T. R. TREIBER.

CASTER FOR PORTABLE TABLES.

APPLICATION FILED DEC. 9, 1907.

934,480.

Patented Sept. 21, 1909.

3 SHEETS—SHEET 1.

Fig 1

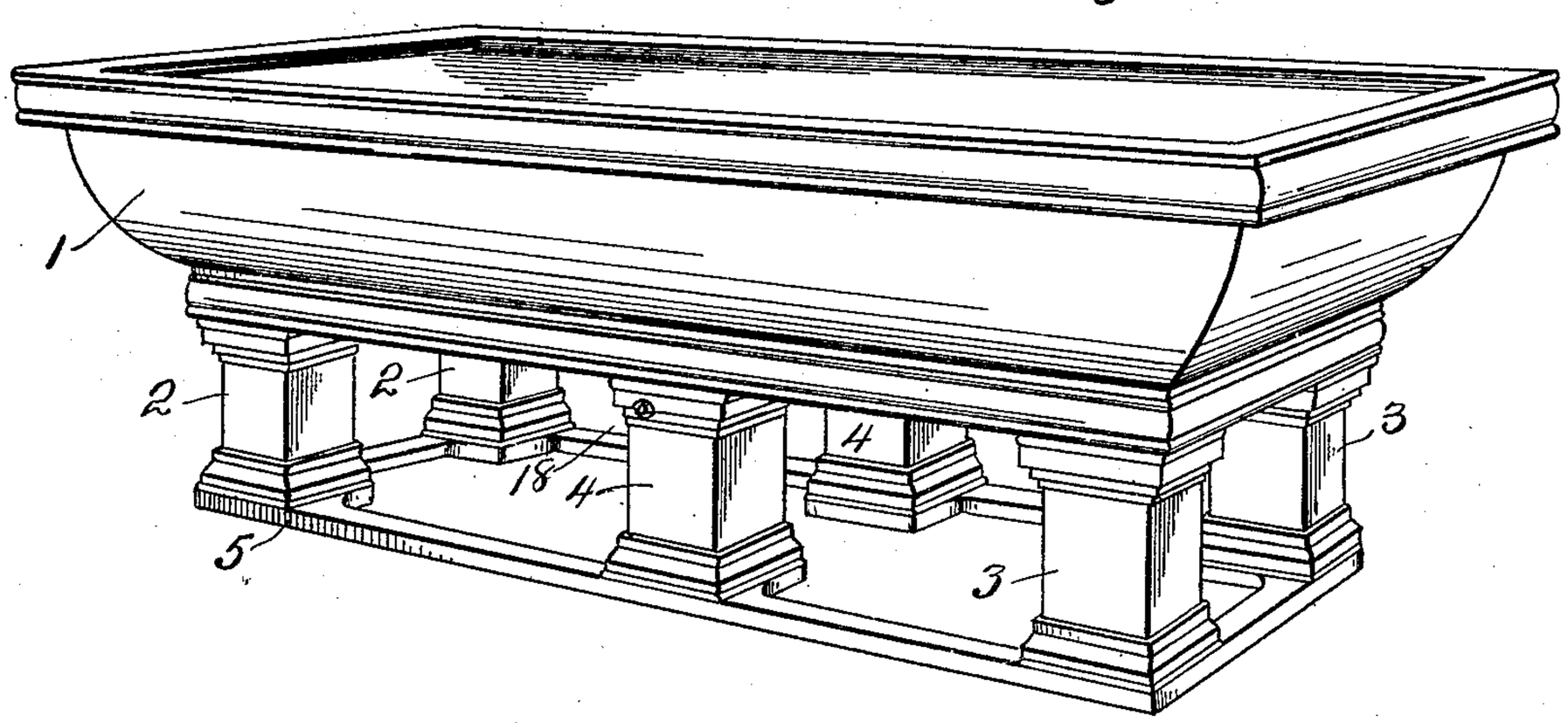

