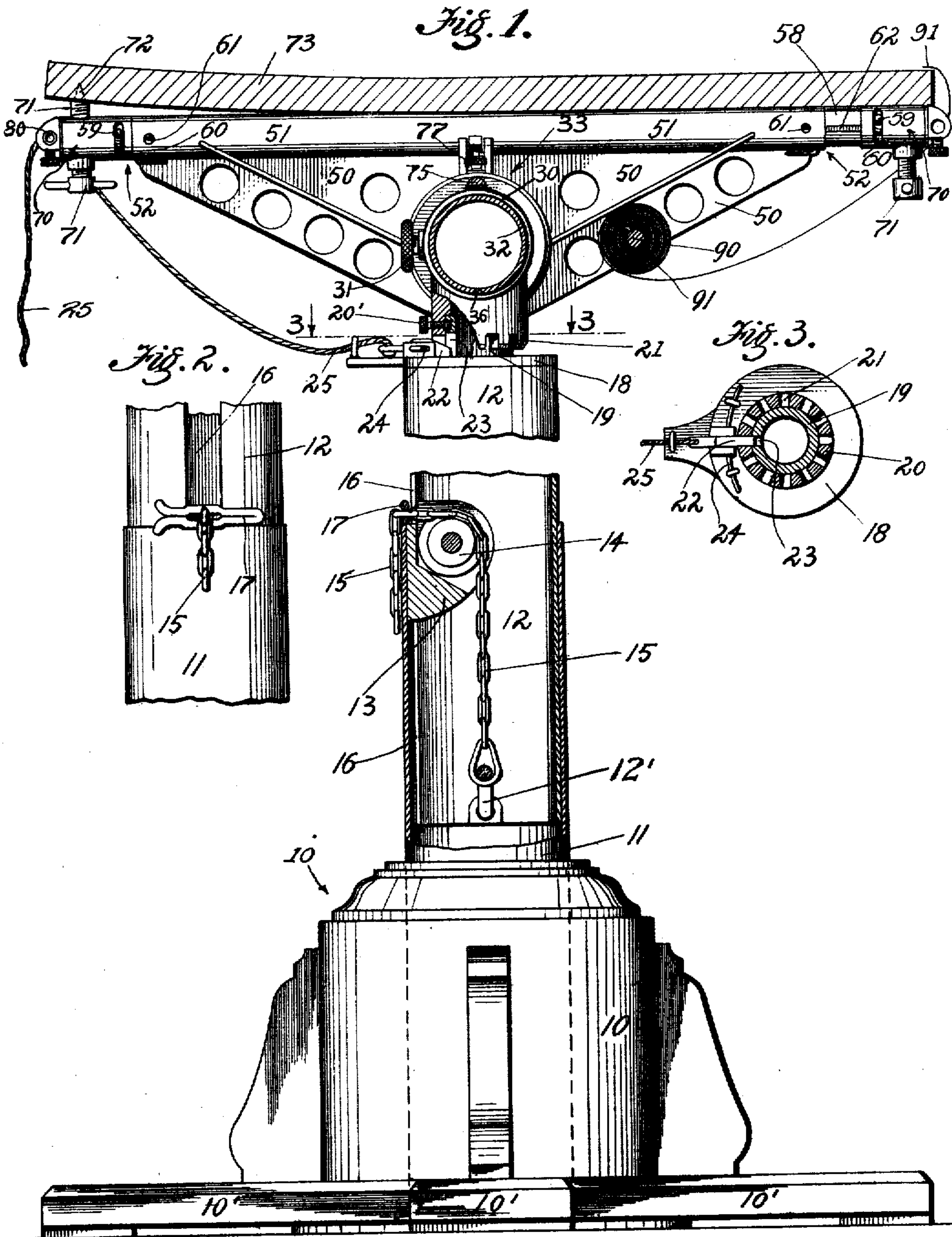


N. W. DEXTER.
DRAFTING TABLE SUPPORT.
APPLICATION FILED JUNE 17, 1908.

915,418.

