1,608,592

Nov. 30, 1926.

H. C. FUNK

TOY CONSTRUCTION UNIT

Filed Feb. 24, 1926

Fig. 1.

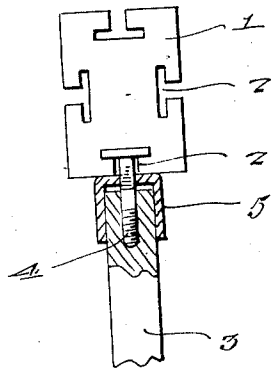
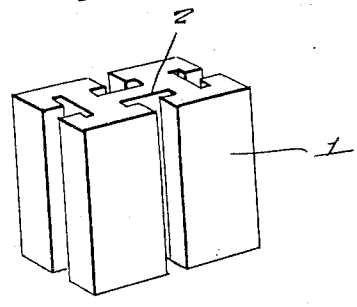


Fig. 2.



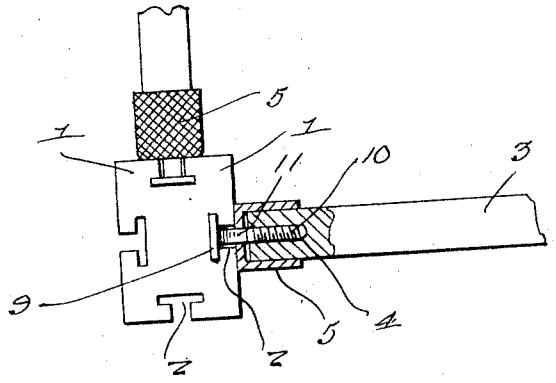


Fig. 3.

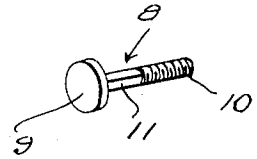
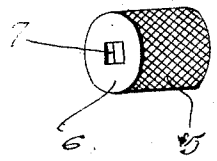


Fig. 4.



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Patented Nov. 30, 1926. 1,608,592

UNITED STATES PATENT OFFICE.

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TOY CONSTRUCTION UNIT.

Application filed February 24, 1926. Serial No. 90,346.

The present invention relates to a highly novel unit construction for use in forming or building pieces of toy furniture.

One of the important objects of the present invention is to provide a set of toy construction units wherein the parts may be readily and easily assembled or disassembled, the units being of such a construction as to provide a rigid structure when all the parts have been assembled.

A still further object is to provide a set of toy construction units which may be readily and easily handled for assembling the same in constructing any desired piece of toy furniture.

A still further object is to provide a set of toy construction units wherein each unit is simple in construction, inexpensive, strong, and durable and further well adapted to the purpose for which it is designed.

Other objects and advantages of this invention will become apparent during the course of the following description taken in connection with the accompanying drawing.

In the accompanying drawing forming a part of this application and in which like numerals designate like parts throughout the several views:

Figure 1 is a view partly in elevation and partly in section of the set of toy construction units embodying my invention showing the same in the act of assembly.

Figure 2 is a detail perspective view of one of the blocks.

Figure 3 is a similar view of the thimble, and

Figure 4 is a detail perspective view of the connecting bolt.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates a substantially rectangular shaped block forming one of the units of the present device, the same being provided with a substantially T-shaped slot 2, in each of the sides thereof as is clearly illustrated in Figure 2. The purpose of the provision of the T-shaped slot in the respective sides of the block will be hereinafter more fully described.

Another unit of the set comprises a rod or cylindrical bar 3. A threaded socket 4 is provided in each end of the rod 3. Another unit of the set comprises a thimble 5. This thimble is of such size as to fit over each end of the rod or circular bar 3, yet be permitted to rotate therearound for a purpose to be hereinafter more fully described. The outer closed end 6 of the thimble is provided with a central square shaped opening 7 as is clearly illustrated in Figure 3. If desired, the outer surface of the thimble may be knurled so as to facilitate the easy manipulation thereof.

