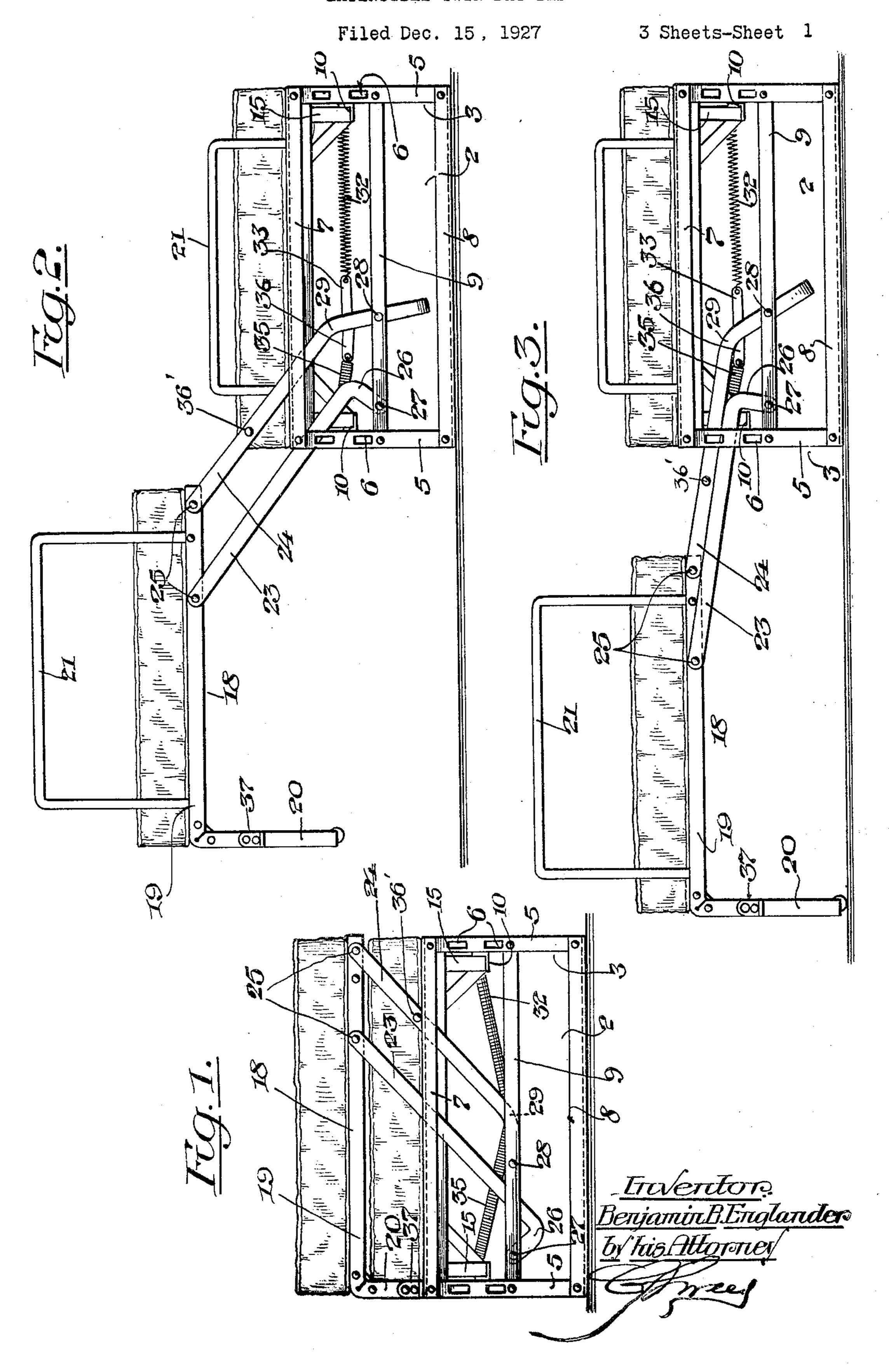
