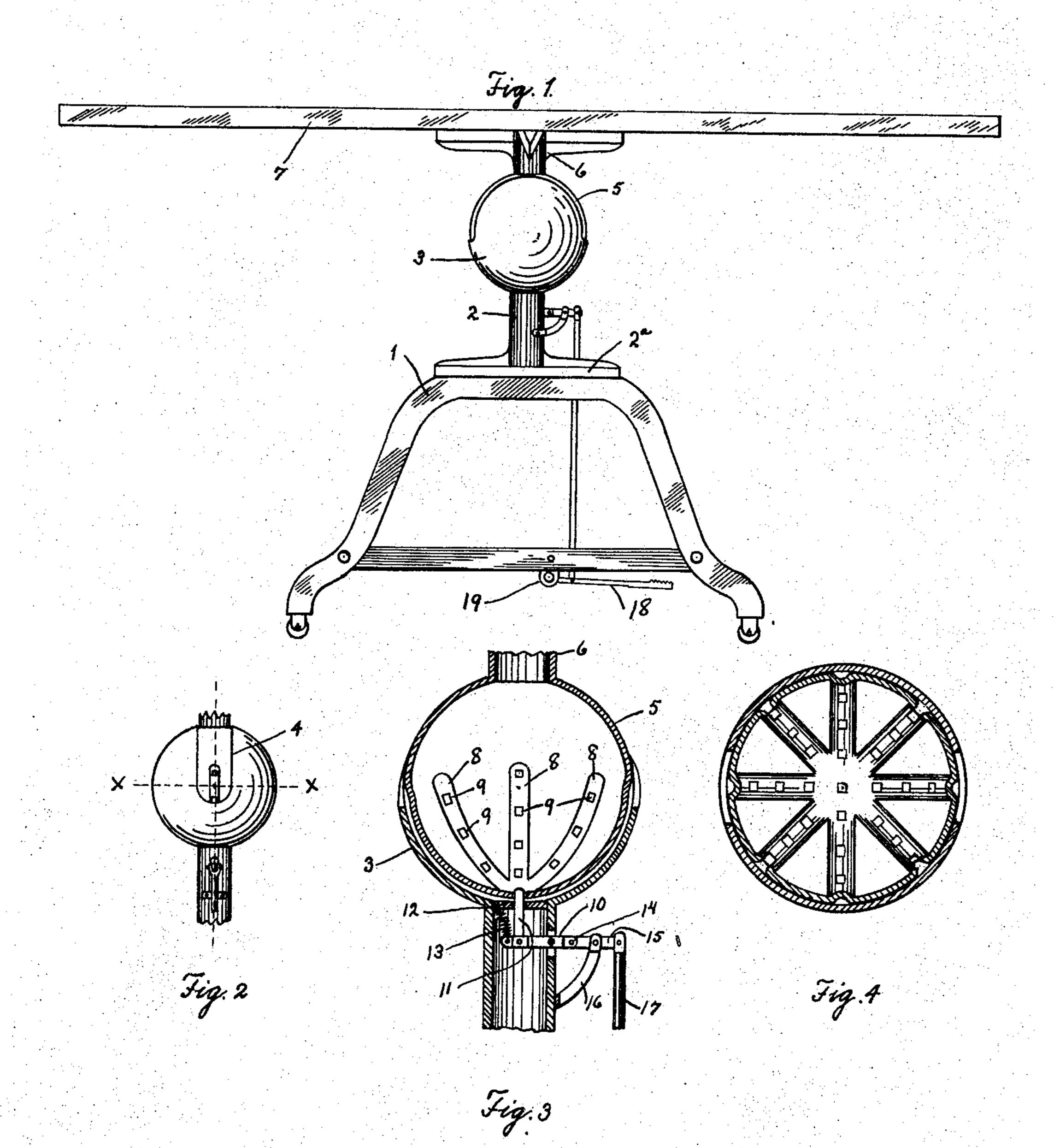
F. F. LAWRENCE. OPERATING TABLE.

APPLICATION FILED OCT. 9, 1902.

NO MODEL.



MITNESSES:

Thos. Mongan

A. L. Phillips

United States Patent Office.

FLORUS F. LAWRENCE, OF COLUMBUS, OHIO.

OPERATING-TABLE.

SPECIFICATION forming part of Letters Patent No. 765,389, dated July 19, 1904.

Application filed October 9, 1902. Serial No. 126,390. (No model.)

To all whom it may concern:

Be it known that I, Florus F. Lawrence, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Operating-Tables, of which the following is a creaification.

the following is a specification.

My invention relates to the improvement of surgeon's operating-tables; and the objects of 10 my invention are to provide a table of this class with improved means for permitting the table-top to be inclined either laterally or endwise to the desired inclination and to provide in conjunction therewith improved means for supporting said table-top securely in such inclined positions, to construct my improved operating-table and its connected parts in a simple and inexpensive manner, and to produce other improvements, the details of which 20 will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a table having my improved construction. Fig. 2 is a view in elevation of the joint which I employ between the table-top and its supporting-base, taken at right angles with that shown in Fig. 1. Fig. 3 is an enlarged central vertical section of said joint, and Fig. 4 is an enlarged transverse section taken on line x x of Fig. 2.