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Fig 2

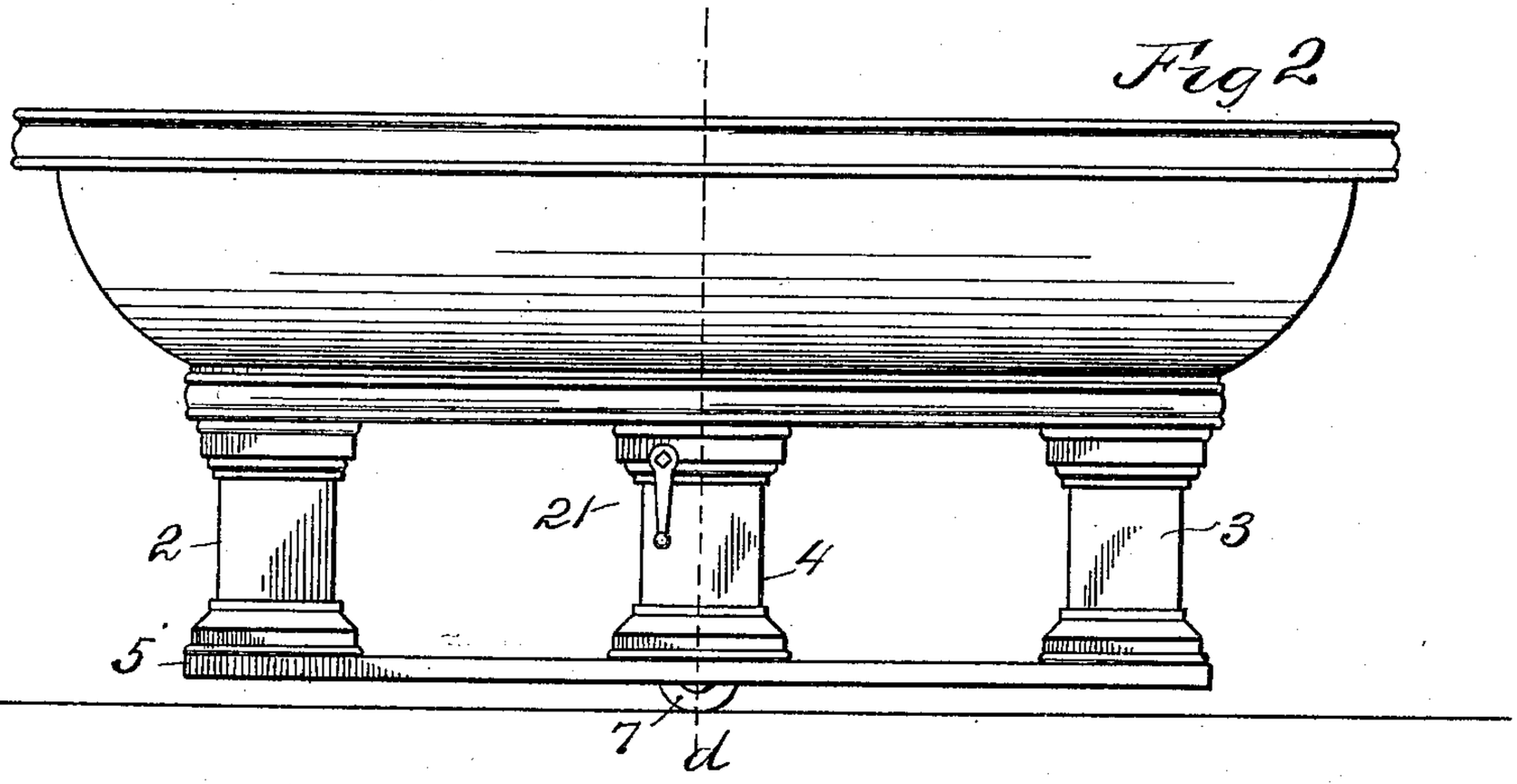
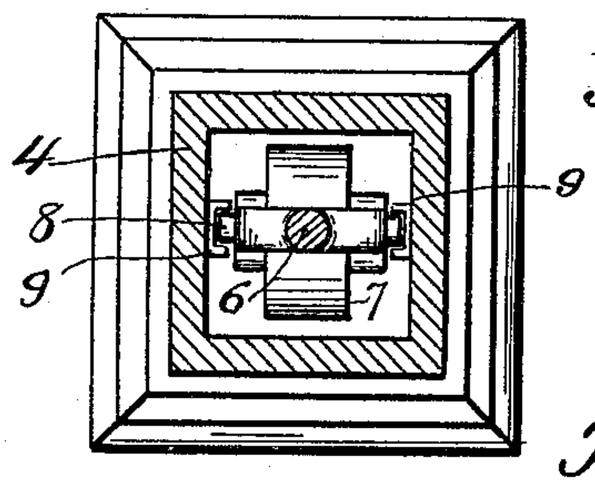


Fig 3



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E. B. House

INVENTOR.