Patented Mar. 16, 1909.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 4.

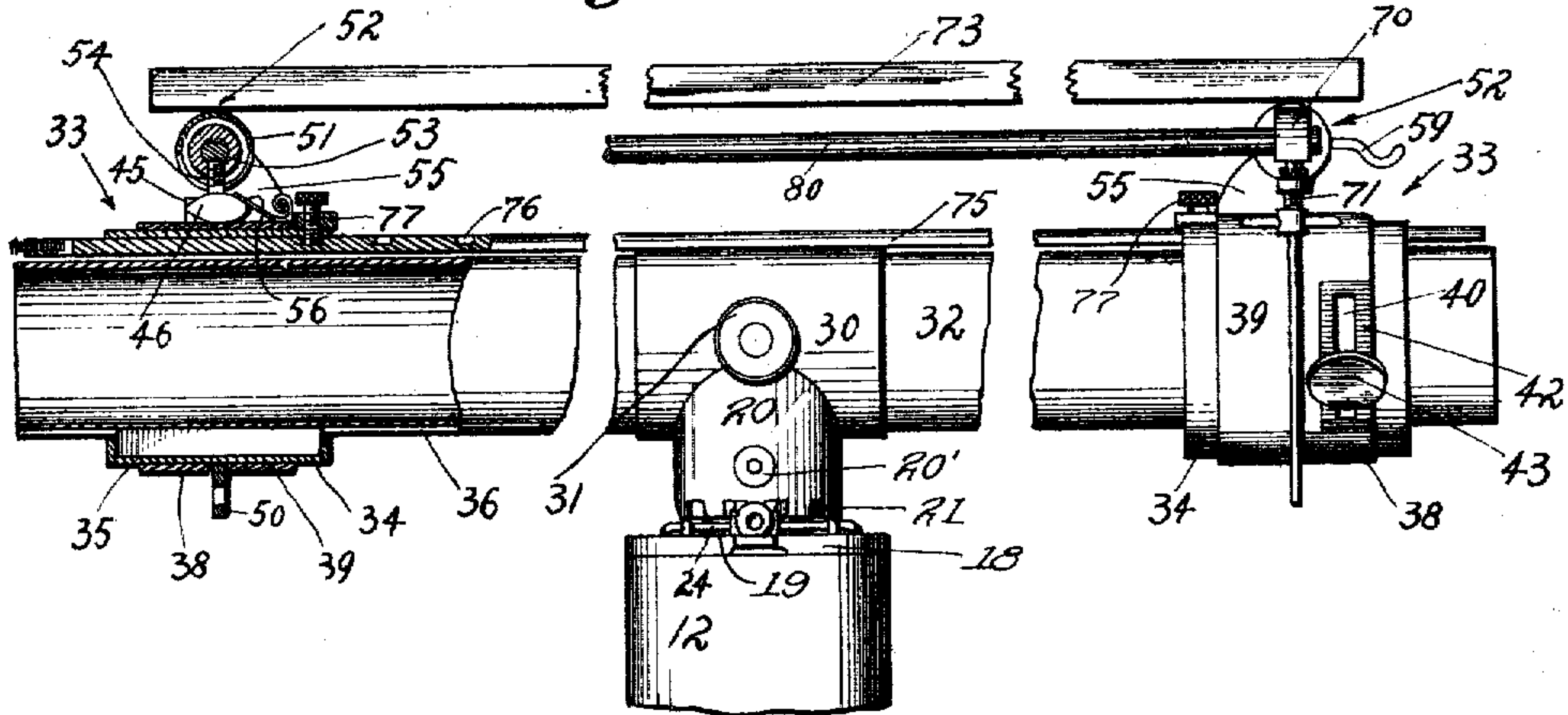


Fig. 5.

