

S. M. CHILD.
 ROTATABLE MACHINE BOARD.
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1,401,960.

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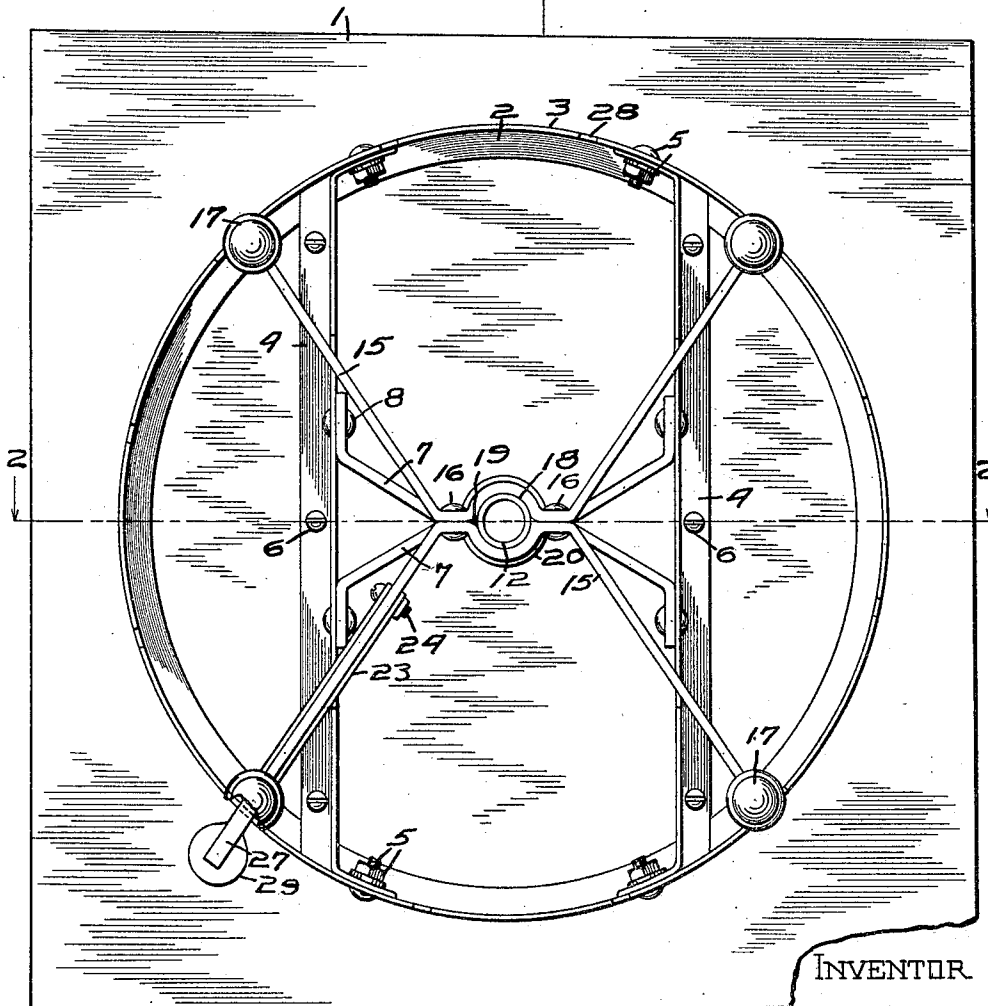
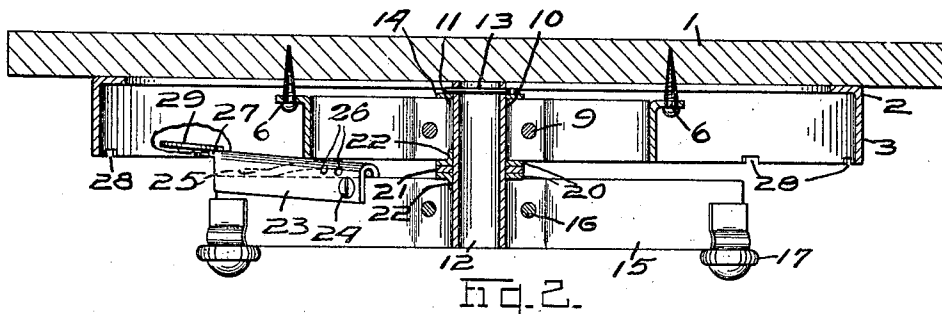


FIG. 1.

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UNITED STATES PATENT OFFICE.

