March 27, 1956 J. KELLER 2,739,319

COMBINATION BED AND ADJUSTABLE EXTENSION PANEL

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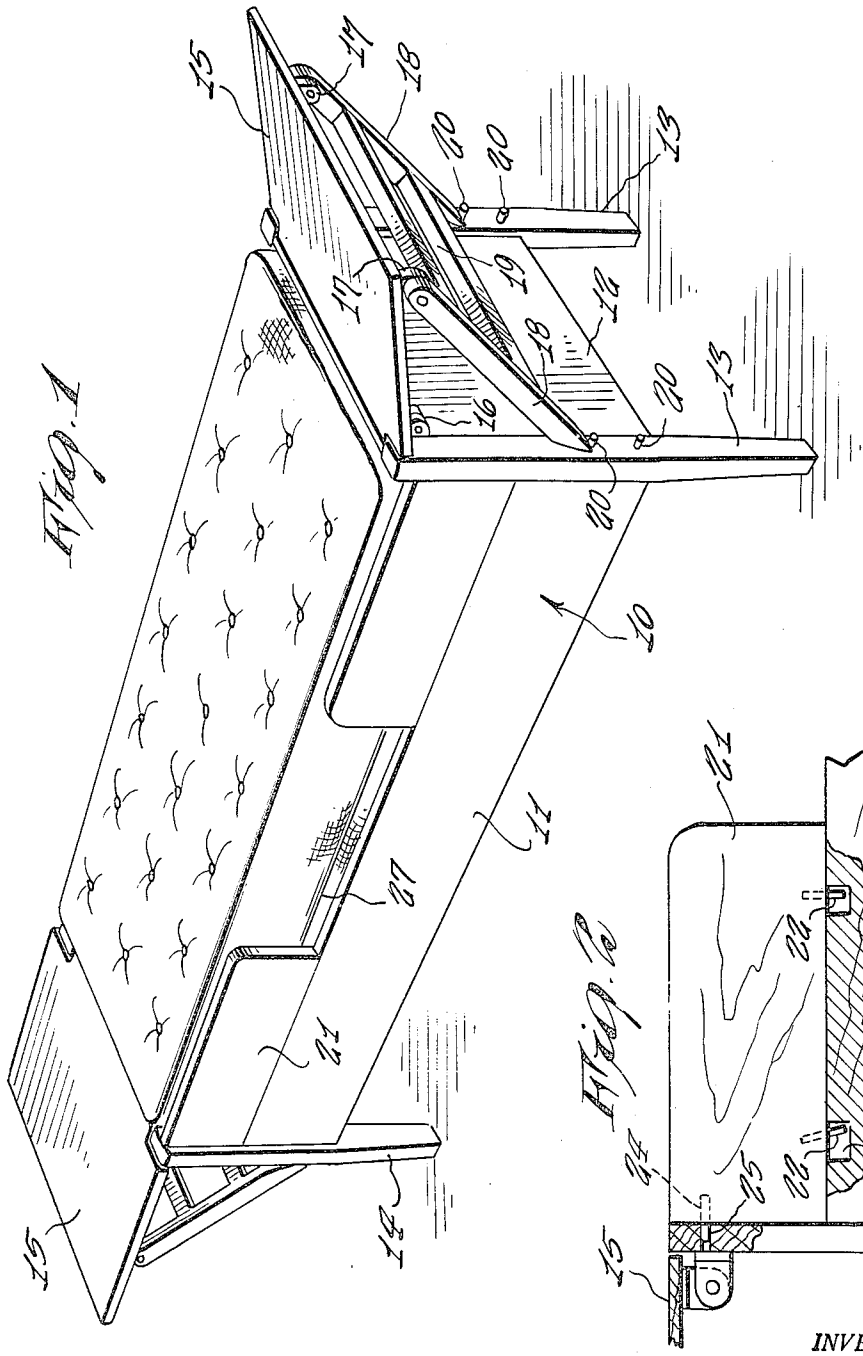