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Fig 4

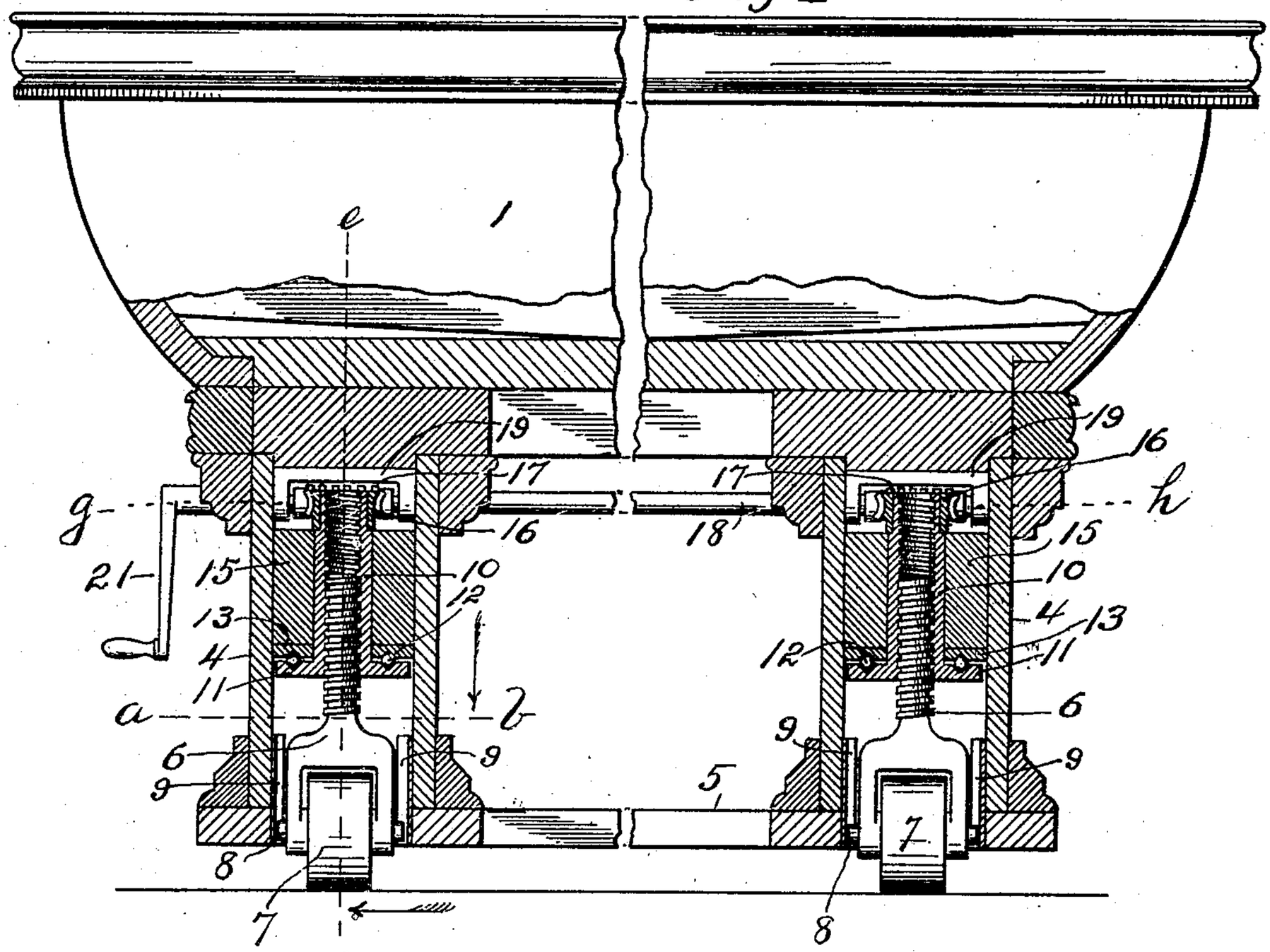


Fig 5

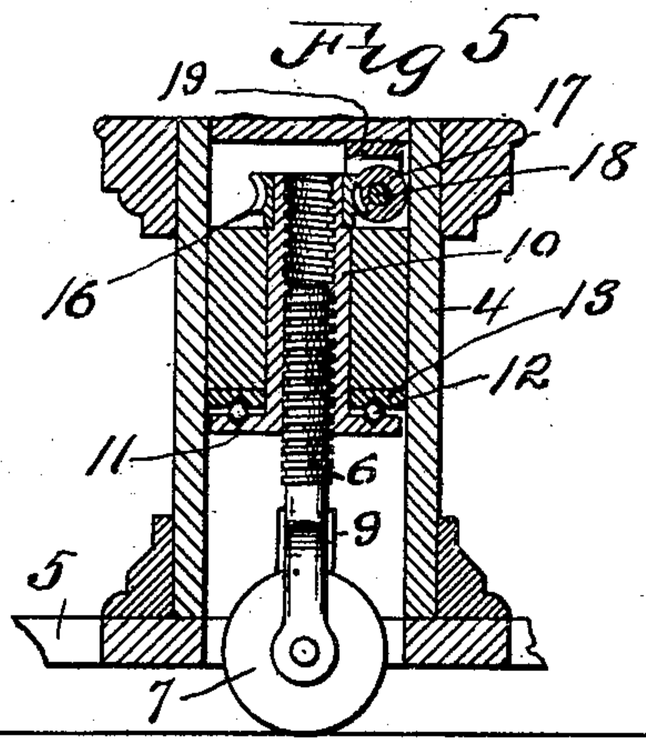


Fig 6

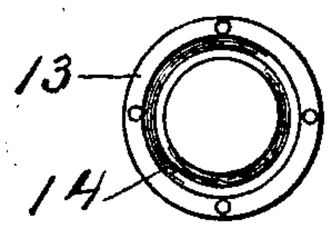
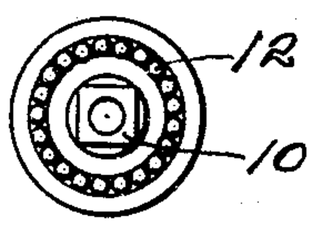


Fig 7



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3 SHEETS—SHEET 3.

