

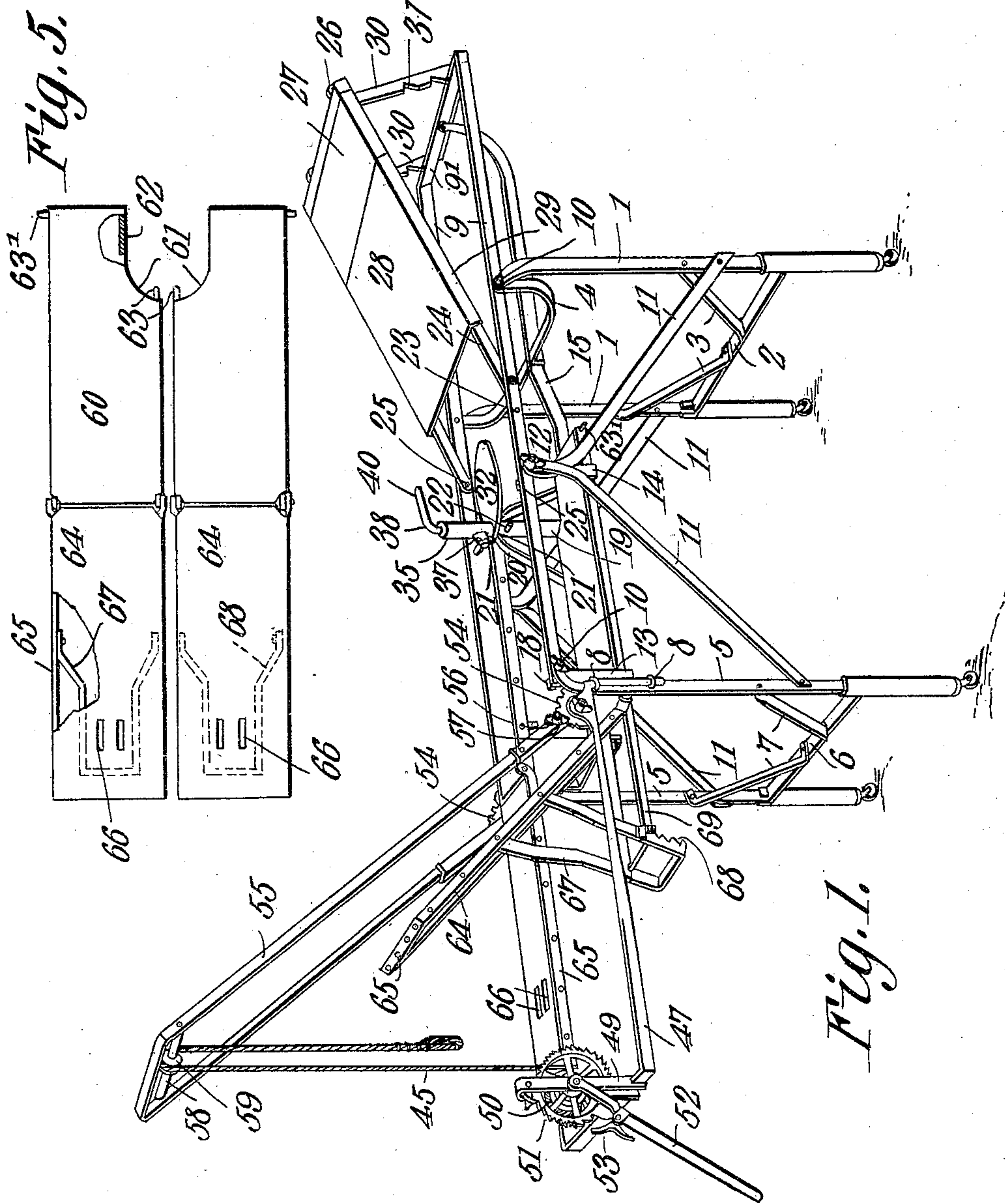
No. 861,272.

PATENTED JULY 30, 1907.