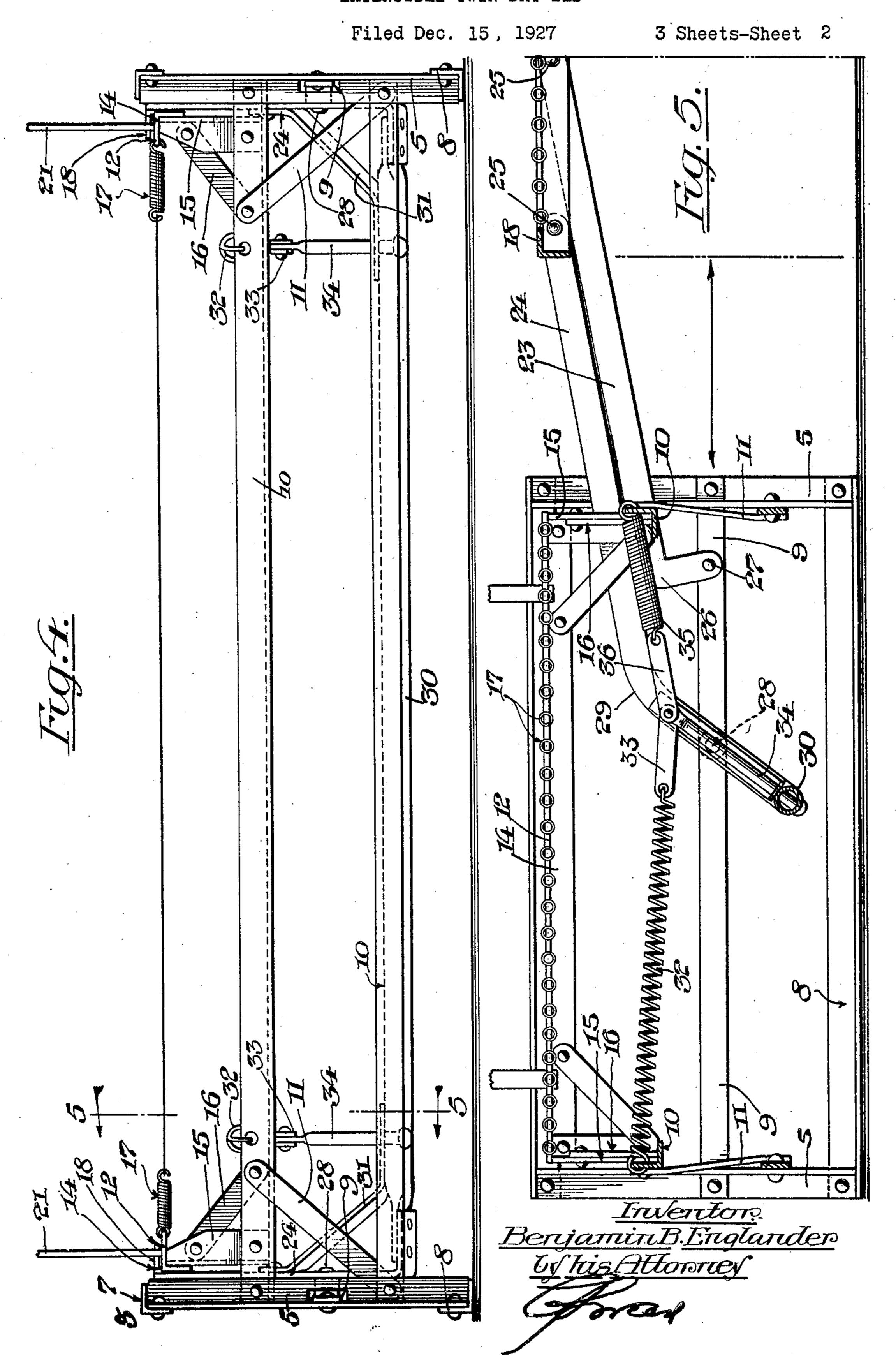