Fig 8

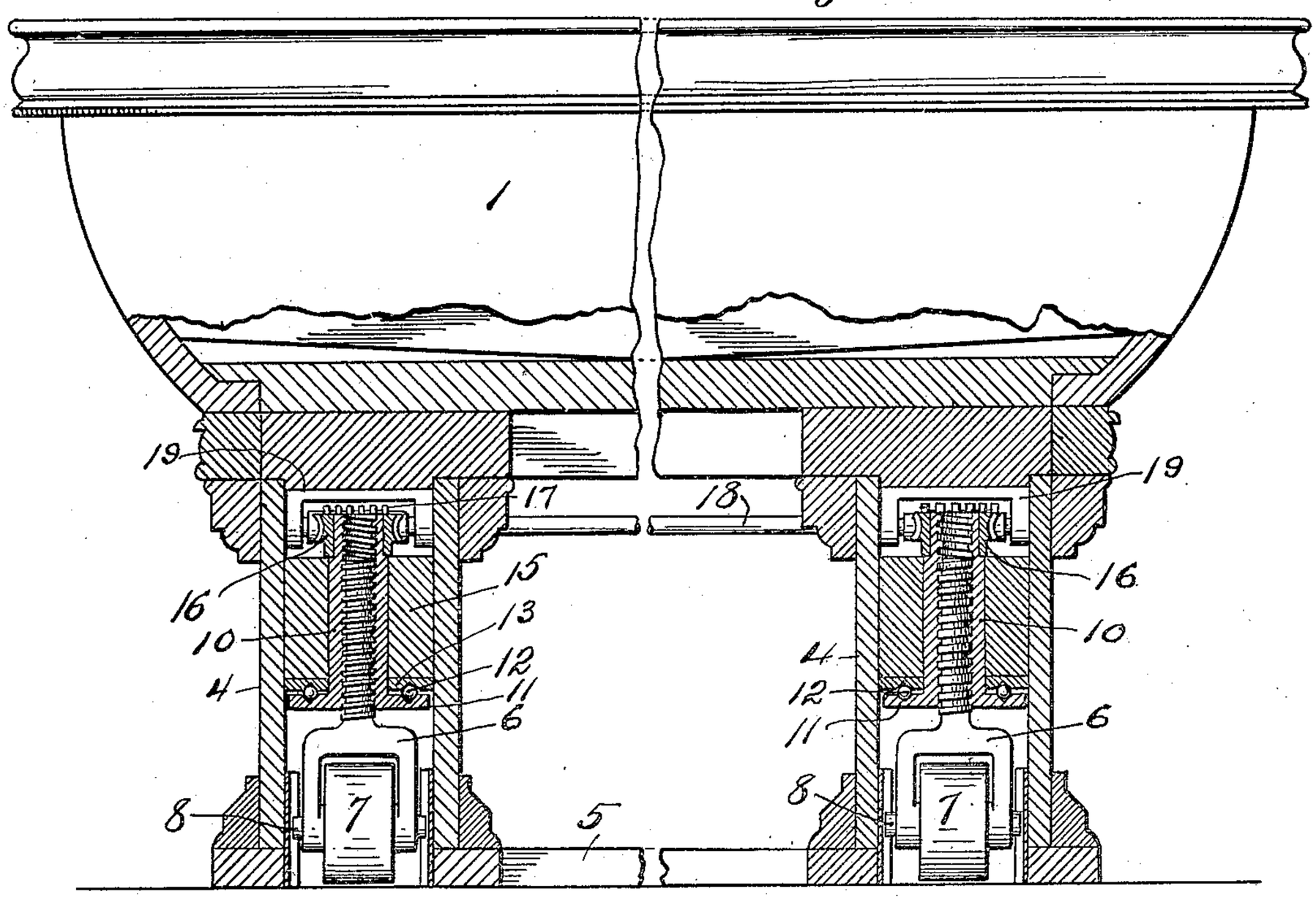
