

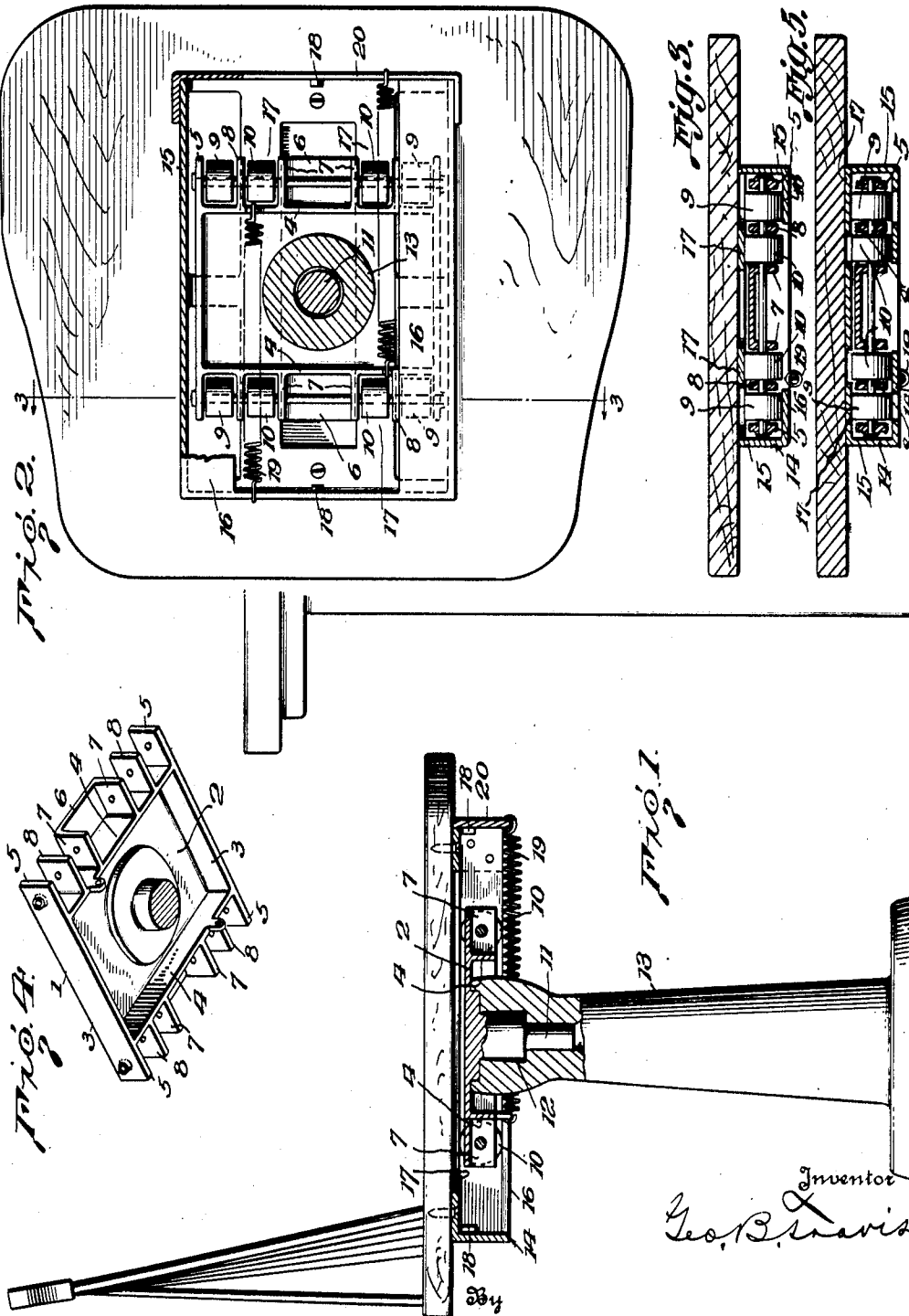
Oct. 13, 1931.