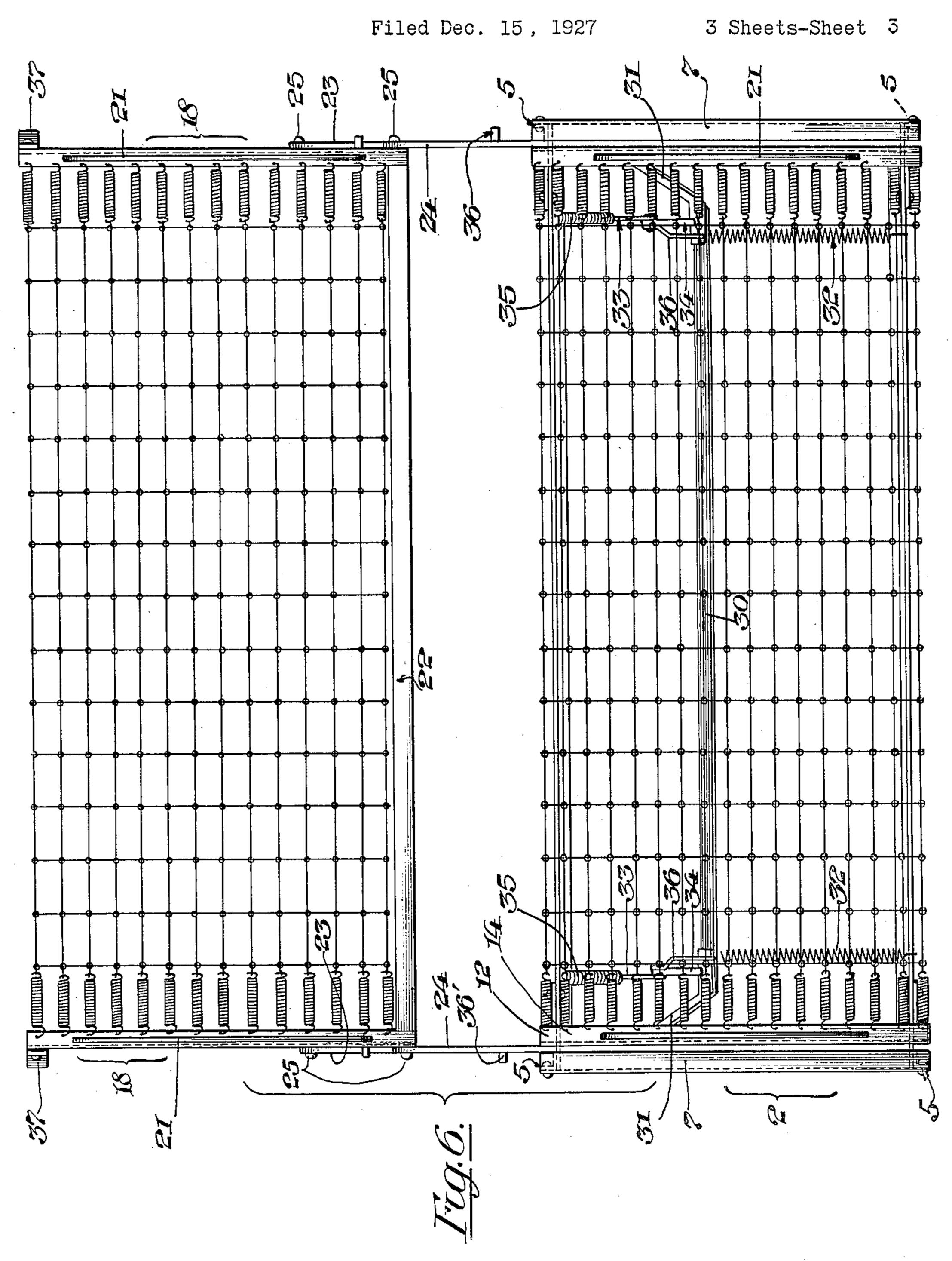
EXTENSIBLE TWIN DAY BED