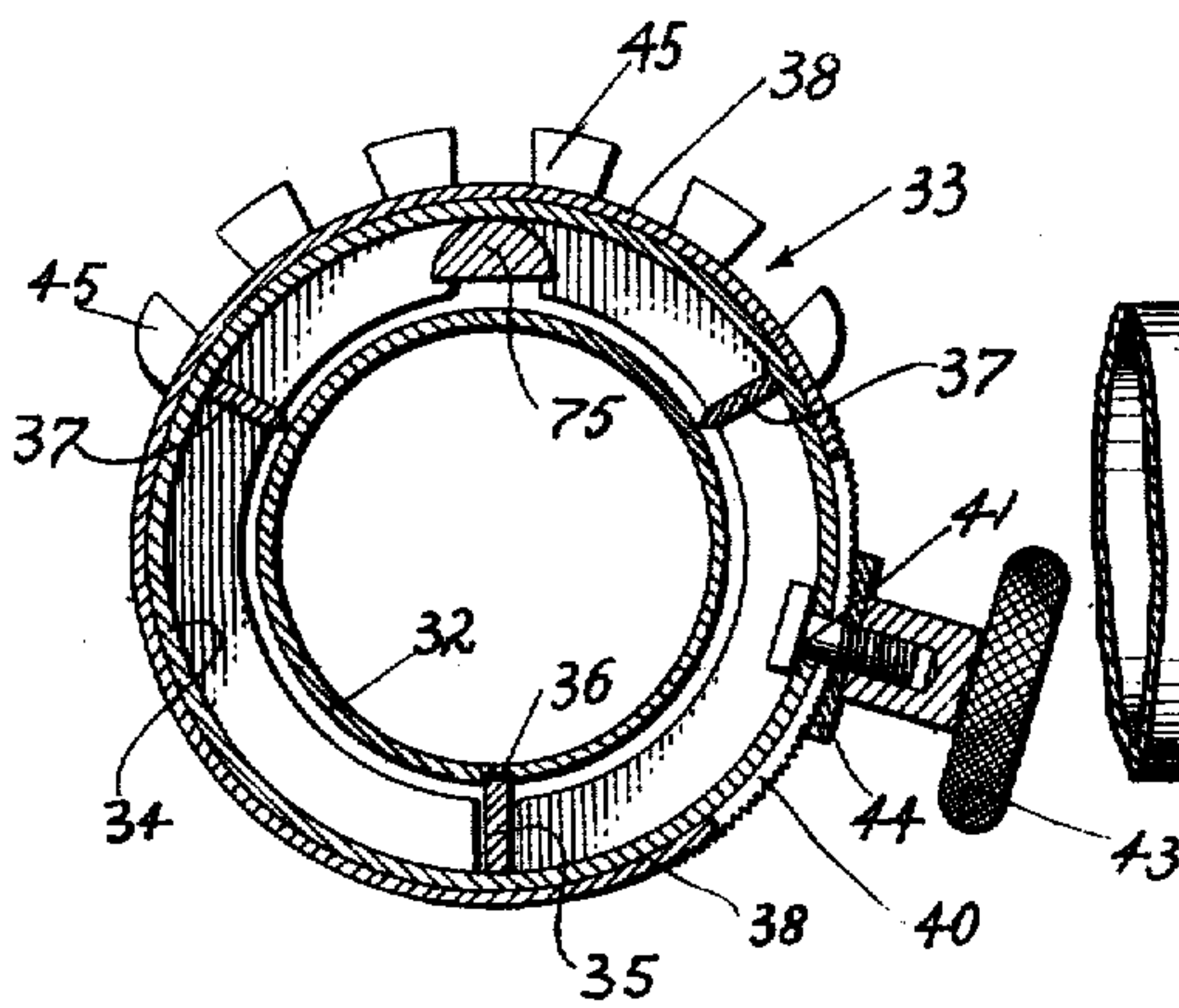


Fig. 6.