The other unit of the set comprises a bolt designated generally by the numeral 8, the same including a flat head 9 which is formed on one end of the shank of the bolt, the free end of the shank being threaded as at 10 and the portion of the shank which is disposed between the threaded portion 10 and the flat head 9 is substantially square in cross section for cooperation with the square shaped opening 7 formed in the closed end 6 of the thimble 5 as will be presently apparent. The square shaped portion of the shank of the bolt is designated by the numeral 11.

In assembling the unit, when constructing the desired piece of furniture, one pair of blocks are arranged in spaced relation. The pair of bolts 8 have their flat heads disposed in the opposed slotted sides of the blocks so that the threaded ends of the bolts extend outwardly of the opposed sides of said blocks as do also the outer portions of the square portions of the shanks of the bolts. A thimble 5 is then placed on the square portion 11 of each of the bolts 8 so that the outer face of the closed end 6 will be disposed in abutting relation with the sides of the respective blocks.

The threaded ends 10 of the bolts are disposed in the outer ends of the threaded sockets 4 provided in the respective ends of the rod 3 and it is obvious that when the thimbles 5 are rotated in one direction, the bolts will be caused to rotate so that the threaded ends of the bolts will move inwardly within the threaded sockets 4, thus provide a rigid connection between the spaced blocks and the rod 3. It is of course understood that the shank portions of the T-shaped slots 2 which are formed in the sides of the blocks are of such width as to permit the rotation of the square shaped shanks 11 of the bolts in order that the necessary tightening of the units may be accomplished when the heads of the bolts are disposed in the slots.

In this manner, the set of units may be readily and easily assembled together to form the desired piece of furniture, and also

may be readily dissassembled whenever desired.

The provision of a set of toy construction units of the above mentioned character may be employed in forming various pieces of furniture, and the parts are of such construction as to enable children to easily handle and manipulate the same in building the various desired pieces of furniture.

As many units of the character above described and shown may be employed as is found necessary, and the simplicity of the same renders the set very inexpensive, yet strong and durable.

While I have shown the preferred embodiment of my invention it is to be understood that minor changes in the size, shape, and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. A set of toy construction units comprising a pair of spaced blocks, each of said blocks being provided with substantially T-shaped slots in the respective sides thereof, a rod having threaded sockets provided in the ends thereof, a bolt having its threaded end disposed in each of the threaded sockets, the head of each bolt being disposed within the slots provided in the opposed sides of the blocks, means for providing a tight connection between the blocks and the ends of the rods, said last mentioned means comprising a pair of thimbles disposed over the ends of the rods and adapted for rotation thereon, the closed ends of the thimbles being provided with substantially square shaped openings through which the bolts pass, the shank portions of the bolts adjacent the heads thereof being square for cooperation with the square openings in the closed ends of the thimbles whereby said bolts will rotate simultaneous with the thimbles.

2. A construction unit comprising a member having threaded sockets formed in its respective ends, a bolt having its threaded end received in each of said sockets, and means for adjusting the bolts with respect to the ends of said members, said means comprising a pair of thimbles disposed over the edges of the member and adapted for rotation thereon, the closed ends of the thimbles being provided with square openings through which the bolts pass, the shank portions of the bolts adjacent the heads thereof being square for cooperation with the square openings in the closed ends of the thimbles whereby the bolts will rotate simultaneous with the thimbles.

3. A set of toy construction units comprising a pair of spaced blocks, each of said blocks being provided with substantially T-shaped slots in the respective sides thereof, a rod having threaded sockets provided in the ends thereof, headed bolts having their threaded ends disposed in the respective sockets, the head of each bolt being disposed within the slots provided in the opposed sides of the blocks, said bolts being adapted for longitudinal adjustment to afford a tight connection between the blocks and the ends of the rod.

In testimony whereof I affix my signature.

HERBERT C. FUNK.