J. H. DOWNEY.
OPERATING TABLE.

APPLICATION FILED DEC. 4, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

E. J. Howard

C. Bradway

James H. Downey,
INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

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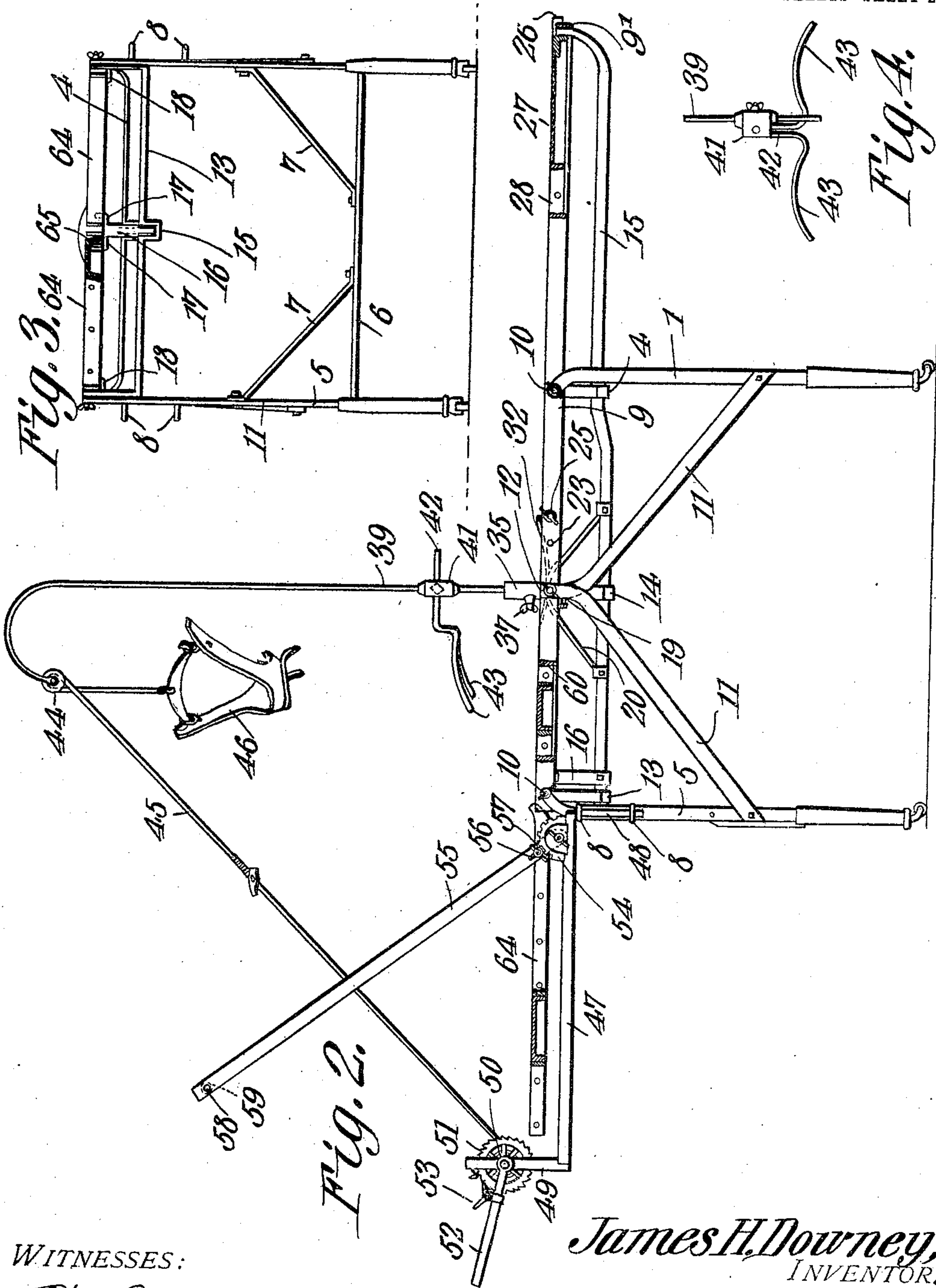
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WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES HENRY DOWNEY, OF GAINESVILLE, GEORGIA.

OPERATING-TABLE.

No. 861,272.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed December 4, 1906. Serial No. 346,290.

To all whom it may concern:

Be it known that I, JAMES HENRY DOWNEY, a citizen of the United States, residing at Gainesville, in the county of Hall and State of Georgia, have invented a new and useful Operating-Table, of which the following is a specification.

This invention has relation to operating tables and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

10 The object of the invention is to provide a table with adjustable or movable parts which may be so arranged with relation to each other as to receive and retain the body of a patient while members of the body are being stretched or drawn.

15 The number of positions of the various parts are so numerous that the table hereinafter shown and described is capable of being adjusted so as to be suitable for a great variety of operations of the character above indicated. At the same time the parts are compact and when not in use may be readily moved out of the way.

Figure 1 is a perspective view of the table. Fig. 2 is a side elevation of the table with parts in section. Fig. 3 is an end elevation of the table with parts in section and parts removed. Fig. 4 is a detail side elevation of a thigh clamp upon the table, and Fig. 5 is a top plan view with parts broken away of leg pallets used upon the table.