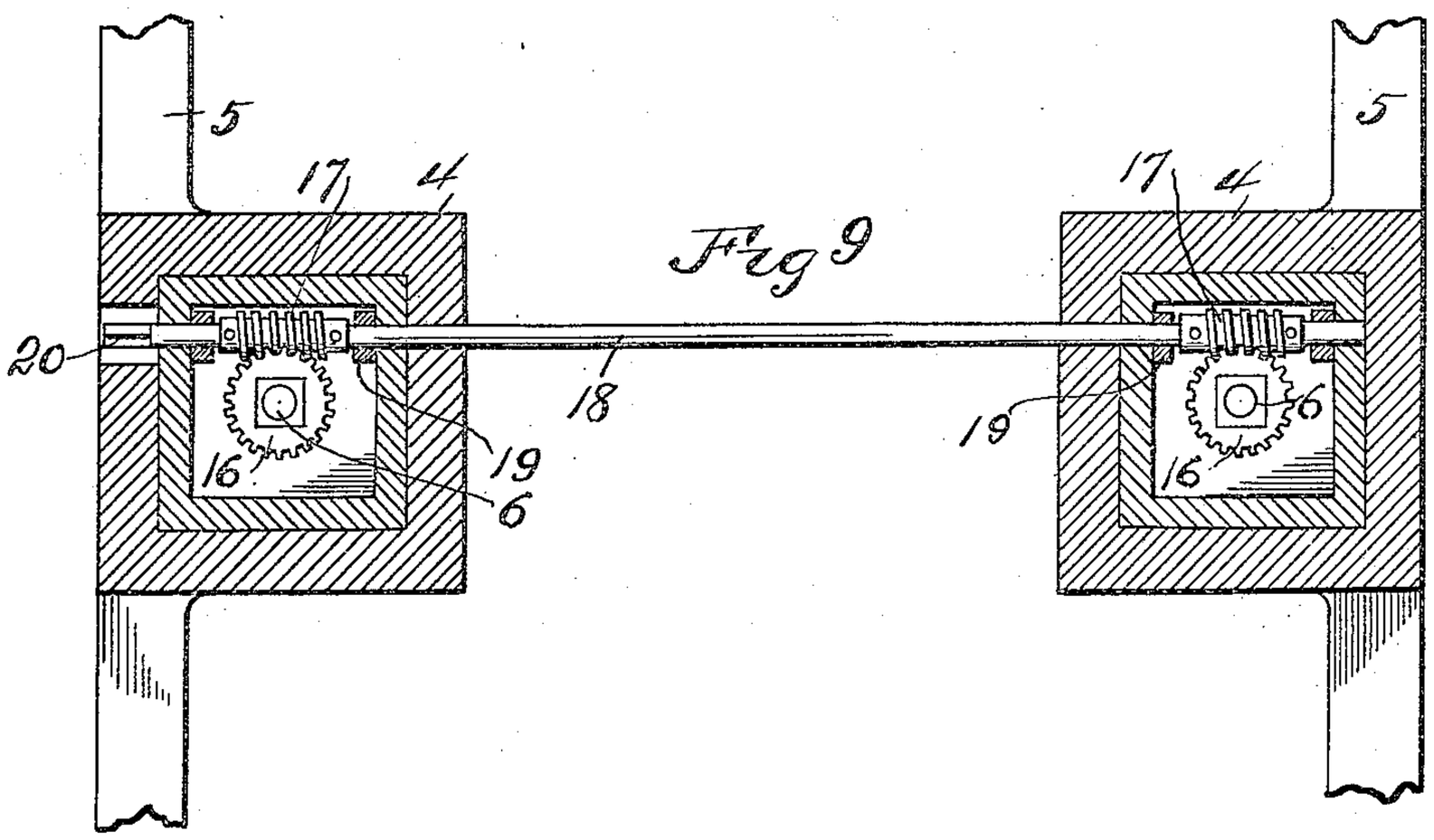