Fig. 1

Fig. 2

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Fig. 3

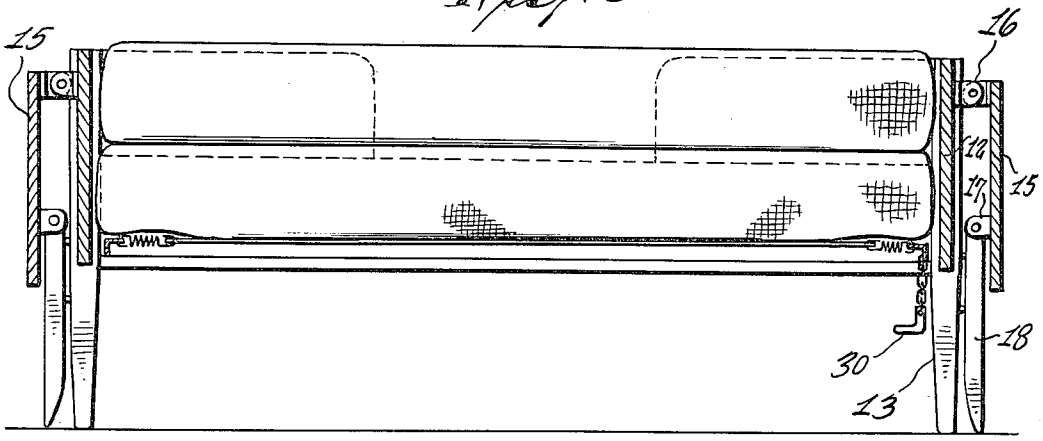


Fig. 4

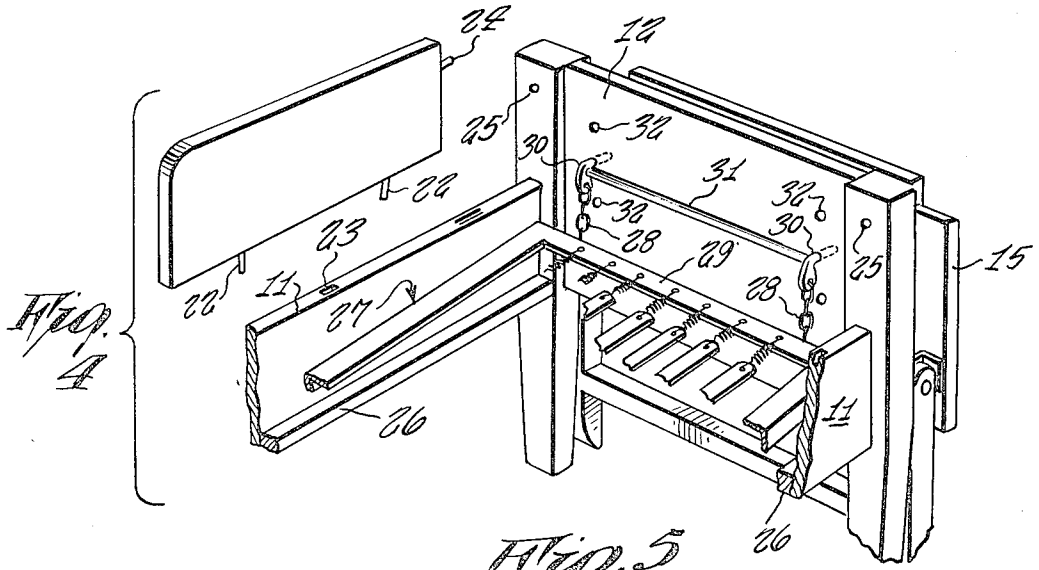
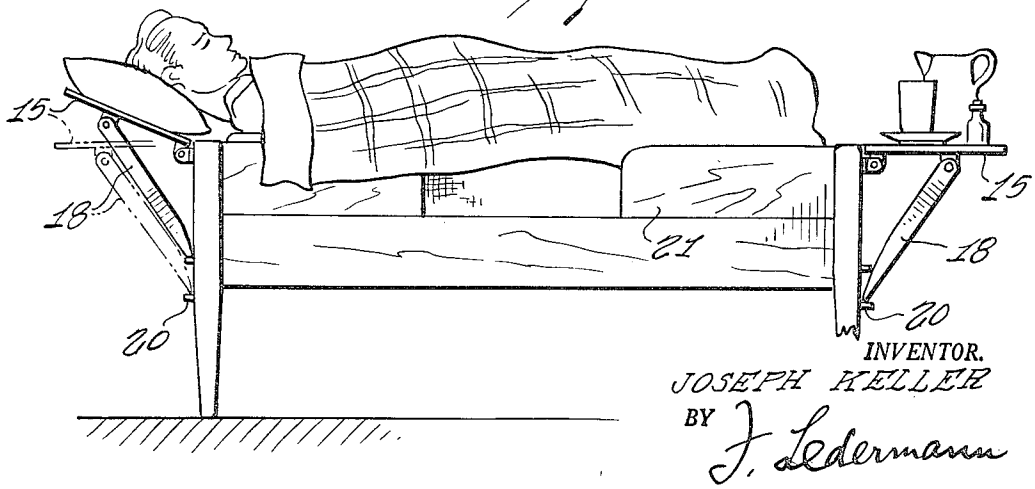


