Oct. 9, 1928. 1,687,098

C. J. KINDEL

BED CONSTRUCTION

Filed June 21, 1926

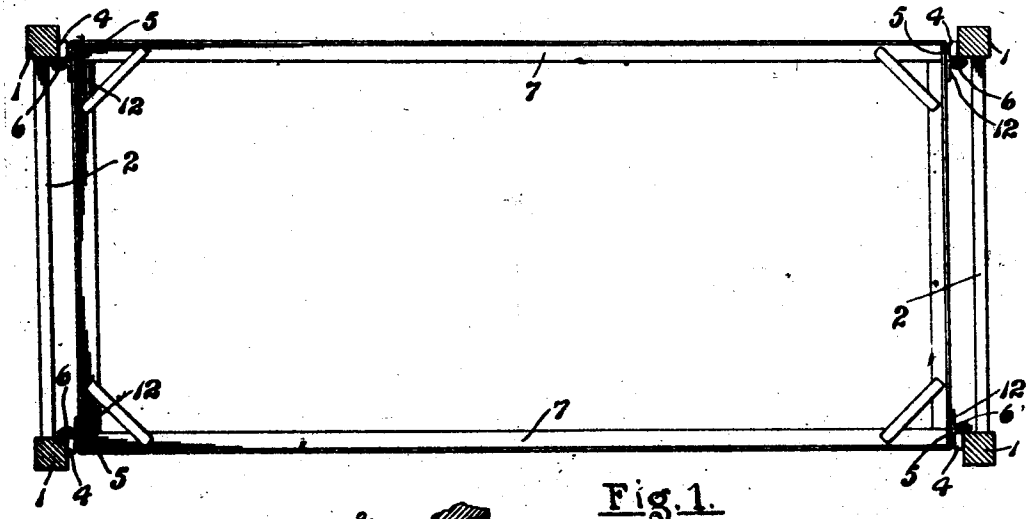

Fig. 1.

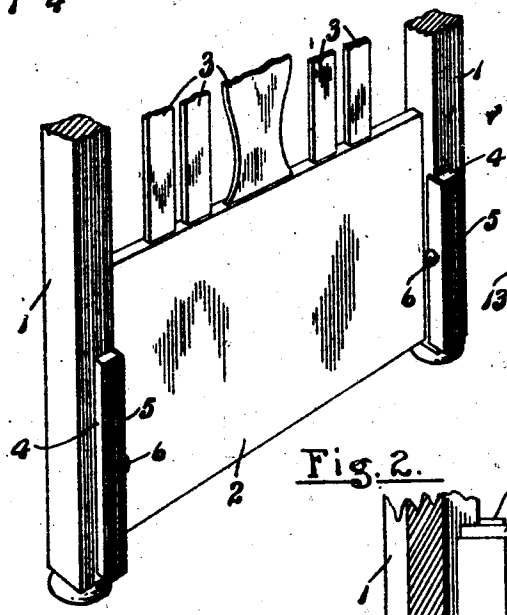

Fig. 2.

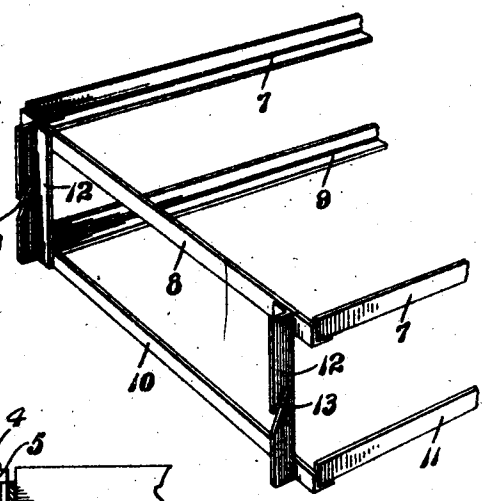

Fig. 3.

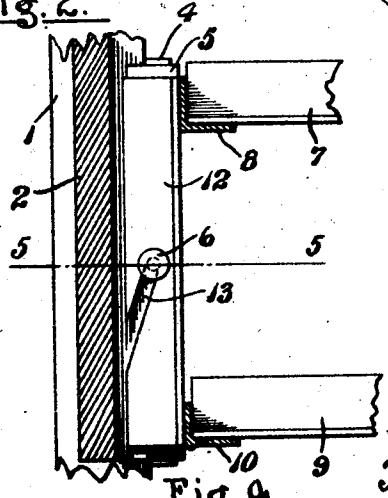

Fig. 4.

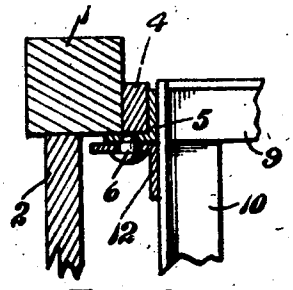

Fig. 5.