Fig 9



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ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

THEODORE R. TREIBER, OF KANSAS CITY, MISSOURI, ASSIGNOR TO THE KANSAS CITY BILLIARD TABLE MANUFACTURING COMPANY, OF KANSAS CITY, MISSOURI, A CORPORATION OF MISSOURI.

CASTER FOR PORTABLE TABLES.

934,480. Specification of Letters Patent. Patented Sept. 21, 1909.

Application filed December 9, 1907. Serial No. 405,804.

To all whom it may concern:

Be it known that I, THEODORE R. TREIBER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Casters for Portable Tables, of which the following is a specification.

My invention relates to improvements in portable tables.

The object of my invention is to provide in a billiard, pool, or other heavy table, means by which the table may be easily and quickly shifted to and from the position on the floor in which it is usually used.

In carrying my invention into effect supporting rollers are provided intermediate the two pairs of end legs of the table, means being also provided by which the body and legs may be raised and their weight shifted to the rollers, thereby enabling one person to readily move the table from one position to another.

My invention provides further, a base which connects and supports the legs of the table, excepting at such times as these parts are raised and the table is supported upon the rollers.

Other novel features of construction are hereinafter fully described and claimed.

In the accompanying drawing illustrating my invention—Figure 1 is a perspective view of a billiard table constructed in accordance with the principles of my invention. Fig. 2 is a side elevation showing the table in the raised position and supported by the rollers. Fig. 3 is a horizontal section on the dotted line *a—b* of Fig. 4. Fig. 4 is a view partly in end elevation and partly in vertical section, the section being taken in a plane corresponding to the dotted line *c—d* of Fig. 2. In this view a central portion of the apparatus is broken away, and the table is shown in the raised position. Fig. 5 is a vertical sectional view on the dotted line *e—f* of Fig. 4. Fig. 6 is an under view of one of the plates supported by the rolling bearings. Fig. 7 is a top view of one of the sleeves and series of balls mounted thereon. Fig. 8 is a view similar to Fig. 4, with the exception that the table is shown supported by means of the base, the rollers being elevated above the floor. Fig. 9 is a horizontal section through the two intermediate legs taken on a plane corresponding to the dotted line *g—h* in Fig. 4.

Similar characters of reference denote similar parts.