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ROTATABLE MACHINE BOARD.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, STANTON M. CHILD, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have made an invention appertaining to Rotatable Machine Boards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

My invention has for its object to provide a rotatable supporting board for supporting relatively heavy machines, particularly office machines, in order that the machines may be operated from the different positions relative to surrounding objects, such as tables, book or card supporting devices, and other office furniture, that will not vibrate or wobble in the operation of the machine, and wherein provision is made for securing the machine and the board in the position to which it may be turned. The invention particularly has for its object to provide in connection with such a rotatable board a structural arrangement that can be readily formed at a low cost of production and yet will be sufficiently rigid to fully withstand the use to which such a structure will be subjected.

The invention may be contained in structures that vary in details and that will come within the scope of the invention, as set forth in the combinations of elements found in the claims appended hereto. The structure containing the invention is illustrated in the accompanying drawings and is described hereinafter.

Figure 1 of the drawings illustrates a bottom view of the rotatable board. Fig. 2 is a sectional view taken on the line 2—2 indicated in Fig. 1.

1, in the figures, is the board that may be formed of any suitable material, such as wood, on which a machine, such as a typewriter, an adding machine, or other similar machine, may be located. If desired, the machine may be secured by suitable fastening members, well known in the art, to the board. To the under side of the board is attached a circular flanged member 2. The flanged member 2 may be formed of an L-

iron bent circularly or it may be formed of a strip of metal that is turned inwardly by die-pressing, or other method, leaving the flange or skirt 3 extending downward from the under surface of the board 1. A pair of cross-bars 4 are secured to the flanged member 2 by means of the bolts and nuts 5. The cross-bars 4 may be L-bars and the webs of the L bars may be secured to the table top by the screws 6 whereby the flanged member 2, as well as the cross-bars 4, will be securely attached to the board 1. A pair of brace members 7 are secured by suitable means, such as the rivets 8, to the flanges of the cross-bars 4. The brace members 7 extend towards each other and are riveted together by the rivets 9, the ends of the brace members 7 where they connect with one or the other of the cross-bars 4 being located some distance apart and being riveted together at the central portion which forms an efficient bracing means between the central portions of the brace members and the board 1. Each of the brace members 7 at the central portion thereof is bent semi-circularly so that when the brace members are riveted together they form a substantially cylindrical shaped opening 10 between the brace members leaving small wedge-shaped spaces 11 that are necessarily formed in the bending of the brace members 7. The brace members 7 are located at a short distance from the under side of the board 1 and a tubular member 12 is located in the circular opening 10. The tubular member 12 forms a stem or bearing member of large cross-sectional area and consequently of large contact or supporting area. The board 1 and the parts attached thereto are rotatively supported by the tubular member 12. The tubular member 12 is secured in position by means of a cotter pin 13 that extends through the tubular member 12 and so as to hold the other end of the tubular member 12 against the lower side of the board 1. The ends of the cotter pin 13 rest upon a washer 14 located on the brace member 7.

A pair of members 15 are bent to form horizontally extending bars and are secured together at their central portions by the rivets 16. The ends of the substantially radially extending bars are provided with cushioned feet 17. The central portions of the members 15 are also bent semi-circularly so that when the said members are secured together by the rivets 16 they form the cylin-

drically shaped opening 18 having a diameter slightly greater than the tubular member 12 and so that the tubular member 12 may be inserted in the opening 18, the surfaces of the central portions of the members 15 forming a large bearing area for holding the board 1 in position and yet enabling rotation of the board 1. Wedge-shaped spaces 19 are also necessarily formed between the members 15 in the bending operation of the metal. A pair of metal washers 20 and a fiber washer 21 are located between the members 7 and 15, the fiber washer 21 being located between the metal washers 20. The metal washers 20 are provided with lugs 22 that may be formed integral with the washers 20 by bending the central portion of the metal from which the washers are formed in a direction at right angles to the surface of the metal. The lugs 22 are inserted in the wedge-shaped spaces 11 and 19 so as to prevent rotation of the washers when the board 1 is rotated. This causes the washers 20 to frictionally engage the fiber washer 21 and thus frictionally resist rotation of the table 1, to a small degree.

One of the substantially radially extending bars formed from the members 15 is provided with a U-bar 23 that is pivotally secured by means of the screw 24 to the bar on which it is located. The sides of the U-bar extend on opposite sides of the supporting bar whereby the U-bar is guided in its pivotal movements. A spring 25 is located within the U-bar and between the upper edge of the supporting bar and the back of the U-bar. It is secured to the U-bar by a pair of pin-points 26. It is so shaped as to press against the upper edge of the supporting bar to cause the U-bar to be raised. The back of the U-bar extends outward to form a substantially radially extending strip 27. The flange 3 of the flanged member 2 is provided with a plurality of notches 28 that may register with the strips 27 so that the flanged member 2 may be engaged by the U-bar at any one of the notches 28. The outer end of the strip 27 may be provided with a finger-piece 29 whereby the U-bar may be conveniently depressed. The table 1 may thus be rotated to any desired position together with machine supported thereon when the U-bar is depressed. The U-bar may then be released and if it does not enter a notch 28 the table, together with the machine, may be rotated a short distance so as to permit one of the nearer notches to register with the U-bar 23 and be engaged thereby.