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UNITED STATES PATENT OFFICE.

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BED CONSTRUCTION.

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This invention relates to a bed construction and is primarily concerned with a knock down construction whereby the ends of a bed frame and an intermediate spring supporting frame construction may be quickly and easily assembled and as quickly and easily disassembled whenever desired. The bed structure which I have devised includes many novel details of construction and arrangements of parts for effectively attaining this end with a particular type of supporting frame which is a feature of the bed construction. It is an object and purpose of the present invention to construct a device of the class described in the simplest, most practical, durable and efficient manner as will appear when an understanding of the invention is had from the following description taken in connection with the accompanying drawing, in which,

Fig. 1 is a plan view of the bed frame, the corner posts of which are shown in horizontal section.

Fig. 2 is a fragmentary enlarged perspective view of the lower part of one of the ends of the bed frame.

Fig. 3 is a fragmentary perspective view of an end portion of the intermediate supporting frame structure between the said ends.

Fig. 4 is a fragmentary vertical section enlarged through one end of the bed frame, the section being on a plane longitudinal of the bed, and

Fig. 5 is a horizontal section taken substantially on the plane of line 5—5 of Fig. 4.

Like reference characters refer to like parts in the different figures of the drawing.

The two end members of the bed are substantial duplicates, each including two spaced apart corner posts 1 which in the design shown are connected near their lower ends by a vertical cross panel 2 permanently secured at its ends to the posts. There are also shown a number of vertical bars 3 which may be of any desired type or design connected at their lower ends to the upper edge of the panel 2 and being connected at their upper ends to an upper cross member (not shown) which is disposed between the upper ends of the posts. The intermediate connecting structure between the two posts of a bed end member is of no particular or essential importance in the present invention but may be widely varied.

A vertical bar or block 4 is permanently secured to each of the posts 1 at the inner side and at the inner corner of each post. A metal angle member 5 lies against and is permanently secured to each block 4, one leg of the angle covering the inner side of the block while the other extends along the inner edge of the block and laps over onto a portion of the inner side of the post 1. A headed stud 6 is secured to the inner leg of the angle member 5, the head of which is spaced a short distance from the side of said leg.

A frame structure is designed to be detachably connected to and supported by the ends of the bed. This frame comprises in its construction two upper angle bars 7 spaced apart and parallel to each other and lying longitudinally of the bed, connected at their ends by two cross angle bars 8 so as to make a rectangular frame. Directly below one of the angle bars 7 is an additional angle bar 9 spaced from the upper bar 7 and paralleling the same, this forming one member of a lower rectangular frame which has ends 10 and a second side 11 located below the other side 7 of the upper rectangular frame. These frames are spaced apart and held rigid with respect to each other by vertical angles 12, one leg of which lies against the outer side of the cross bars 8 and 10 and is permanently secured thereto while the other leg extends outwardly at right angles and has an upwardly and inwardly inclined slot 13 cut therein, as best shown in Fig. 3. The upper frame comprised of the bars 7 and 8 is designed to support any suitable type of spring with a mattress above it while the lower frame may support an extension to the bed which, as it forms no part of the present invention, is not shown or described, being fully outlined and described in a companion application. The slotted legs at 13 of the vertical angle bars 12 connecting the end bars 8 and 10 of the upper and lower rectangular frames are designed to detachably engage with the headed pins 6, previ-

ously described, it being evident that said pins freely enter the slots, the outwardly extending legs of the bars 12 lying alongside of the legs of the angle bars 5 to which studs 6 are secured.

A very firm, secure and rigid construction is thus made, one which is very easily assembled or disassembled and one which can be economically constructed. The ends of the bars 8 and 10 beyond the vertical bars 12 are brought to bear tightly against the angle bars 5 so that there is bearing surface at two spaced apart points against the posts from the interposed horizontal connecting frame structure which supports the springs and mattresses of the bed.

The construction described is very practical and has so proved in service. Variations in minor detail in construction may be resorted to without departing from the invention which is defined in the appended claim and I consider myself entitled to all forms of structure coming within the scope of said claim.

I claim:

In a bed having a frame and detachable ends, vertically arranged angle members attached to the respective ends of the frame, the outwardly extending portion of each angle member having an inclined slot near its vertical center, and angle shaped retaining members adapted to be permanently secured in vertical position to said detachable ends, one face of each retaining member having a pin projecting outwardly therefrom near its vertical center, each of said pins being adapted to enter one of said inclined slots whereby the other face of the retaining member will be caused to closely engage an end of said frame.

In testimony whereof I affix my signature.

CHARLES J. KINDEL.