May 19, 1953 P. A. JONCAS 2,638,968

ROCKING CHAIR

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Fig 1

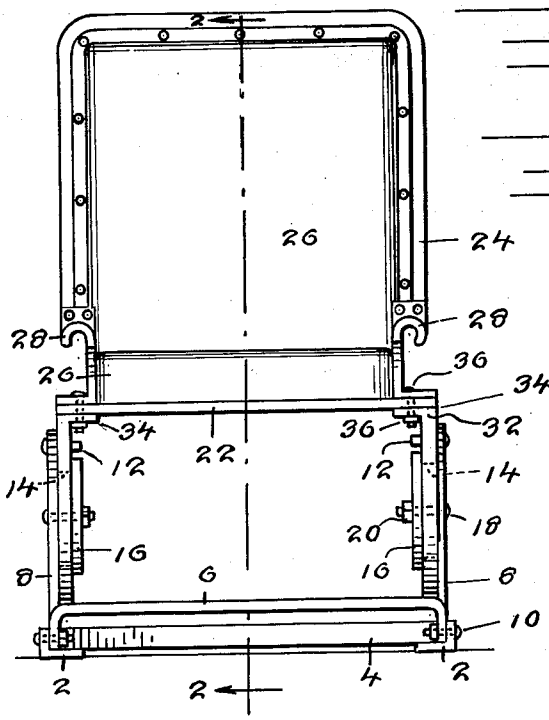


Fig 3

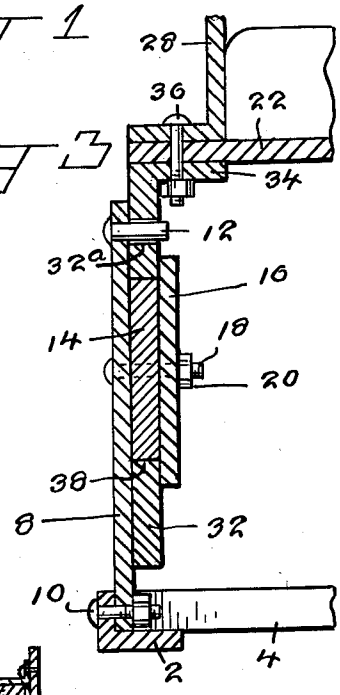
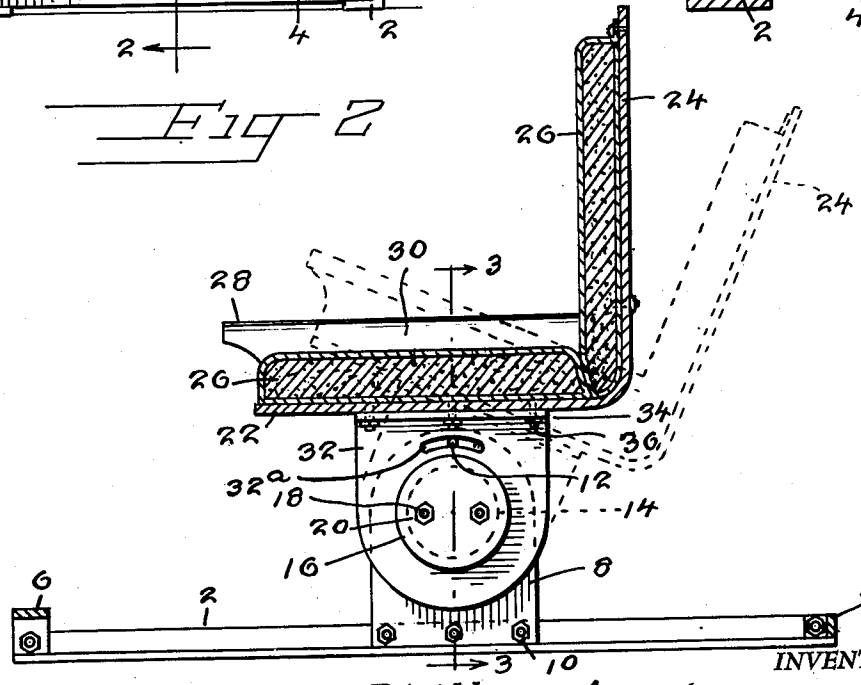