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1,827,627

ADJUSTABLE CHAIR SEAT

Filed May 29, 1930



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UNITED STATES PATENT OFFICE

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ADJUSTABLE CHAIR SEAT

Application filed May 29, 1930. Serial No. 457,049.

This invention relates to adjustable chair seats mounted upon stationary pedestals or standards, being an improvement upon invention for which Letters Patent No. 1,735,304 were granted me, and has for its primary object the provision of a device of this character that will be compact, broad and stable and which can be satisfactorily used with counters, tables, or the like (for convenience hereinafter spoken of as "counter"), and wherein the seat is characterized by means that will permit of quick and convenient adjustment thereof with respect to the counter enabling the occupant to be comfortably accommodated when eating from the counter, and whereby a person desiring to occupy the seat, or the occupant, when desiring to vacate the seat, may effect actuations or adjustments of the seat to afford maximum clearance between the seat and the counter and between the seat and another seat alongside of it for the more convenient passage of his body.

A further object of this invention is to provide a device of this character that will afford compactness and rigidity in combination with ease and smoothness of operation.

A still further object of this invention resides in the provision of a device of this character that is so shallow in relation to the horizontal dimensions of the seat proper, upon which it is mounted, that it will be practically hidden from view, thus affording comfort to the seat occupant without interfering with a decorative scheme.

A still further object of the invention is to provide a seat of this character which can be used in conjunction with counters and wherein the seat is provided with means for normally maintaining a position of adjustment thereof with respect to the counter and in alinement with positions of other seats of the same kind, thereby giving uniformity or order in the arrangement of the respective seats for an appeal to the esthetic.

A still further object of the invention is to provide an adjustable seat characterized by working parts that will be practically noiseless when in use.

A still further object is to provide a device of this character which can be used in conjunction with well-known forms of vertical seat-supporting standards or pedestals; and with adjustment and alinement devices used in connection therewith.

In the accompanying drawings,

Figure 1 is a side elevation showing my invention in longitudinal section, supported from a standard or pedestal, also showing edge of counter to indicate working relationship;

Figure 2 is a bottom plan showing parts in section;

Figure 3 is a transverse section taken substantially on line 3—3 of Figure 2;

Figure 4 is a perspective view of the supporting means for rollers.

In carrying the invention into practice, use is made of a seat mounting 1, formed of any suitable material such as cast or sheet metal, and provided with a horizontal body portion 2, having parallel side flanges 3, 3, and parallel end flanges 4, 4 depending therefrom, the side flanges extending beyond the end flanges to form four ears or projections 5. As shown in Figures 2 and 4 the body portion 2 is substantially rectangular, there being a narrower extension thereof, 6, at each end, which extension 6 has parallel side flanges 7, 7 depending therefrom. An ear or projection 8 is attached to and permanently carried by flange 4 and body portion 2 approximately midway between and parallel to projection 5 and flange 7 in each grouping of said projection and flange.

Projections 5 and 8, and flanges 7 serve as hangers for four anti-friction rollers 9, 9, 10, 10, on each end of the seat mounting. These rollers may be constructed of rubber, steel or other suitable well-known material.

Extending in a downward direction from the center of body 2 is a pin 11 which is adapted to be inserted in a recess 12 in the upper end of a pedestal 13. The pedestal is of the type adapted to be secured to a floor or platform. The pin 11 may be associated with the standard 13 in any suitable well-known manner, so that the seat proper, to which I will presently refer, can be revolved around the axis of the pedestal.

A track structure is illustrated at 14, formed of sheet or cast metal or other suitable material, in a substantially rectangular configuration. The track structure is provided with parallel spaced-apart rails 15, 15, with lower flanges 16, 16 forming surfaces for the free support of rollers 9.

One end of the track structure frame is open, the same being closed by end piece 20, the same being secured to rails 15 by suitable means.