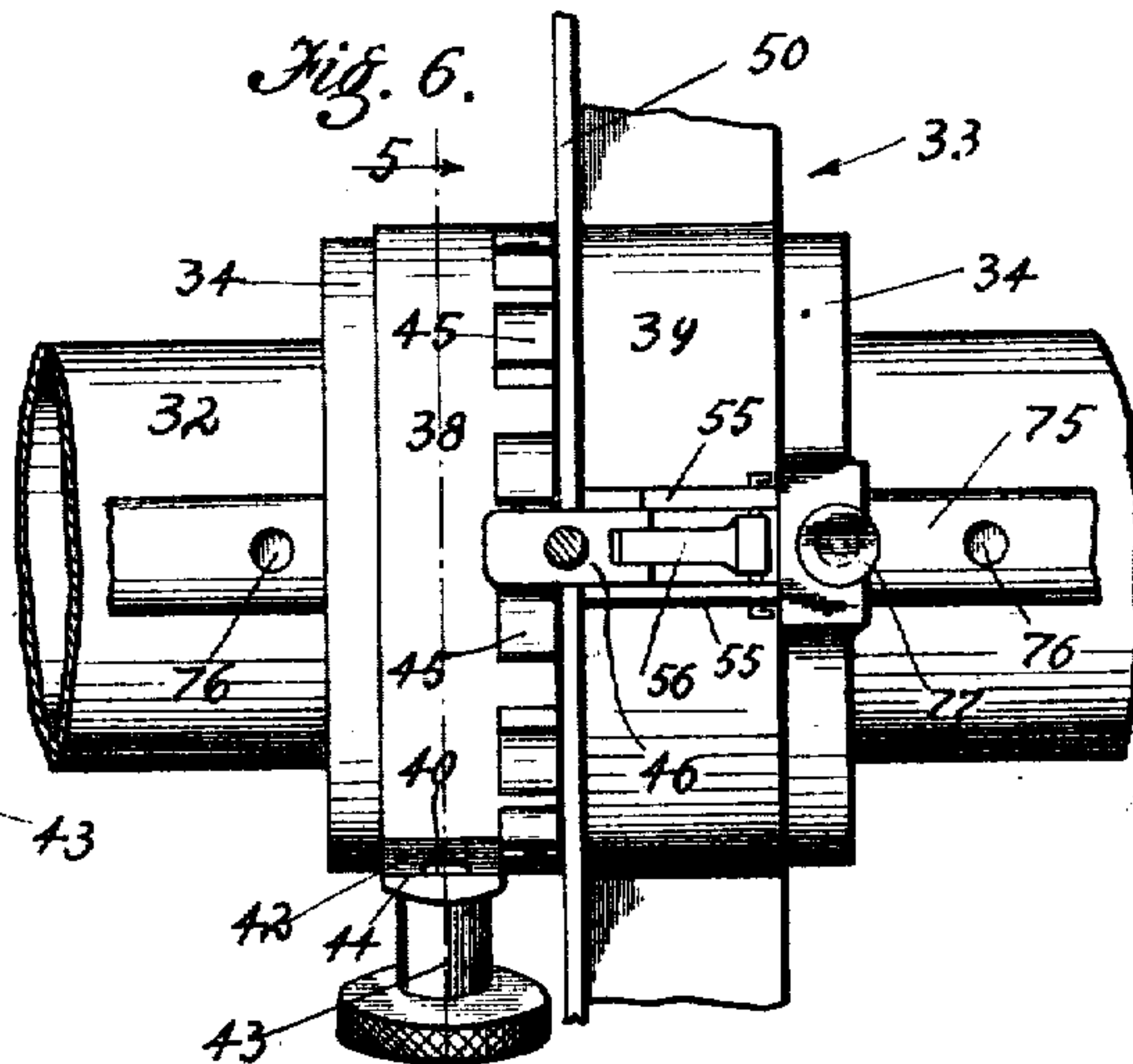


Fig. 8.