Fig 2



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Fig 4

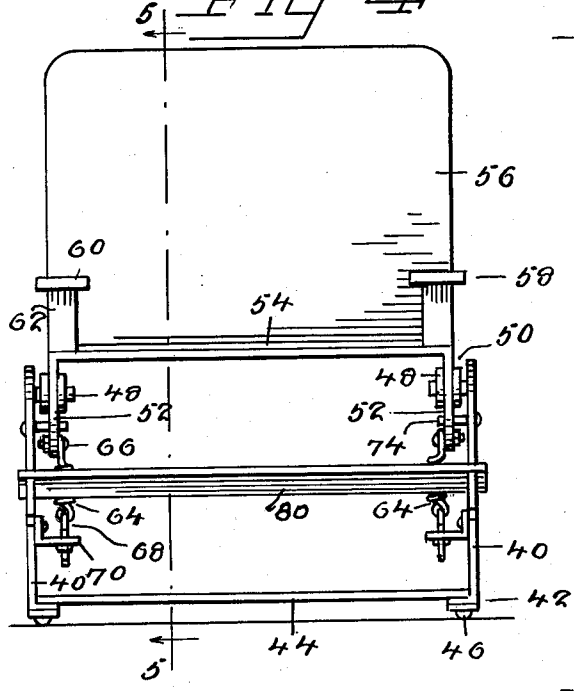


Fig 6

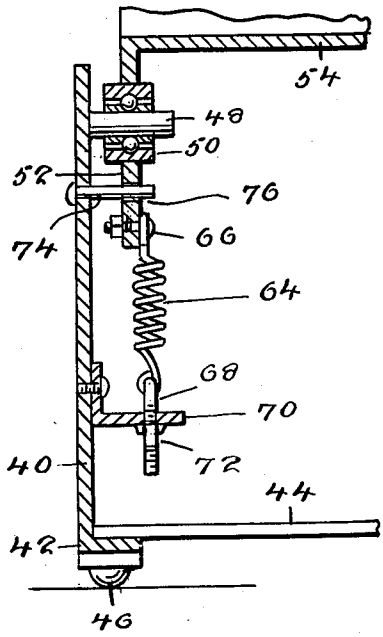
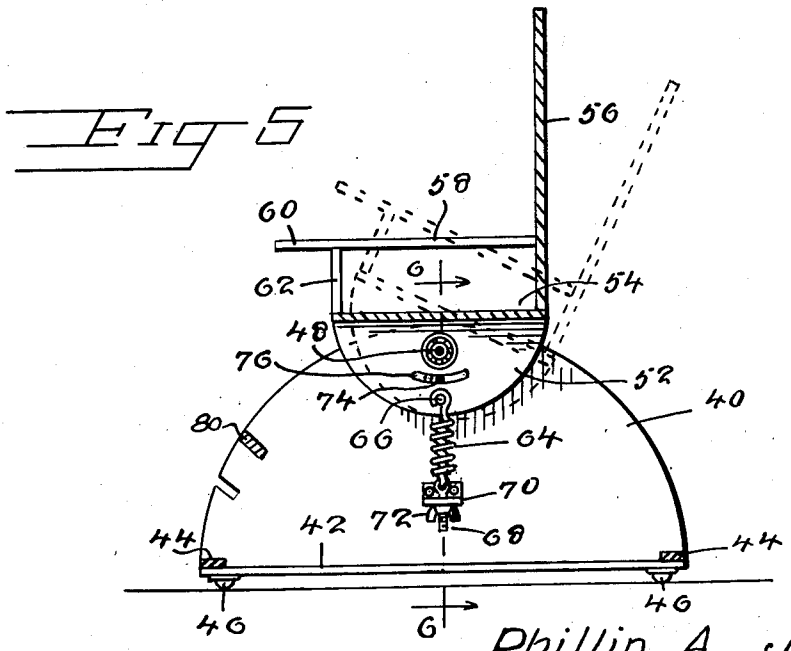


Fig 5



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UNITED STATES PATENT OFFICE

2,638,968

ROCKING CHAIR

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Application November 18, 1949, Serial No. 128,069

1 Claim. (Cl. 155—77)

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My present invention relates to an improved rocking chair of the type comprising a stationary frame to be positioned on the floor and having spaced uprights on which the chair portion is journaled. Instead however, of journaling the chair to avoid or eliminate friction or resistance, I employ either a friction plate or spring means so that physical effort is required to work the chair on the base.