The table consists of the head end uprights 1, 1 which are joined together near their lower ends by the cross-rail 2, the braces 3, 3 being interposed between the uprights 1, 1 and the said cross rail 2. The upper ends of said uprights 1 are connected together by means of the U-shaped cross-piece 4. The foot end uprights 5, 5 are located in alinement with the head end uprights 1, 1. The said uprights 5, 5 are connected together near their lower ends by the cross-rail 6 and the braces 7, 7 are interposed between the cross rail 6 and the uprights 5, 5. The uprights 5, 5 are provided near their upper ends with the eyes 8, 8. The side rails 9, 9 are pivotally secured to the upper ends of the uprights 1, 1 and 5, 5, the screw and thumb taps 10, 10 being provided at the pivotal points of the side rails in order that the said rails may be secured at a desired angle to the uprights 1, 1 and 5, 5. The side braces 11, 11 are pivoted at their lower ends, one set of braces to the uprights 1, 1 and the other set of braces to the uprights 5, 5. The upper ends of the said braces are pivotally secured to the side rails 9, 9 the set of braces extending from the uprights 1, 1 meeting the upper ends of the braces 11 extending from the uprights 5, 5, the screw and thumb tap 12 being used as a means for securing the upper ends of the braces 11, 11 to the said side rails 9, 9.

The upper ends of the uprights 5, 5 are connected

together by the U-shaped cross-piece 13 and the upper ends of the braces 11, 11 are secured together by the U-shaped cross-piece 14 which is of the same dimensions and configuration as the cross piece 13. The intermediate portions of the said U-shaped cross-pieces 13 and 14 lie in the same horizontal plane while the intermediate portion of the cross-piece 4 is in a relatively higher horizontal plane. The center rail 15 is attached at one end to the cross-piece 13 and at intermediate points to the cross pieces 14 and 4 and at its other end to the cross-piece 9' which is located at the ends of the side rails 9, 9. The said center rail maintains the said cross-pieces in proper position with relation to each other.

The post 16 is erected upon the center rail 15 near the end thereof that connects with the cross-piece 13. Said post is provided at its upper end with the laterally extending lugs 17, 17. The lugs 18, 18 are in horizontal alinement with the lugs 17 and are attached to the ends of the said rails 9 that lay opposite the post 16. The post 19 is erected upon the center rail 15 at the point where the rail connects with the cross-piece 14. The brace 20 is attached at its ends to the center rail 15 and its intermediate portion is elevated and is provided with a horizontal section 21 which is perforated to receive the upper end of the post 19. The said post 19 is provided with the laterally extending lugs 22, 22. The perforations 23, 23 are located in said rails 9, 9 at points intermediate the ends thereof.

The back rest consists of the U-shaped member 24 which is pivoted at the points 25, 25 to the side rails 9, 9. The intermediate portion of the back rest 24 is provided with the lugs 26, 26 which, when the said back is laying in horizontal position, engages the cross-bar 9' which connects the extended ends of the side rails 9, 9 together. The back piece 24 is provided at its end with the relatively fixed head rest 27. The back rest section 28 is provided with the curled edges 29 which receive the side portions of the back rest frame 24. The said back rest section 28 is adapted to slide along the side portions of the frame 24 and may be moved over the head rest 27. The arms 30 are pivoted at their ends to the intermediate portion of the back rest frame 24. Said arms are provided in their sides with the notches 31 which are adapted to receive the edge of the cross-piece 9' when the end of the back rest frame 24 is swung up. Thus the said arms 30 serve as props for supporting the back rest frame in such swung up position.

The seat support 32 rests upon the post 19 and the socket 35 is located over the seat support 32 and is provided with a set screw 37. The set screw 37 passes laterally through the side of the socket 35. Said socket is adapted to receive a pelvis clamp 38 or the end of a crook member 39, the said screw 37 retaining such attachments within the socket. The pelvis clamp 38 is

provided with the horizontal portion 40 which is adapted to be passed over the thigh of a patient during certain operations and clamp the part in position on the seat rest 32. The crook member 39 is provided with the vertically adjustable sleeve 41 to which is attached the laterally adjustable thigh brace 42. Said brace 42 is provided with the curved members 43 which are adapted to be passed over the thighs during certain operations and brace the patient in position upon the table.

