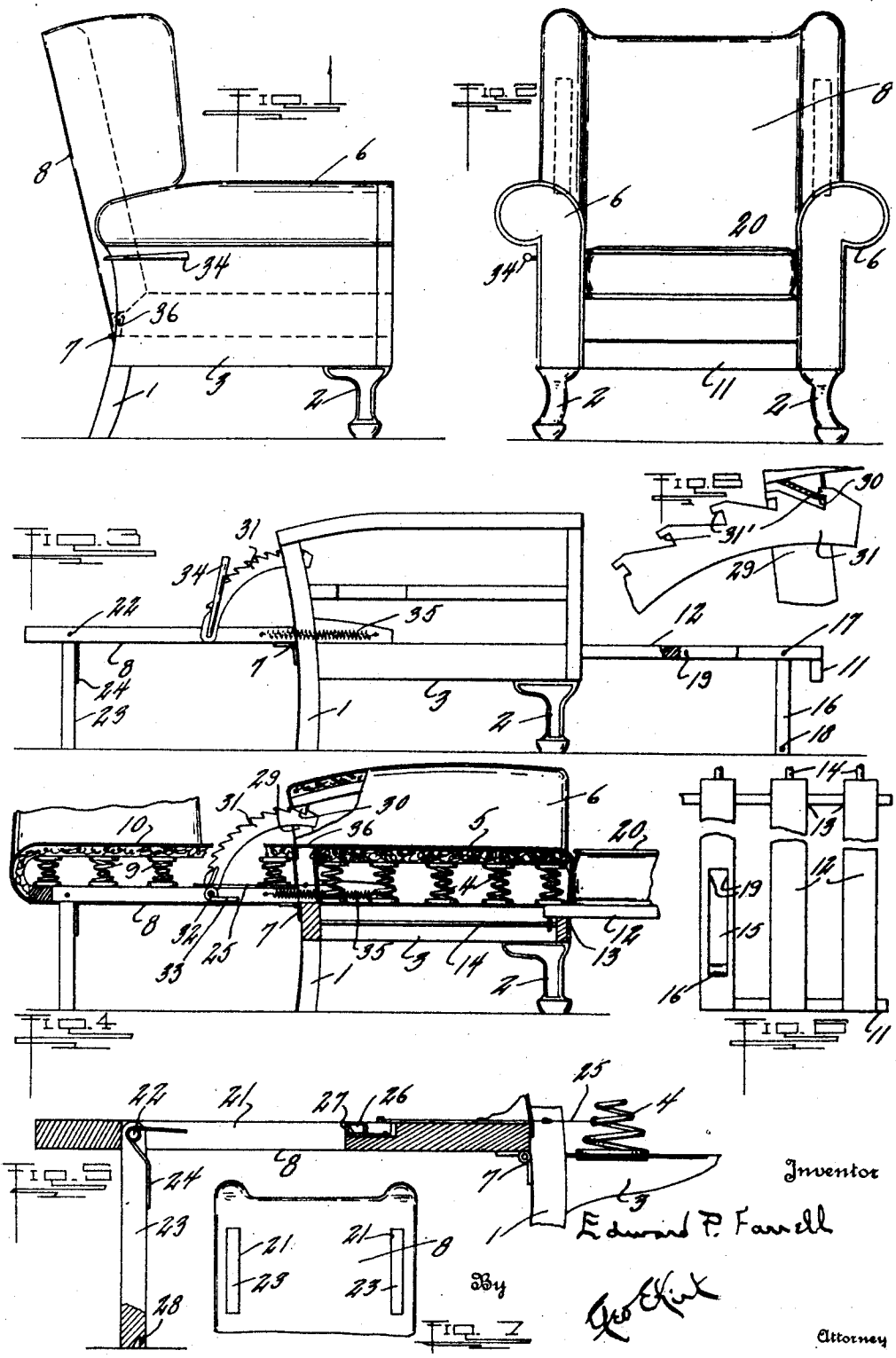
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BED CHAIR

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BED CHAIR

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This invention relates to furniture involving relatively movable portions.

This invention has utility when incorporated in chairs as reclining chairs, especially adapted for the use of convalescents.

Referring to the drawings:

Fig. 1 is a side elevation of a chair in set up or chair position, and embodying the invention herein;

Fig. 2 is a front view of the chair of Fig. 1;

Fig. 3 is a fragmentary view, in side elevation, of the chair frame of the chair of Fig. 1, showing the extended portions for bed form;

Fig. 4 is a view similar to Fig. 3, parts being broken away and with some of the upholstery associated with the structure;

Fig. 5 is a detail view of the chair back showing the leg release connections;

Fig. 6 is a fragmentary plan view of the front extension, showing the drop leg;

Fig. 7 is a fragmentary elevation of the back, showing the leg sockets; and

Fig. 8 is a fragmentary enlarged view of the back holding means.