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UNITED STATES PATENT OFFICE

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EXTENSIBLE TWIN DAY BED

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This invention relates to beds, the object simplified form of linkage connections and 5 to be superimposed one upon the other to the bed clothing to be manipulated from the 55 tween for the mattress and bed clothing of the under bed and an ample passageway between the beds when extended to permit the 10 proper manipulation and tucking in of the bed clothing at the inner sides of the beds.

provision of a twin day bed simple in construction, comparatively inexpensive to make and easily operated, the extensible section of The construction of this twin day bed is 65 which is so connected with the main section that the inner side thereof is not only efficiently supported by the main section but at a considerable distance from the main section, 29 whereby ample passageway is obtained for the making up of the beds on the inner sides thereof, and in which also the connecting or linkage means between the beds is located inside of the ends of the main bed section, ²⁵ whereby not only is a more presentable appearance obtained, but there is less liability of injury to the person or damage to the clothes of the operator of the bed.

I am aware that various forms of what is so commonly called "double beds" have been patented, in which one section slides relatively to its companion section, or one section folds upon its companion section, but these beds are not twin beds in the commonly accepted meaning of this term, in which the occupants are entirely separated so that the restlessness of one cannot disturb the other, but are simply double beds, in which the inner by the inner side of the other and, therefore, tion is not limited to the details of construc- 90 of the present invention is the provision of an ploy is for the purpose of description and not 95 extensible twin bed in which the supporting of limitation. means for the extensible section is in the form of linkage connections so constructed, organized and located that the extensible section will be connected with the main bed by a

of the invention being to provide an im- yet it will be effectively supported when in proved extensible twin bed of simplified form extended position by the main bed but with in which the beds are linked together so as an ample passageway therebetween to permit form a day bed, with ample space therebe- inner sides of the sections and yet notwithstanding this spaced distance apart of the two sections, the beds will close in such manner that the extensible section will rest upon the top of the main section so as to present a 60 day bed or couch appearance when in use and A further object of the invention is the yet have ample space between the springs of the two sections to house the bedding of the main section.

> such that either flat springs of various forms, such as of linkage form or woven wire, or spiral springs, or a box form of mattress may be used. In Figs. 1 to 3 the box form of spring is shown and in Figs. 4 to 6 a flat 70 spring is shown.

In the drawings accompanying and forming a part of this specification:

Figure 1 is an end view of this improved twin bed in its closed position;

Fig. 2 is an end view thereof, partly open; Fig. 3 is an end view of the beds in their extended or open position;

Fig. 4 is a side view of the main bed; Fig. 5 is a cross-sectional view of the main 80 bed taken on line 5—5, Fig. 4 and looking in the direction of the arrow, and

Fig. 6 is a top view of this improved twin bed in its extended position.

Similar characters of reference indicate 85 corresponding parts in the several views.

Before explaining in detail the present improvement and mode of operation thereof, I side of one rests upon or is directly supported desire to have it understood that the invenrequires the occupants to sleep side by side tion and arrangement of parts which are iland the use of double-width bed clothing, it lustrated in the accompanying drawings, not being practical to use therewith or tuck since the invention is capable of other embodin single-width bed clothing, and the object iments, and that the phraseology which I em-

This improved extensible twin day bed in the preferred form thereof shown comprises a main bed or section 2, consisting of a pair of end supporting frames 3, each made up in 100

may be used. The legs of each pair are con-5 nected at their tops and bottoms by angleiron cross-bars 7 and 8 and midway of their lengths by a cross-brace 9 and these main end frames are also connected lengthwise thereof by suitable side bars 10 which are also con-10 nected to the end frames by suitable diagonal braces 11. The side bars are shown of angle-15 frames 12 each comprising a top cross-bar 14 tensible section in its extended position, the 80 20 the spring 17 of whatever form is used. cross bars 7 of the main section and thus 85 linkage levers hereinafter referred to. The from the top of the main section.