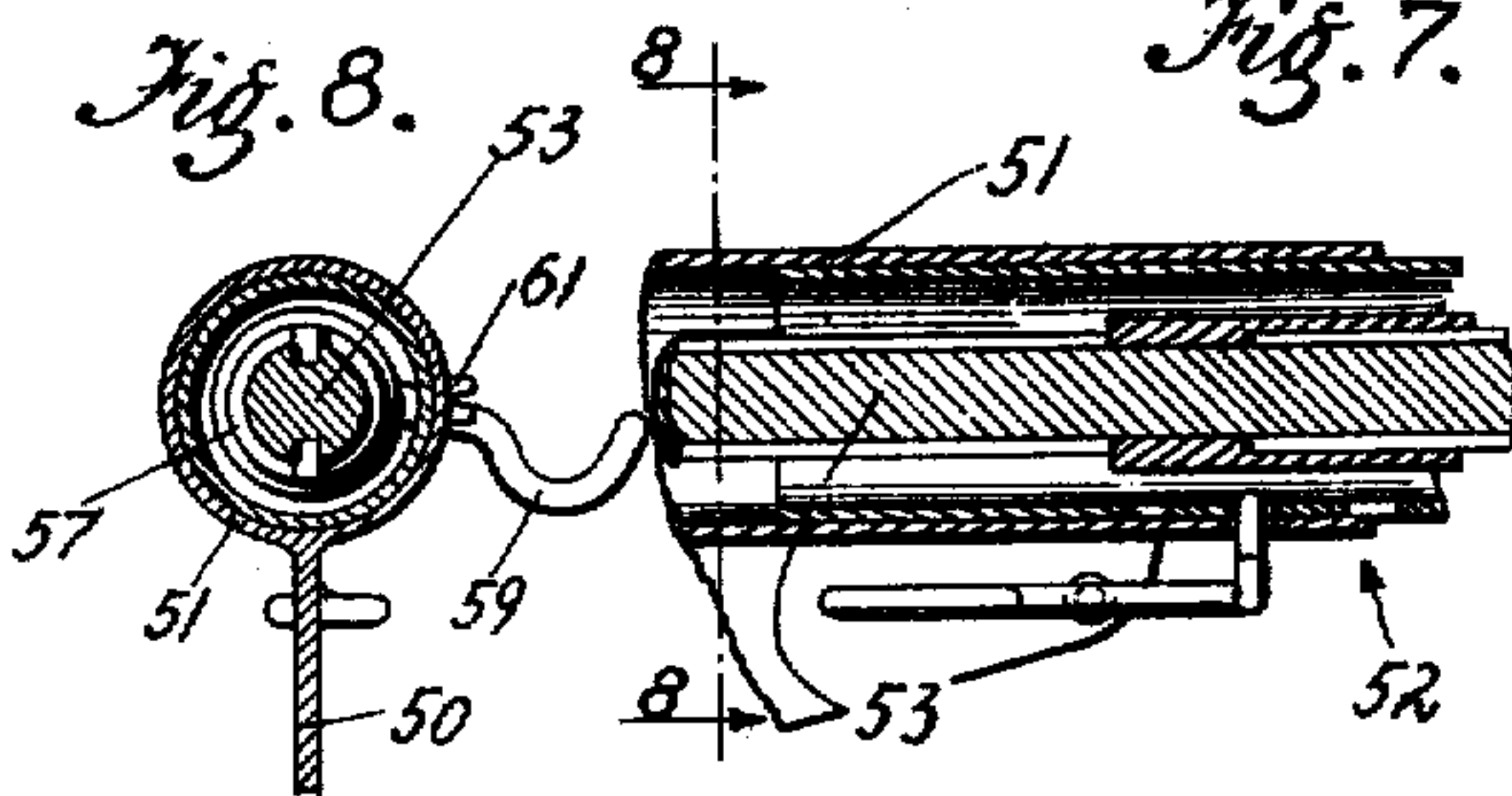