Any suitable means or devices may be used for interconnecting the parts, such as screws, rivets, and some of the parts, if desired, may be welded together in the manner well known in the art.

I have thus provided by my invention an

efficient rotatable support having a low altitude that is durable and has large bearing areas that will prevent vibration, which is exceedingly valuable particularly when used for supporting finger operated office machines.

I claim:—

1. In a rotatable supporting board for adding machines or the like, a board, a flanged circular member secured to the board and having L cross-bars interconnecting portions of the flange and extending approximately across the circle of the flange, brace members interconnecting the L members and secured to each other, the brace members forming a cylindrically shaped opening, a tubular member extending through the said opening, a pair of members secured together and forming a cylindrical shaped opening between the said last named members for receiving the tubular member and bent to form bars extending substantially radially from the said tubular member, cushioned feet connected to ends of the said bars.

2. In a rotatable supporting board for adding machines or the like, a board, a flanged circular member secured to the board and having L cross-bars interconnecting portions of the flange and extending approximately across the circle of the flange, brace members interconnecting the L members and secured to each other, the brace members forming a cylindrically shaped opening, a tubular member extending through the said opening, a pair of members having a cylindrical opening between the said last named members for receiving the tubular member and bent to form bars extending substantially radially from the said tubular member, cushioned feet connected to ends of the said bars, the circular flanged member being provided with a plurality of notches, a spring-pressed arm having a finger-piece and pivotally supported on one of the bars, said arm being elastically moved to engage the notches of the said circularly flanged member.

3. In a rotatable supporting board for adding machines or the like, a board, a flanged circular member secured to the board and having L cross-bars interconnecting portions of the flange and extending approximately across the circle of the flange, brace members interconnecting the L-members and secured to each other, the brace members forming a cylindrically shaped opening, a tubular member extending through the said opening, a pair of members secured together and forming a cylindrical shaped opening between the said last named members for receiving the tubular member and bent to form bars extending substantially radially from the said tubular member, cushioned feet connected to ends of the said bars, a U-bar pivotally connected to one of the last named

bars, the sides of the U being located on each side of the said last named bar, a spring located within the sides of the U-bar and operating to press against the top edge of the said last named bar and secured by punch points within the top of the U-bar, the spring operating to raise the outer end of the U-bar against the flange of the circular flanged member, the back portion of the U-bar extending beyond the sides of the U to form a strip extending from the U-bar, a finger-piece located on the end of the said strip, the circular flanged member having notches for receiving the said strip to prevent rotation of the board.

4. In a rotatable supporting board for adding machines or the like, a board, a flanged circular member secured to the board and having L cross-bars interconnecting portions of the flange and extending approximately across the circle of the flange, brace members interconnecting the L-members and secured to each other, the brace members forming a cylindrically shaped opening, a tubular member extending through the said opening, a pair of members secured together and forming a cylindrical shaped opening between the said last named members for receiving the tubular member and bent to form bars extending substantially radially from the said tubular member, cushioned feet connected to ends of the said bars, a pair of metal washers located between the braces and the bar forming members and having lugs, one of the lugs located between the braces and the other lug located between the bar forming members to prevent rotation of the washers relative to the braces on the one hand and the bar forming members on the other, a fiber washer located between the metal washers.

5. In a rotatable supporting board for adding machines or the like, a board, a

flanged circular member secured to the board and having L cross-bars interconnecting portions of the flange and extending approximately across the circle of the flange, brace members interconnecting the L-members and secured to each other, the brace members forming a cylindrically shaped opening, a tubular member extending through the said opening, a pair of members secured together and forming a cylindrical shaped opening between the said last named members for receiving the tubular member and bent to form bars extending substantially radially from the said tubular member, cushioned feet connected to ends of the said bars, a U-bar pivotally connected to one of the last named bars, the sides of the U being located on each side of the said last named bar, a spring located within the sides of the U-bar and operating to press against the top edge of the said last named bar and secured by punch points within the top of the U-bar, the spring operating to raise the outer end of the U-bar against the flange of the circular flanged member, the back portion of the U-bar extending beyond the sides of the U to form a strip extending from the U-bar, a finger-piece located on the end of the said strip, the circular flanged member having notches for receiving the said strip to prevent rotation of the board, a pair of metal washers located between the braces and the bar forming members and having lugs, one of the lugs located between the braces and the other lug located between the bar forming members to prevent rotation of the washers relative to the braces on the one hand and the bar forming members on the other, a fiber washer located between the metal washers.

In testimony whereof I have hereunto signed my name to this specification.

STANTON M. CHILD.