25 extensible bed or section likewise comprises a The legs of the extensible section are pro-30 ble section may be provided with suitable with the stop pins 36' effectively support the 55 headrests or extensions 21. These end used.

bar 19 of the extensible section with their pivots 25 in alinement. The lower ends of these levers are bent, the lever 23 being bent 45 at a right angle as at 26 and pivotally connected at its end 27 to the inside of the intermediate brace 9 of the main section while the other lever 24 is bent at a greater angle than a right angle and likewise pivotally connected as at 28 intermediate the length of the bent portion thereof as at 29 to the inside of the brace of the main section, the pivots 27 and 28 of the two links being in alinement, whereby these levers are parallely spaced. Both of the levers 24 extend below the braces 9 and are connected together below these braces 9 by a lengthwise extending bar 30 which may be formed integral with or riveted to the levers 24 and this lengthwise extending bar 30 is in turn connected at each end by a diagonal brace 31 with the levers 24.

For assisting in the closing and opening of the extensible bed two pair of springs are provided, one 32 of each pair being connected with one side of the main section, as one of

the present instance of a pair of angle-iron the side bars, and with a pivoted link 33 pivlegs 5 having slots 6 for the reception of the otally connected to a bolt 34 carried by the hooks of suitable ornamental heads which lengthwise extending bar 30 while the other spring 35 of the pair is connected to the opposite side bar of the main section and to 70 a bent link 36 also pivotally connected to the bolt 34, whereby the weight of the extensible section in closing or opening will be largely compensated for by these springs.

The linkage levers are so located and piv- 75 otally connected to the bed sections that when iron formation and supported thereby adja- the extensible section is extended, one lever cent to these end frames, but spaced inwardly 24 will rest upon the other 23, and thus eftherefrom are a pair of supplemental end fectively support the inner side of the exand a pair of depending members or legs 15 legs thereof supporting the outer side of riveted or bolted to the side bars and also the extensible section. The link levers 24 diagonally braced therefrom, as by braces 16. are provided with suitable stop pins 36' which These supplemental end frames 12 support act both as stops to engage the transverse Thus between the main end frames 3 and the limit the closing movement of the extensible supplemental end or spring supporting section and also to support the inner side of frames 12, a clearance space is formed for the the extensible section at a spaced distance

pair of end frames 18 preferably of angle-vided with angle-iron rests 37 at a spaced iron, each consisting of a transverse or cross-distance below the tops thereof, which, when bar 19, and a depending leg 20 at its outer the extensible section is closed, rest upon the side, and in some forms thereof this extensi- cross-bars 7 of the main section and together extensible section at the desired spaced disframes are connected by suitable side bars 22 tance above the main section for the housing and support the spring of whatever form is of the mattress, when a box mattress is used, and the bed clothing of the main section.

To properly support the extensible section — It will be observed that by reason of the 100 from the main section and permit the swing- construction of the link levers 24 wherein ing thereof into an extended or closed posi- they extend below their pivotal connection tion relatively to the main section, a pair of with the main section and connected at their parallel links or levers 23 and 24 are provided lower ends by a lengthwise bar carrying the 40 at each end of the sections, these levers being spring connected bolts, that this portion of 105 pivotally connected to the outside of the cross the link levers acts as a counterbalancing means for the extensible section and together with the springs, very much facilitate the shifting of the extensible section and relieve the housewife of the weight thereof in ma- 110 nipulating the extensible section. It will also be seen that the linkage levers 23 and 24 project between the supplemental end frames 12 and the main end frames 3 and are on the inside of the main end frames and thus out of the way, so that any danger of catching in the clothes of the housewife or injuring her hands is avoided, while a more presentable twin bed is obtained.

vin bed is obtained.