Similar numerals refer to similar parts

throughout the several views.

In carrying out my invention I employ a 35 suitable supporting-base, which may comprise connected oppositely-located leg-frames 1, one of which is shown in Fig. 1 of the drawings. Mounted upon the upper side of the base-frame and rigidly connected therewith 4° is the flanged base 2° of a short vertical and preferably tubular standard 2, with the upper end of which is formed a substantially ballshaped shell or hollow head 3, the latter having formed through its upper half a trans-45 verse recess 4. Within the ball-like casing 3 is mounted a hollow joint-ball 5, the latter having formed therewith an upwardly-extending bracket 6, the horizontal head of which is rigidly connected with the under side of

the central portion of a suitable oblong oper- 50

ating-table top 7.

In the construction of the joint-ball 5 I provide the lower half of the same, as indicated more clearly in Figs. 3 and 4 of the drawings, with equidistant channels or corrugations 8, which radiate, as shown, from the lower side of said ball and form stiffeningribs therefor. Within these channeled or grooved portions 8 I provide a desirable number of preferably square openings 9.

Passing through an opening in the tubular standard 2, below the ball-casing 3 and fulcrumed in said standard, is a lever-bar 10, the inner end portion of the latter having connected therewith an upwardly-projecting 65 pin or latch-finger 11, which is preferably square in cross-section and which passes loosely through an opening in a transverse guide-pin 12 within the standard 2 at its junction with the casing 3. This locking-pin 70 is normally retained in a raised position through the medium of a spring 13, which connects the inner end of the lever 10 with the under side of said plate 12. The outer end of the lever-bar 10 is pivotally connected 75 at 14 with the inner end of an outwardly-extending bar 15, which is fulcrumed in a bracket-arm 16, which extends outward and upward from the standard 2. With the outer end of the bar 15 is pivotally connected the 80 upper end of a connecting-rod 17, which extending downward has connected therewith a foot-lever 18, the inner end of which is fulcrumed on a cross-rod 19 of the base-frame.

It will be understood that when the lockingpin 11 has its upper end portion projected within the central opening 9 of the ball 5 or that opening from which the different rows of openings radiate the table-top will be locked in the horizontal position. (Indicated in Fig. 1 90 of the drawings.) It being desired to tip said table-top endwise, the foot-lever 18 may be depressed, resulting in the downward movement of the rod 17 and through the pivotal connection of the bars 15 and 10 in a downward 95 or withdrawal movement of the locking-pin 11. This being accomplished, it is obvious that said table-top may be tipped endwise,

the upper end of the locking-pin 11 projecting slightly within one of the channels 8 and being adapted when the pressure on the footlever is released to move by tension of the 5 spring 13 into engagement with the desired one of the openings 9, thus locking the jointball in connection with its casing and rigidly retaining the table-top at the desired incline. It being desired to tip the table-top laterally, 10 it will be understood that said table-top may be turned or whirled at right angles with the position shown in Fig. 1 of the drawings, the ball turning within the casing 3. This being accomplished, the lateral tipping may be ef-15 fected and the table-top locked in the new position in the manner corresponding with that prescribed for locking the same when tipped endwise. It is obvious that the grooves or

channels 8 will serve to guide the end of the locking-pin over the line of openings 9 and that owing to a plurality of these openings being employed the table-top may be tipped and locked at different angles or inclinations. It will also be observed that the means which I employ for accomplishing the adjustment of said table-top and locking the same are

simple and effective and that the parts employed in my construction are such as to permit of their being produced at a reasonable cost of manufacture.

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

1. A table comprising a base, a hollow

spherical bearing carried by the base and provided in its upper portion with a slot, a joint-ball fitted within the bearing with its lower portion radially grooved and said grooves provided at intervals with recesses, a bracket carried by the ball and working within the 40 slot of the bearing, a table-top carried by the bracket, a locking-pin projecting through the bearing with its inner end working in one of the grooves of the joint-ball to engage the recesses thereof and adjustably lock the ball, 45 and means to actuate the pin.

2. A table comprising a base, a hollow spherical bearing carried by the base and provided in its upper portion with a slot, a jointball fitted within the bearing with its lower 50 portion radially grooved and said grooves provided at intervals with recesses, a bracket carried by the ball and working in the slot, a table-top carried by the bracket, a lockingpin projecting through the bearing with its 55 inner end working in one of the grooves of the joint-ball to engage the recesses thereof and adjustably lock the ball, a bracket carried by the base, a lever fulcrumed upon the base and pivoted to the locking-pin, an arm 60 fulcrumed upon the bracket and pivoted to the lever and an operating-rod hung from the said arm.

FLORUS F. LAWRENCE.

In presence of—
A. L. Phelps,
W. L. Morrow.