This physical movement, or exercise is valuable both in children and adults and will provide a pleasant means of strengthening the muscles of the arms and legs.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention according to the best mode I have thus far devised but it will be understood that various changes and alterations may be made in the exemplified structure within the scope of the appended claim.

In the drawings:

Figure 1 is a front elevational view of the chair of my invention.

Figure 2 is a sectional view at line 2—2 of Fig. 1.

Figure 3 is a sectional view at line 3—3 of Fig. 2.

Figure 4 is a front elevational view of a modified form of chair.

Figure 5 is a sectional view at line 5—5 of Fig. 4.

Figure 6 is a sectional view at line 6—6 of Fig. 5.

Referring now to the drawings and especially to Figs. 1 through 3, I have illustrated the present embodiment of my invention as comprising the base side bars 2 connected rearwardly by cross bar 4 and forwardly by foot bar 6.

Vertical side plates 8, which are secured by bolts 10 to the side bars 2, are provided near their upper ends with inwardly extending pins 12. A circular rotor block 14 and concentric friction plate 16 are secured to the plates 8 by bolts 18 and nuts 20.

A chair comprising base 22 and back 24 and having cushions 26, is fashioned with forwardly extending arms 28 on the side members 30. The chair is supported by means of depending plates 32 bent as at 34 and secured to the chair base by bolts 36. These plates 32 are fashioned with journal openings 38 fitting snugly about the rotor blocks 14, and the friction plates 16 bear against the inside face of the depending plates 32. The bolts 18 and their nuts 20 constitute adjustable means by which the tension on the plates 32 may be regulated and controlled.

The plates 32 are provided near their upper ends with arcuate slots 32a through which the pins 12 pass. The pins 12 and the end walls of the slots 32a constitute means adapted to limit the rocking movement of the chair.

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Thus by pressing down with the arms and hands, the user may rock the chair against the frictional contact between the plate 32, blocks 14 and plate 16.

Similar exercise for the legs and feet may be had by pressing on the foot bar 6.

In Figs. 4 through 6, I have illustrated the chair in modified form including the side plates 40 bent in at 42 and connected by cross bars 44 and supported on feet 46.

Upper pins 48 form journal shafts for the ball bearing races 50 in the depending plates or panels 52 of chair seat 54 having a back 56. Arms 58 have forward extensions 60 supported by braces 62 to rock the chair on the shafts.

A pair of springs 64 are secured by bolts 66 to plates 52 and eye bolts 68 on the opposite ends of the springs are secured in angle plates or brackets 70 by wing nuts 72.

Pins 74 on the plate 40 extend through arcuate slots 76 in plates 52 and thus limit the rocking movement. A cross bar 80 extends between the forward edges of the plates 40, and the cross bar 80 may be engaged by the user's feet.

In the modified form just described the spring substitute for the friction resistance may be varied in degree by adjustment of the wing nuts.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is:

An exercising chair comprising a pair of spaced parallel vertically disposed side plates each having their lower ends extending inwardly, horizontally disposed cross bars extending between said plates and secured thereto, a pair of pins extending inwardly from the upper portion of each of said plates, a chair seat including a pair of spaced parallel vertically disposed panels arranged inwardly of said plates, a ball bearing mounted in each of said panels and receiving one of said pins, there being an arcuate slot in each of said panels receiving the other of said pins, a bracket extending inwardly from each of said plates, coil springs extending between said brackets and panels, and means for adjusting the tension of said coil springs.

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