The top horizontal section of the track structure is provided on its under side with two parallel spaced-apart tracks 17, to form surfaces over which the rollers 10 are adapted to ride. If desired, the rollers 9 and 10, likewise the track structure, may be formed of compressed fiber, so as to render the parts practically noiseless in operation. The closed end of the track structure and end piece 20 are provided with elastic bumpers 18 which are adapted to come in contact with the seat mounting so as to absorb the shocks and jars imparted to the parts and reduce the noise when the parts are thrust against one another.

Each end of the track structure is provided with a spring 19 or other yielding means which is operatively associated with the seat mounting 1 so that the seat proper is normally urged to the center. In this manner, and when a number of unoccupied seats are arranged, say, in a parallel row, alinement thereof can be effected automatically.

It is obvious that a rearrangement of the relationship of rollers and tracks would be easily possible. One method of such rearrangement is shown in Figure 5, whereby flanges 16 are extended inwardly to contact rollers 10, by providing appropriate clearance for rollers 9, in the form of voids or other suitable means, for example, corrugations, grooves, etc., and likewise tracks 17 placed in contact with rollers 9.

I claim as my invention:

1. The combination in an adjustable seat of a seat mounting having one set of four inner rollers and one set of four outer rollers rotatably mounted and suitably supported, and having a pivot pin depending from the body portion thereof, adapted to be mounted in a pedestal, and a track structure having on the under side of the top horizontal section thereof two parallel spaced-apart track surfaces upon which one set of rollers ride, and having two horizontal, parallel, spaced-apart

lower track surfaces for the free support of the other set of rollers by contact with their under side, to form a broad and stable sliding mounting for a seat upon a stationary pedestal.

2. The combination in an adjustable seat of a seat mounting having a pivot pin depending from the body portion thereof, adapted to be mounted in a pedestal, and having a suitably supported pair of axles, each axle having two inner and two outer rollers rotatably mounted thereon, and a track structure having on the under side of the top horizontal section thereof two parallel spaced-apart track surfaces upon which the inner rollers ride, and having two horizontal, parallel, spaced-apart lower track surfaces for the free support of the outer rollers by contact with their under side, to form a broad and stable sliding mounting for a seat upon a stationary pedestal.

3. The combination in an adjustable seat of a seat mounting having a pivot pin depending from the body portion thereof, adapted to be mounted in a pedestal, and having a suitably supported pair of axles, each axle having two inner and two outer rollers rotatably mounted thereon, and a track structure having on the under side of the top horizontal section thereof two parallel spaced-apart track surfaces upon which the outer rollers ride, and having two horizontal, parallel, spaced-apart lower track surfaces for the free support of the inner rollers by contact with their under side, to form a broad and stable sliding mounting for a seat upon a stationary pedestal.

4. In an adjustable seat, a seat mounting having a plurality of rollers rotatably mounted and arranged in a horizontal plane and suitably supported upon the seat mounting, and a track structure between which the seat mounting is interposed, said track structure being provided with upper and lower tracks, the upper track contacting the upper surface of certain of said rollers and lower track contacting the lower surface of the other of said rollers.

5. In an adjustable seat, a seat mounting having a plurality of rollers rotatably mounted and arranged in a horizontal plane and suitably supported upon the seat mounting, said seat mounting being provided with means for mounting it upon a stationary support, and a track structure between which the seat mounting is interposed, said track structure being provided with upper and lower tracks, the upper track contacting the upper surface of certain of said rollers and lower track contacting the lower surface of the other of said rollers.

6. In an adjustable seat, a seat mounting having a plurality of rollers rotatably mounted and arranged in a horizontal plane and suitably supported upon the seat mounting, and a pivot pin depending from said seat

mounting adapted to be mounted in a pedestal, and a track structure between which the seat mounting is interposed, said track structure being provided with upper and lower tracks, the upper track contacting the upper surface of certain of said rollers and lower track contacting the lower surface of the other of said rollers.

In testimony whereof, I have affixed my signature.

GEORGE B. TRAVIS.

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