Fig. 5



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COMBINATION BED AND ADJUSTABLE EXTENSION PANEL

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1 Claim. (Cl. 5—68)

This invention relates to combination adjustable beds, cots or the like, and aims to provide in combination a bed for an adult, a cot or couch for day use, a crib for one child or baby or for twins, with service trays at both ends or, if desired, only one end, and means for raising or lowering or slanting the spring or other mattress support.

The above broad as well as additional and more specific objects will be clarified in the following description, wherein characters of reference refer to like-numbered parts in the accompanying drawings. It is to be noted that the drawings are intended solely for the purpose of illustration, and that it is neither desired nor intended to limit the invention necessarily to any or all of the exact details of construction shown except insofar as they may be deemed essential to the invention.

Referring briefly to the drawings, Fig. 1 is a perspective view of the combination article embodying the present invention, with adjustable disappearing service trays at both ends thereof.

Fig. 2 is a fragmentary side elevational view of the same, with parts broken away and partly in section.

Fig. 3 is a side elevational view of the said combination article, showing the service trays in folded down and out of the way position, with parts broken away and partly in section.

Fig. 4 is an exploded fragmentary perspective view of the said combination article, with parts broken away and partly in section, showing the means for raising or tilting the mattress supporting frame or spring and also showing the detachable side boards.

Fig. 5 is a side elevational view of the combination article, illustrating one way in which it may be used as a bed for an adult.

Referring in detail to the drawings, the numeral **10** indicates the frame of the combination article, which has the appearance of a bed, the frame comprising the two opposed side boards **11** and the two end boards **12**, supported on legs **13** on one end and on legs **14** at the other end. The boards **11** are positioned approximately intermediate the height of the legs, whereas the end boards **12** extend from the level of the lower edges of the boards **11** to a level approximating that of the tops of the legs, or posts, **13** and **14**.

At each end of the bed an adjustable disappearing service table **15** is mounted, but since both tables are alike but one will herein be described in detail. The table or panel **15** is attached by one or more hinges **16** to the top of the end board **12**, or, if desired, of the legs **13**. In eyelets or ears **17** on the outer edge of the underside of the panel **15**, the upper extremities of legs **18** are pivoted. The latter are rigidly joined by one or more cross-members **19** to maintain the legs **18** in a rigid unit lying in a common plane. Each post **13** is provided with a number of vertically spaced projecting pins or the like **20**, each pin of one post lying in the same horizontal plane as one of the pins of the other post.