By reason of the combined spring and counterbalanced construction and the location of the springs in the manner set forth, the extensible section may be easily manipulated, and by reason of the construction and 125 location of the parallel links, the extensible section is spaced just the proper distance above the main section to house the bedding thereof, while in its extended position, an ample passageway is provided to permit the 130

manipulation of the bed clothing at the inner sides of both bed sections.

It is to be understood that by describing in detail herein any particular form, struc-5 ture or arrangement, it is not intended to limit the invention beyond the terms of the several claims or the requirements of the prior art.

Having thus explained the nature of my 10 said invention and described a way of constructing and using the same, although within which it may be made, or all of the modes

of its use, I claim:

1. An extensible twin bed comprising a main bed section having a pair of spaced, stationary, permanently connected, end frames at each end forming a clearance space therebetween, the outer frames at each end being connected by side bars and the other frames supporting a spring, said frames havan extensible bed section connected to the main section to have the inner side thereof supported by the main section at an ample distance therefrom to provide a passageway therebetween when in extended position and also supported by the main section in superspace therebetween to receive the bedding of main section, when in closed position, to form 95 the end frames thereof.

main bed section having a pair of spaced, thereof, one of said linkage connections carframes at each end forming a clearance space sition to engage the main section at the therebetween, the outer frames at each end top and space the sections apart when in subeing connected by side bars and the other perposed position. frames supporting a spring, said frames hav- 6. An extensible twin bed comprising a ing their tops at substantially the same level, fixed main bed section, a swinging extensible an extensible bed section connected to the bed section spaced, when in extended posimain section to have the inner side thereof tion, an ample distance from the main section supported by the main section at an ample to form a passageway therebetween and from 110 distance therefrom to provide a passageway the main section when in closed position, to therebetween when in extended position and form a bedding space, the main section havalso supported by the main section in super- ing spaced apart frames at each end with posed position when closed with sufficient their tops at substantially the same level, space therebetween to receive the bedding of and parallel linkage connections at each end 115 the main section, and parallel levers connect- and comprising a pair of levers, one of each ing said sections at each end with the levers pair bent at substantially a right angle and located in the clearance space between the the other at an angle greater than a right end frames thereof, said levers being pivotal- angle, and both having their angular porly connected to the inner sides of a pair of tions pivotally connected to the main sec- 120

3. An extensible bed comprising a main 7. An extensible twin bed comprising a bed section having main end frames and fixed main bed section, a swinging extensible spring-carrying supplemental end frames bed section spaced, when in extended posispaced inwardly from the main end frames tion, an ample distance from the main section 125 thereof, side bars connecting the main end to form a passageway therebetween and from frames, a swinging extensible bed section, the main section when in closed position, to and linkage connections pivotally connected form a bedding space, the main section havwith said sections and located between the ing spaced apart frames at each end with

section, the frames at each end of the bed being spaced apart with tops substantially level and the linkage connections being between the frames at each end of the bed, said frames forming a guide-way for said con- 70

nections.

4. An extensible twin bed comprising a main bed section, a swinging extensible bed section spaced, when in extended position, an ample distance from the main section to form 75 a passageway therebetween, said main secout attempting to set forth all of the forms tion having spaced main and supplemental end frames, the latter being supported between the main end frames, side bars connecting the main end frames, parallel linkage 80 connections at each end pivotally connected with the extensible section and with the main section between the main and supplemental frames thereof, a counterbalancing bar connected to part of said linkage connections at 83 each end of the bed, upstanding bolts on said ing their tops at substantially the same level, bar and springs connected with said bolts and main section for facilitating the shifting of the extensible section.

5. An extensible twin bed comprising a so main bed section, a swinging extensible bed section spaced, when in extended position, an ample distance from the main section to form posed position when closed with sufficient a passageway therebetween and from the the main section, and parallel levers con- a bedding space, and each having end frames, necting said sections at each end with the said extensible section having a leg at each levers located in the clearance space between outer end provided with a rest, and parallel linkage connections pivotally connected to 2. An extensible twin bed comprising a the main and extensible sections at each end 100 stationary, permanently connected, end rying a stop, said rest and stop being in po-

the end frames of the main section. tion, between the frames at each end thereof.