Legs 1, 2, are shown as mounting chair base 3 having springs 4 therein which carry upholstery section 5. Upon opposite sides of this seat 3, the chair is provided with arms 6. At the rear, this chair base 3 is provided with hinges 7 mounting chair back 8 having springs 9 as upholstery carrying means for the chair back upholstery 10. The chair at its front is provided with a section 11 as a pull out for extension 12 having guides movable upon ways 14.

This extension 12 is provided with openings 15 out of which may be thrust legs 16 having pivot mounting 17. These legs 16 are provided with seats 18 for coacting with yieldable locking connections 19 in the openings 15. Accordingly a thrust downward upon the legs 16 will release this catch and allow these legs 16 to be in front sustaining position so that overstuffed upholstery 20 may be placed thereon as a foot or leg rest. To re-assemble this extension into the chair, it is only necessary to remove the upholstery 20, say by pressing back on the primary seat upholstery 5. With this secondary seat upholstery portion 20 thus clear of the extension 12, the legs 16 may be collapsed back into the openings 15, there to be retained by spring 18 as engaging the seats 19 so that the front section 11 may be thrust back into the telescopic assembly of the section 12 with the chair bottom 14. Chair back 8 has therein openings 21 near the upward termini of which are pivot pins 22 mounting legs 23 as additional back supporting means in addition to the supports 1, 2, for the chair base proper and supporting means 16 for the front extension. These back extension legs 23 are normally thrown out of the seats 21 by torsion springs 24.

In the movement of the back extension 8 toward horizontal position, flexible connection 25 from a base spring 4 engages bolt 26 in way 27 to withdraw such bolt from seat 28 in the legs 23, thereby in the shifting of the back toward horizontal position, automatically releasing these legs 23 so that as the back approaches horizontal position, these legs 23 are in back sustaining position.

In setting up of this chair back extension it is necessary to swing the legs 23 back into the springs 21. This operation occurring as the back 8 is lifted, permits the loosening of cord 25 to allow the bolts 27 to enter the seats 28.

The base spring 4 accordingly serves the two-fold purpose of operating on the seat upholstery as well as a yieldable means in the bolt control for the chair back legs.

In each of the arms 6 is passage 29 in which is disposed ledge 30 past which may extend toothed segment 31 fast with rock shaft 32 extending through the back frame 8. Torsion spring 33 about this rock shaft 32 tends normally to hold these segments 31 into engagement with the ledges 30. Operating arm 34 extending forwardly adjacent a chair arm 6 and inconspicuous therebelow, permits the one in the chair to pull down on such operating handle 34 against the resistance of the torsion spring 33 to release the toothed segments 31 from the ledges 30 so that the chair back 8, 10, may be rocked on the hinges 7 against the resistance of springs 35, one on each side of the frame 3. Thus the one in the chair may shift the back to the desired

inclination or even to full reclining position. Due to the configuration of the notches or teeth in the segments 31, it is not necessary to rock the handle 30 but merely to engage the back 8, 10, remote from the hinge 7, and lift such upward to bring the chair into the desired elevated position.

This article of furniture is accordingly one readily adaptable as an upholstered single bed or cot having especial advantages due to its desired adjustment for convalescents or obtaining the full use of the device as a chair.

It is to be noted that in the horizontal position of the back upholstery 10, it approximates the plane of the seat upholstery 5 and there is flexible fabric connection 36 therebetween as a bridge for continuity in this upholstery. The extent of this bridge 36 as herein shown is one tying these two upholstery sections 5, 10, to each other in such degree of proximity that in the set up position of the back as to the seat, the back upholstery 15 crowds into the seat upholstery 5.

The toothed segment 31 has on each tooth thereof an overhang 31′ which coacts with the ledge 30 for insuring a firm holding of the back in its adjusted position. The overhand 31′ prevents slipping of the segment as to the ledge 30 due to jars or a person in the chair suddenly leaning back against the chair back.

The invention herein may be applied to sofas, davenports and double-width chairs. The double-width chair or small sofa, has the advantage of forming a double bed in open position. A full sized bed may be had by building the invention herein into a davenport.

What is claimed and it is desired to secure by Letters Patent is:

1. An article of furniture providing a spring embodying upholstered seat portion, a spring embodying upholstered back portion hinged thereto, said back portion shiftable toward a horizontal position as to the seat portion, auxiliary supporting means for the back portion while in horizontal position, said supporting means normally nested in the back portion when the back portion is in upright position, catch means in the back portion for holding the supporting means nested, and a releasing connection from said catch to the seat spring portion.

2. An article of furniture providing an upholstered seat including springs, a section hinged thereto, said section shiftable toward a horizontal position as to the seat, auxiliary supporting means for the section while in horizontal position, said supporting means normally nested in the section when the section is away from horizontal position, catch means in the section for holding the supporting means nested, a connection from said catch to a seat spring coacting to automatically release said catch as the section approaches horizontal position, and spring means coacting with said auxiliary supporting means to throw such outward from nested position as the catch is released.

In witness whereof I affix my signature.

EDWARD P. FARRELL.