The billiard table is provided with the ordinary body 1 having two pairs of legs 2 and 3, disposed adjacent to opposite ends of the body. A central pair of tubular legs 4 are provided under the body intermediate the two pairs of legs 2 and 3. A horizontal rectangular base 5, connecting the legs 2, 3 and 4, is secured to the lower ends of said legs and normally supports the said legs and the body 1. In the two legs 4 are respectively mounted two vertical, screw threaded shanks 6, with reference to which the body, legs and base are vertically adjustable. Each shank 6 is bifurcated at its lower end and embraces a supporting roller 7, rotatively mounted upon a horizontal pintle 8, which extends through the two arms of the lower end of the shank. Each pintle 8 has its ends vertically slidable in vertical U-shaped guides 9, secured upon opposite inner sides of the adjacent leg 4. Two vertical screw threaded sleeves 10, are fitted to the screw threaded upper ends of the shanks 6 respectively. Each sleeve 10 is rotatively mounted upon the adjacent shank 6 and is provided at its lower end with a horizontal annular flange 11, provided in its upper side with a circular ball race in which are mounted a series of balls 12, which serve as roller bearings supporting a horizontal ring plate 13, the lower side of which is provided, as shown in Fig. 6, with a ball race 14. Each plate 13 encircles the adjacent shank 6 and supports a rectangular block 15, which also encircles the adjacent shank 6 and is rigidly secured within the adjacent leg 4.

Secured to the upper ends of and rotatable with the two sleeves 10 respectively, are two gear wheels 16 which mesh respectively with worms 17, secured upon and rotative with a horizontal, transverse, rotary shaft 18, which extends through the legs 4 and is supported adjacent to opposite ends by inverted U-shaped bearings 19, mounted one in the upper end of each leg 4. One end of the shaft 18, as indicated by 20, in Fig. 9, is squared so as to be inserted in a squared socket provided in a crank 21.

As ordinarily used, the table is supported by the base 5 which rests flat upon the floor,

as shown in Fig. 8. When the table is supported by the base 5 the rollers 7 are elevated from the floor, as shown in Fig. 8. If it is desired to temporarily remove the table from the position ordinarily occupied by it, the removable crank 21 is applied to the squared end of the shaft 18, and the said shaft is rotated by said crank in a direction such that the shanks 6, through the intermediacy of the worms 17 and sleeves 10, will be forced downward until the rollers 7 strike the floor. Continued rotation in the same direction of the shaft 18 will cause the sleeves 10 to be forced upwardly relative to the floor, thereby forcing upwardly the balls 12 and with them the plates 13, blocks 15, legs 4 and body 1. The legs 2 and 3, and base 5 will be lifted so that the base will clear the floor, as shown in Figs. 2, 4 and 5. One person may now readily move the table to any position desired. When it is desired to replace the table to its original position it is wheeled back to such position and the crank 21 is then rotated in a direction opposite to that in which it was rotated in the first instance. The reverse rotation of the crank 21 and shaft 18 will cause a rotation of the sleeves 10 in a direction such that the sleeves will move downwardly upon the shanks 6 until the base 5 strikes the floor.

If, prior to the moving of the table from its customary position the position of the base 5 is marked upon the floor, the table after its removal from this position may be readily returned to the exact place from which it was taken. Such precaution upon the part of the operator will render it unnecessary for the table to be releveled.

Various modifications of my invention within the scope of the appended claims may be made without departing from its spirit.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:—

1. In a portable table, the combination with the body of a table, of a screw threaded vertical shank, a roller pivotally mounted on said shank for supporting the same, a screw threaded sleeve rotatively fitted upon said shank, supporting means intermediate said body and said sleeve, roller bearings intermediate said supporting means and said sleeve, a rotary shaft, a worm rotative with said shaft, and a gear wheel rotative with said sleeve and meshing with said worm.

2. In a portable table, the combination with the body of a table, of two pairs of legs disposed one pair adjacent to each end of the body, two vertical screw threaded shanks disposed intermediate said two pairs of legs, supporting rollers pivoted to said shanks, screw threaded sleeves rotatively mounted on said shanks, supporting means for the body intermediate said body and said sleeves, roller bearings intermediate said sleeves and said supporting means, a rotary shaft, and means for rotating said sleeves when said shaft is rotated.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

THEODORE R. TREIBER.

Witnesses:

JOHN HOCHSTRASSER,

E. B. HOUSE.