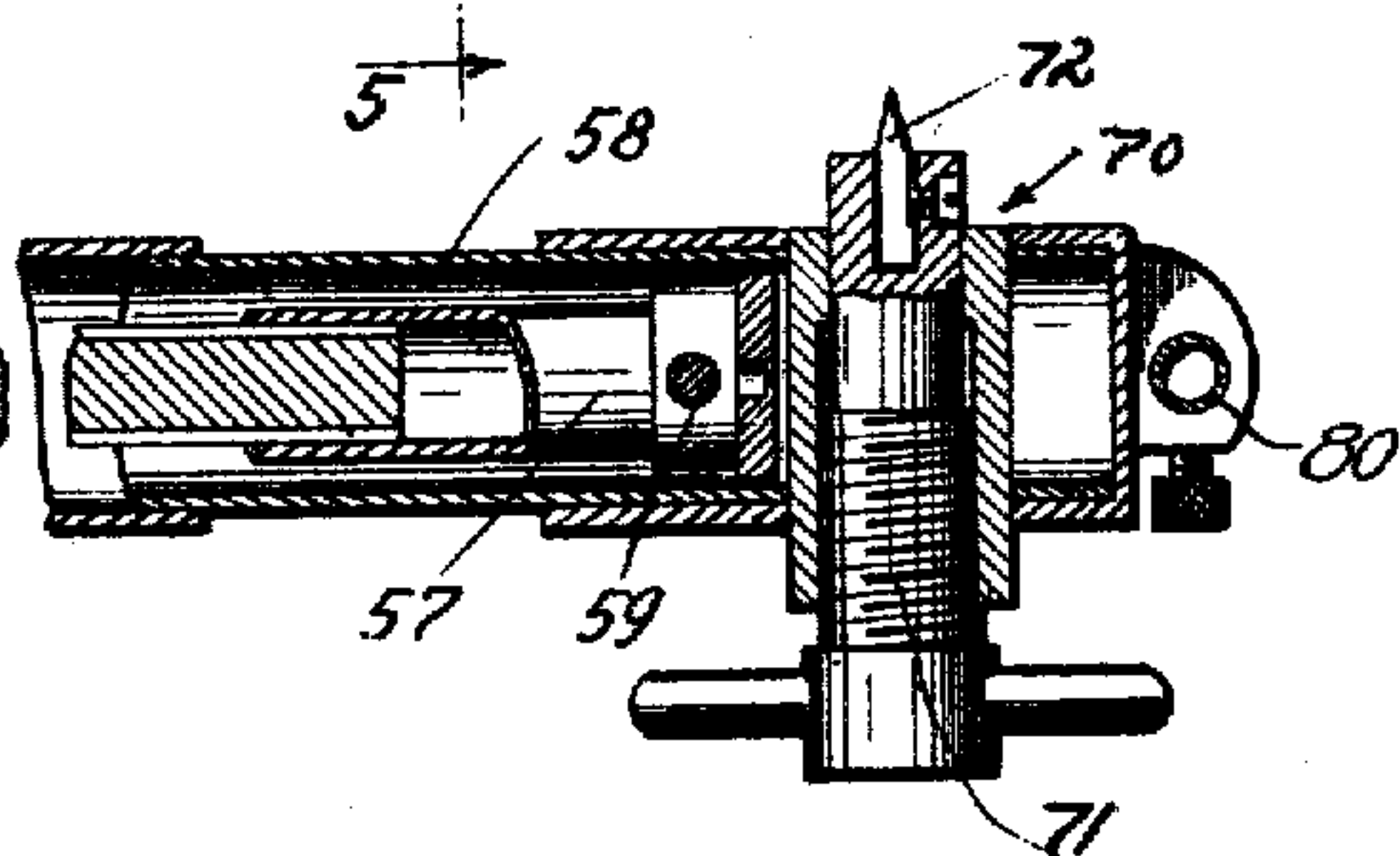