95 end and supplemental frames of the main their tops at substantially the same level and 130

comprising a pair of levers between the the top of the main section at the ends to frames at each end, one of each pair bent at support the extensible section above the main substantially a right angle and the other at section, a bar connecting the ends of part of an angle greater than a right angle, and both the linkage connections at the two ends of the 70 having their angular portions pivotally connected to the main section at the forward side of the longitudinal axis of the main section and to the rearward side of the longitudinal axis of the extensible section.

fixed main bed section, a swinging extensible bed section spaced, when in extended position, an ample distance from the main sec-15 tion to form a passageway therebetween and from the main bed, when in closed position, to form a bedding space, the main section having spaced apart frames at each end with their tops at substantially the same level, 20 and parallel linkage connections at each end of the bed and pivotally connected to the extensible section and to the inside of the end frames of the main section and comprising a pair of levers, said levers being disposed be-25 tween the frames at each end of the bed, one of each pair bent at substantially a right angle and pivotally connected at the end thereof to the main section and the other bent at an angle greater than a right angle and 30 pivotally connected to the main section intermediate the length of such bent portion.

9. An extensible twin bed comprising a main bed section, a swinging extensible bed section spaced, when in extended position an 35 ample distance from the main section to form a passageway therebetween and from the main section when in closed position, to form a bedding space therebetween, said main section having frames at each end, said main 40 section having a pair of supplemental frames spaced inwardly from its said end frames for supporting a spring, longitudinal bars connecting the first-named end frames, a pair of parallel linkage connections at each end of 45 the bed and pivotally connected with the extensible section and the main section in position between the first-named and supplemental end frames, whereby they are located on the inside of the first-named end frames 50 of the main section, said extensible section having a leg at each end provided with a rest, one of each pair of linkage connections carrying a stop, said rest and stop being in position, when the bed sections are super-55 posed, to engage the top of the main section and space the extensible section thereabove.

10. A twin bed comprising a main section and an extensible section, the main section having spaced apart frames at each end with 60 their tops substantially at the same level, the linkage connections between the said frames at each end of the bed and pivotally connecting the sections, the extensible section having a leg at each end with a rest at its side and 65 the linkage connections carrying a stop, the

parallel linkage connections at each end and rest and the stop being adapted to engage bed and swinging therewith, upstanding bolts carried by said bar and springs connecting the bolts to the sides of the main section.

11. A folding twin-bed comprising a main 75 8. An extensible twin bed comprising a section with main end frames and longitudinal connecting bars, a supplemental frame within the main frame at each end of said section supported on said bars, an extensible section, and levers secured to the main sec- 80 tion between the frames at each end thereof and to the ends of the extensible section, one of the levers having a projecting stud and the extensible section a leg with a projecting rest, said rest and said stud engaging the top 85 of the main section at each end to hold the extensible section when folded, in elevated position above the main section.

12. The twin-bed according to claim 6, wherein the levers at each end come into con- 90 tact when the extensible section is extended and support one end thereof.

13. A bed comprising an extensible section and a main section, connections comprising links at each end to pivotally unite said sec- 95 tions, a bar at the lower ends of said links, diagonal braces connecting the ends of the bar to the links, projecting bolts carried by said bar and springs connecting said bolts to the sides of the main section.

14. A twin bed comprising a main section and an extensible section, the main section comprising a frame at each end, longitudinal bars connected to said frame, and a supplemental frame at each end supported on said bars and spaced from the adjacent main frame and linkage connections between the sections mounted to swing in the space between the main and supplemental frames.

Signed at Brooklyn, New York, this 13th day of December, 1927.

BENJAMIN B. ENGLANDER.

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