The upper end of the crook member 39 is provided with a pulley wheel 44. The cord 45 passes over the said wheel and is provided at one end with the head or neck clamp 46. Means is provided for operating the cord 45 which will be hereinafter explained. The head or neck clamp 46 is adapted to receive the head of the patient and is used when it is desired that the spinal column of the patient be elongated, the thigh brace 42 retaining the pelvis of the patient while the head clamp 46 is being elevated. The shelf member 47 is adapted to be attached or detached from the uprights 5, 5. Said shelf member is provided with the downwardly extending ends 48, 48 which are adapted to enter the eyes 8, 8. The said shelf member 47 is substantially U-shaped in horizontal plan. The frame 49 is adapted to be adjustably secured to the intermediate portion of the said shelf member 47. The winding drum 50 is journaled in the frame 49. The ratchet wheel 51 is attached to said drum, the ratchet lever 52 is fulcrumed to the frame 49 and is provided with the pawl 53 which is adapted to engage the ratchet wheel 51. The end of the cord 45 is adapted to wind upon the drum 50. The ends of the shelf member 47 are provided with the gear segments 54. The ends of the derrick member 55 are pivotally secured to the gear segments 54. The ends of the said member 55 are provided with the clamps 56 which are adapted to be secured by the thumb tap and bolt 57 in the gear of the segments 54. Thus when the member 55 is inclined, it may be secured at such inclination by means of the clamps 56 operated by the thumb screw and tap 57. The cross rod 58 is located between the sides of the members 55 and is spaced from the intermediate portion thereof. The pulley 59 is loosely journaled upon the cross rod 58 and is free to move from one end of said rod to the other. For certain operations, it is necessary and desirable that the cord 45 pass over the pulley 59 and it is also necessary in some instances that the said pulley may be shifted laterally upon the rod 58 and that the frame 49 be correspondingly shifted upon the shelf member 47.

A pair of leg pallets is provided to be used in connection with the table. With the exception of being rights and lefts such pallets are of the same construction and a description of one will answer for both. Each pallet consists of an upper leg member 60 which is cut away at one corner as at 61 in order to receive the end of the seat rest 32. The flange 62 extends around the edge of the said member 60. The lugs 63, 63 located in the cut away corner 61 are adapted to rest upon the lugs 22 while the lugs 63', at the opposite side of the member 60 are adapted to enter the perforations 23.

That is, when the leg pallets are at the same level as the seat rest 32. When it is desired that the said pallets be lower than the seat rest 32, the edges of the flanges 62 rest upon the cross-pieces 13 and 14 or 14 and 4. When resting upon the cross-pieces 13 and 14, the member 60 will be horizontal and while resting upon the cross-pieces 14 and 4, the member 60 will be inclined. The lower leg member 64 is hinged to the upper leg member 60 and is provided on three sides with the flange 65. The member 64 is provided with the apertures 66 through which straps (not shown) may be passed for the purpose of securing the patient to the pallet.

The U-shaped crop 67 is hinged to the flange 65 of the lower leg member 64. Said prop is provided in its edge with a number of recesses 68. The prop support 69 slides longitudinally within the flange 62 of the member 60 and is adapted to enter at its end the notches 68 of the prop 67. Thus the lower leg member 64 may be pitched at any desired angle with relation to the upper leg member 60 and secured by means of the prop 67 and the prop support 69 in such position.

It is obvious that the table and its parts may be adjusted and located in numerous and various positions. As the arrangement of parts for different uses and different operations are so numerous and as the adjustment of the parts for specific purposes are apparent it is unnecessary that the numerous different adjustments be described herein.

Having described my invention what I claim as new and desire to secure by Letters-Patents is:—

1. A table such as described, a derrick member attached thereto, a pulley journaled on said derrick member and adapted to slide transversely thereof, a winding drum located on the table and adapted to slide transversely thereof and a cord passing around said drum and over said pulley.

2. A table such as described, a crook member attached thereto, thigh clamps attached to the crook member, a head clamp depending from the crook member, a drum located upon the table and a cord passing around said drum and over the end of the crook member and supporting said head clamp.

3. A table such as described, a crook member supported thereby, a vertically and laterally adjustable thigh clamp attached to the crook member, a head clamp depending from the crook member and a means for raising and lowering said clamp.

4. A table such as described, a crook member attached thereto, a thigh clamp located upon the crook member, a head clamp depending from said crook member and means for raising or lowering said head clamp.

5. A table such as described, a socketed post located upon the table, a clamp fitting in the socket of said post, means for holding said clamp in an adjusted position in said socket a drum mounted upon the table, a cord passing around said drum and a clamp attached to said cord.

6. A table such as described comprising a frame, a socketed post mounted upon the frame, a clamping member attached to said post, a derrick member located upon the table, a pulley journaled to said derrick, a drum mounted upon the table, a cord passing around said drum and over said pulley and a clamp attached to said cord.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES HENRY DOWNEY.

Witnesses:

J. O'H. WALPOLE,
W. B. LAWSON.