Fig. 7.



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UNITED STATES PATENT OFFICE.

NATHANIEL W. DEXTER, OF LOS ANGELES, CALIFORNIA.

DRAFTING-TABLE SUPPORT.

No. 915,418.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed June 17, 1908. Serial No. 438,905.

To all whom it may concern:

Be it known that I, NATHANIEL W. DEXTER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Drafting-Table Supports, of which the following is a specification.

The prime object of this invention is to provide a support for a drafting table which admits of the table being conveniently placed in any desired position. To this end an extensible supporting standard is employed by means of which the elevation of the table may be changed. Means are provided on the upper part of the standard for turning the upper structure horizontally to any desired position. In addition to this the upper structure is so constructed that it may be tipped to any desired angle and also that it may be moved laterally in front of the operator. The various parts are so arranged that they may be operated conveniently from any side of the table.

In the accompanying drawings, forming a part of this specification:—

Figure 1,— is a vertical section of the improved support with a table thereon. Fig. 2,— is a front elevation of a portion of the supporting standard. Fig. 3,— is a horizontal cross-section taken on line 3—3 of Fig. 1. Fig. 4,— is a front elevation of the upper structure of the support with parts in section. Fig. 5,— is a cross-section taken on line 5—5 of Fig. 6. Fig. 6,— is a plan view of one of the movable carriages. Fig. 7,— is an enlarged sectional detail of one end of one of the table supporting arms. Fig. 8,— is a section taken on line 8—8 of Fig. 7.

In the drawings 10 designates a suitable base which may be constructed in any approved manner, its only function being to support member 11 of the supporting column in a rigid vertical position. Base 10 may be provided with feet 10' having plates on their under side so that the base may be adapted to a warped or uneven floor by removing one or more of the plates. Member 11 of the column receives snugly within it member 12, both members being preferably constructed of metallic tubing. Member 12 carries at its upper end the upper structure of the support and is arranged to be moved vertically to adjust the working height of the upper structure above the floor. Mounted at the inside

of the upper end of member 11 is a block 13 carrying a pulley 14. Over this pulley a chain 15 passes which is secured at its inner and lower end to a rod 12' secured to member 12 at the lower end thereof. Chain 15 passes out through slot 16 in member 12, the slot also passing around block 13 so as to allow free movement of member 12 in member 11. A clasp 17 is provided to be slipped edge-wise over any appropriate link of the chain so as to keep it from being pulled into the column by the weight of member 12 and the upper structure thereon. To adjust the height of member 12 clasp 17 is removed from the chain when the chain may be either pulled out of the column or let into it. When an appropriate point has been reached the clasp is again slipped over a link of the chain and allowed to be pulled up tightly against the side of the column thus holding the upper member 12 of the column from further downward movement. Instead of a clasp a pin may be inserted through one of the links and keep the chain from downward movement.

On the upper end of member 12 is mounted a cap 18 carrying a hollow stud 19 on which a sleeve 20 is adapted to be revolvably supported, a screw 20' preventing the accidental removal of the sleeve. The lower edge of sleeve 20 is provided with notches 21 therein in which a spring pressed dog 22 is adapted normally to engage. Stud 19 is also provided with a single notch 23 into which this dog passes and which supports the inner end of the dog so that sleeve 20 is firmly held from turning. A spring 24 presses the dog inwardly and a cord 25 hanging in any convenient position affords means for its manual retraction. Mounted upon the upper end of sleeve 20 is a horizontal sleeve 30 provided with a set screw 31 therein by means of which horizontally supported arm 32 may be held within sleeve 30 in any desired position. Arm 32 is preferably constructed of metallic tubing and may be of any desired extent to accommodate any size of table.

Mounted upon supporting arm 32 are two movable carriages whose construction is shown in detail in Figs. 4, 5 and 6. These carriages consist of an inner sleeve 34 which is provided with a spline 35 on its lower side adapted to engage with a longitudinal key-way 36 cut on the under side of supporting arm 32. The sleeve is also provided with bearing supports on its upper side to insure a