It is apparent that the panel **15**, when not in use, may

be folded down on its hinges into the position shown in Fig. 3, that is, substantially vertical and close to the end board **12**, with the legs **18** touching the floor and positioned substantially vertically between the board **12** and the panel. To elevate the panel to the upwardly inclined position shown at the right in Fig. 1, the panel is swung upward and the legs **18** are swung in and rested on the second from the bottom pair of pins **20**. To position the panel horizontally for use as a service table, as shown at the right in Fig. 5, the legs **18** are supported on the lowermost pair of pins **20**. With the panel sloped as shown at the right in Fig. 1 and at the left in Fig. 5 it is apparent that the left-hand or sloping panel may be used to support a pillow and hence the head of an adult occupying the bed.

It is to be noted that the combination article of this invention, by being made of a width of a single bed and of the length of a boy's or girl's bed, can, with the improvements herein presented, be utilized as a permanent bed for a person all his life, from infancy to adulthood, as will become clearer below.

To accommodate the bed to an infant, the side walls or guards **21** shown in the various views and which are detachable, may readily be installed. For this purpose each such guard is provided with two downwardly extending pegs **22** engageable in recesses **23** in the top edge of the board **11**, and with a peg **24** engageable in a recess **25** in the adjacent bed post. Thus these guards may readily be mounted in place or removed. They are of course desirable in case an infant occupies the bed as a crib, and in fact two infants, such as twins, may readily occupy it, each positioned with the head at one end of the crib and the feet at the other, that is, each extending in the opposite direction.

The usual longitudinal spring frame supports **26** are provided along the inner lower edges of the side boards, to support the spring frame **27** in horizontal position. To tilt the latter upward at one end, as may be desired for an adult invalid, chains **28** are secured at one end to the end member **29** of the frame **27** and have pegs **30** at their other ends, with a rigid bar **31** rigidly joining the pegs **30**. Spaced tiers of vertically spaced recesses **32** are provided on the inside of the end bed board **12**, into any horizontal pair of which the pegs **30** may be inserted and thus support the end **29** of the spring frame in any of a number of tilted positions, as illustrated in Fig. 4.

The length of the bed between the ends of the frame **10**, that is, the length of the spring and mattress, is preferably less than the length of the usual adult bed, so that it may serve for a small child as well as a nearly grown youth. When the youth has grown nearly to the height of an adult, instead of having to discard the small bed in favor of a larger one, all that need be done is to extend its effective length by supporting one of the panels **15** sloped as shown at the left in Fig. 5.

In the daytime, the combination article may be used as a couch, as is obvious, and both end tables or panels may be positioned horizontally to serve as service tables or trays.

Thus an article of the kind indicated has been provided which is very economical and useful, especially in this age of scarcity of dwelling accommodations and overcrowded families.

Obviously, modifications in form or structure may be made without departing from the spirit or scope of the invention.

I claim:

An article of furniture comprising a rectangular frame including two opposed side boards and two opposed end boards, posts supporting said frame at the corners thereof, at least one of said end boards having a panel hingedly secured to the top thereof on the outside of the board,

legs hinged at their upper ends to said panel near the outer edge of the panel, each of said posts having a tier of vertically spaced pins extending outwardly therefrom, each of said pins in one of said posts lying in the same horizontal plane as one of the pins in the other of said posts, the lower ends of said legs being adapted to rest on any two of said pins lying in the same horizontal plane thereby supporting said panel in any of a plurality of positions, the lowermost of said pins in said posts being positioned spaced above the lower extremities of the posts, said legs having a length such as to support said panel in horizontal position when said legs rest on said lowermost pins and at an obtuse angle with respect to said end board when said legs rest on any of said pins in a common horizontal plane higher than said lowermost pins, said panel being normally positioned vertically by gravity suspended from the hinge axis of securement of the panel to said end board, the length of each of said legs between the lower extremities thereof and the hinge axis of the upper ends thereof being equal to the distance between the hinge axis of the leg and the lower extremities of said

posts when said panel is in normally suspended vertical position whence said legs are positioned vertical and the lower extremities thereof contact the floor supporting the article of furniture when said panel is in said vertical suspended position, so that said legs support said panel and release the hinge of the latter in operative as well as in inoperative position of said panel.

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