3** is a partial enlarged view of a clamping piece in FIG. **1**, and FIG. **4** is a partial enlarged view of a hand bolt in FIG. **1**.

**[0021]** In a specific embodiment, the assembly table provided by the present application includes two first table leg frames **1**, two second table leg frames **2** and a table board (not shown in the figure). Generally, after the two first table leg frames **1** and the two second table leg frames **2** are assembled, a table leg frame having a square top is formed. However, as a matter of fact, it is also appropriate to form an oval or circular table leg frame, and the shape or material is not limited.

**[0022]** The first table leg frame **1** is clamped with the second table leg frame **2** in a pairwise manner, so that the assembly is very convenient and quick. Meanwhile, the first

table leg frame **1** and the second table leg frame **2** are fixed for a second time via a hand bolt **3**. The hand bolt **3** may be installed just by a hand, so that the assembly difficulty is not increased, and the assembly table is firmer and more reliable.

**[0023]** In specific assembly, it may be appropriate to assemble a clamping piece first and then fix the hand bolt **3**, because a certain movement space is needed when the clamping piece is installed.

**[0024]** The clamping piece and the hand bolt **3** are arranged at a junction where the first table leg frame **1** and the second table leg frame **2** are connected in a pairwise manner, and specific positions thereof may be provided flexibly. The clamping piece may be disposed below or above the hand bolt **3**, and a certain distance is kept therebetween to be more favorable to stability of the assembly table.

**[0025]** It is general to only provide one clamping piece and one hand bolt between each pair of adjacent first table leg frame **1** and second table leg frame **2**. If desired, a plurality of the hand bolts **3** or clamping pieces may be provided.

**[0026]** The clamping between each pair of the first table leg frame **1** and the second table leg frame **2** may be completed in multiple manners. It may be appropriate to provide a groove convenient for clamping on the first table leg frame **1** and the second table leg frame **2**, and may also be appropriate to provide the clamping piece capable of matching to each other on the first table leg frame **1** and the second table leg frame **2**:

**[0027]** With a clamping shaft **2***b* and a clamping sleeve **1***b* as an example, the clamping sleeve **1***b* is fixedly disposed on the first table leg frame **1**, and the clamping shaft **2***b* is fixedly disposed at a corresponding position of the second table leg frame **2**. A fixation manner may be welding or bolt connection, and the latter is more convenient for maintenance and replacement. The clamping shaft **2***b* is sleeved to the clamping sleeve **1***b* from top to bottom in assembly.

**[0028]** Certainly, the clamping piece capable of matching to each other may also be two slab-like clamping pieces matching to each other, and specifically includes an internal clamping slab and an external clamping slab. A groove or a projection matching to each other may be provided at corresponding positions of the internal clamping slab and the external clamping slab. During assembly, the internal clamping slab is sleeved to the external clamping slab from top to bottom, and the projection is sunken into the groove, thus implementing the clamping.

**[0029]** Additionally, when the first table leg frame **1** and the second table leg frame **2** are fixedly connected by the hand bolt **3**, a through hole may be provided on the first table leg frame **1** and a threaded hole may be provided on the second table leg frame **2**. The hand bolt **3** is screwed to the threaded hole via the through hole, so that the first table leg frame **1** and the second table leg frame **2** are fixed. When the first table leg frame **1** and the second table leg frame **2** are unsuitable for providing the through hole or the threaded hole due to the material or the shape, other small components may also be used. For example, a first small component **1***a* having a through hole is disposed on the first table leg frame **1**, a second small component **2***a* having a threaded hole is disposed on the second table leg frame **2**, and the first small component **1***a* and the second small component **2***a* are fixedly connected to the first table leg frame **1** and the second table leg frame **2**. Specifically, the welding or the bolt connection may be appropriate.

**[0030]** As an improvement, the hand bolt **3** may be a hand bolt having a head machined by injection molding. Such a bolt is more favorable to a manual operation and not easy to hurt the hand.

**[0031]** The table board on the assembly table may be not connected to the whole table leg frame. For example, the table board is a glass board directly placed onto the whole table leg frame. The table board may further be fixedly connected to the whole table leg frame, and there are many manners for the fixed connection. In order to facilitate the assembly, the table board may also be fixedly connected to the two first table leg frame **1** and/or the two second table leg frame **2** via the hand bolt **3**. In this sense, the assembly is convenient and other assembly tools are unnecessary. The number of the specific hand bolts **3** may be provided as required.

**[0032]** The embodiments in the specification are described progressively. Each embodiment attaches importance to describing a difference with other embodiments. A same or similar portion of each embodiment may be referred to each other.

**[0033]** The assembly table provided by the present application is described above in detail. In the specification, a specific example is used to describe a principle and an implementation manner of the present application. The description on the above embodiments is merely helpful to understand a method and a core concept of the present application. It should be understood that those of ordinary skill in the art may further make multiple improvements and modifications without departing from the principle of the present application, and those improvements and modifications also fall into the protection scope of the claims of the present application.

What is claimed is:

**1**. An assembly table, comprising two first table leg frames, two second table leg frames and a table board, wherein the two first table leg frames are clamped with the two second table leg frames; the two first table leg frames are further fixedly connected to the two second table leg frames via a hand bolt.

**2**. The assembly table according to claim **1**, wherein a head of the hand bolt is machined by injection molding.

**3**. The assembly table according to claim **2**, wherein a plurality of the hand bolts are respectively provided between each of the two first table leg frames and each of the two second table leg frames.

**4**. The assembly table according to claim **3**, wherein the table board is fixedly connected to the two first table leg frames and/or the two second table leg frames via the hand bolt.

**5**. The assembly table according to claim **1**, wherein a clamping piece is respectively disposed between each of the two first table leg frames and each of the two second table leg frames.

**6**. The assembly table according to claim **5**, wherein the clamping piece includes a clamping shaft and a clamping sleeve matching to each other.

**7**. The assembly table according to claim **5**, wherein the clamping piece includes an external clamping slab and an internal clamping slab matching to each other.

**8**. The assembly table according to claim **2**, wherein a clamping piece is respectively disposed between each of the two first table leg frames and each of the two second table leg frames.

**9**. The assembly table according to claim **8**, wherein the clamping piece includes a clamping shaft and a clamping sleeve matching to each other.

**10**. The assembly table according to claim **8**, wherein the clamping piece includes an external clamping slab and an internal clamping slab matching to each other.

**11**. The assembly table according to claim **3**, wherein a clamping piece is respectively disposed between each of the two first table leg frames and each of the two second table leg frames.

**12**. The assembly table according to claim **11**, wherein the clamping piece includes a clamping shaft and a clamping sleeve matching to each other.

**13**. The assembly table according to claim **11**, wherein the clamping piece includes an external clamping slab and an internal clamping slab matching to each other.

**14**. The assembly table according to claim **4**, wherein a clamping piece is respectively disposed between each of the two first table leg frames and each of the two second table leg frames.

**15**. The assembly table according to claim **14**, wherein the clamping piece includes a clamping shaft and a clamping sleeve matching to each other.

**16**. The assembly table according to claim **14**, wherein the clamping piece includes an external clamping slab and an internal clamping slab matching to each other.

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