smooth movement longitudinally along arm 32. From this construction it will be seen that the carriages are free to move along the arm but must rotate therewith whenever the arm is rotated by loosening set screw 31. Mounted upon sleeve 34 are two sleeves 38 and 39. Sleeve 38 is provided with a circumferential slot 40 therein through which a bolt 41 set in sleeve 34 projects. The surface of sleeve 38 around slot 40 is roughened as at 42 and thumb nut 43 on bolt 41 is adapted to force a washer 44 tightly against this roughened portion so that sleeve 38 is adjustably locked to sleeve 34. Sleeve 38 carries a number of circumferentially spaced lugs 45 between which dog 46 mounted indirectly upon sleeve 39 is adapted to pass. Sleeve 39 is revoluble upon sleeve 34 being held in any desired position by the insertion of dog 46 between appropriate lugs 45. Sleeve 39 is provided with a stiffening web 50 thereon which supports central member 51 of table supporting arms 52. Mounted within member 51 is a shaft 53 upon which dog 46 is mounted through the medium of a stud 54. A guide 55 is mounted on either side of the dog to guide it in its proper motion and these guides also prevent the longitudinal movement of shaft 53 in the table supporting arms. A spring 56 presses dog 46 normally into engagement with lugs 45, the dogs being removed from engagement with the lugs by the rotation of shaft 53. Shaft 53 extends along arm 52 and is slidably connected at its end to a hollow shaft 57 by a spline arrangement, shafts 57 being mounted in outer member 58 of the table supporting arm. Outer member 58 telescopes within inner member 51 so that the table supporting arm might be lengthened or shortened at will to accommodate the larger or smaller table, a spline arrangement on shafts 53 and 57 allowing this movement to take place. At the outer end of outer member 58 a radially projecting handle 59 is placed in shaft 57, this pin projecting through a slot 60 in member 58. The whole arrangement is such that when handle 59 is pressed downwardly dog 46 will be removed from engagement with lugs 45 and sleeve 39 carrying a table supporting arm may be turned upon sleeve 34. Screws or pins 61 in members 51 engage in longitudinal slots 62 in members 58 and thus confine the outer members to a longitudinal movement. At the outer ends of each of the table supporting arms an end piece 70 is provided which carries vertical screw 71 having a pointed upper end 72 adapted to pierce the upper surface of table 73 and to prevent its lateral movement on the support. As shown in Fig. 1 the screws are capable of being moved upwardly to accommodate a warped board. For additional security pointed end 72 may be made in the form of a wood screw and it also may be set into screw

71 or attached thereto in any manner as a separate piece. Carriages 33 are spaced apart upon horizontal arm 32 by means of a bar 75 having depressions 76 in its upper face into which the lower end of screw 77 mounted upon sleeve 34 is adapted to engage. The two carriages can thus be moved together longitudinally along supporting arm 32 carrying table 73 with them to any convenient position.

From the foregoing description it will be seen that with this support the position of the table may be varied in any desired manner. Supporting arm 32 may be made of any length so that the table supported thereby may be moved transversely in front of the operator to bring any portion of the table directly in front of him. The angle at which the table sets may be conveniently and quickly changed by means of an arrangement of dogs 46, both table supporting arms 52 turning together. If it is desired to set one of the arms at a slightly different angle from the other on account of a warped board or the like, screws 43 may be loosened and sleeves 38 set in any desired position. Any small angular movement of the table may also be accomplished by loosening screw 30. When it is desired to turn the table horizontally dog 22 is pulled outwardly by means of cord 25 and the table is then turned to the desired position when the dog is allowed to enter into the nearest notch 21. It will also be seen that the table may be easily reversed and the opposite face used as it may be readily detached from the support. As an additional convenience a rod 80 may be supported along the front of the table on end pieces 70, this rod being used to hang pen wipers, etc., over. Cord 25 from dog 22 may be hung over this rod so as to be in a convenient position. A rod 90, placed in webs 50 as illustrated in Fig. 1, provides a convenient support for a roll of drafting paper which may be drawn up over the table.

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

1. A table support, comprising a vertically extensible standard, a revoluble superstructure mounted on said standard, said superstructure comprising a longitudinal supporting arm, and transverse supporting arms slidably mounted on said longitudinal arm.

2. A table support, comprising a vertically extensible standard, a horizontally revoluble superstructure mounted upon said standard, said superstructure comprising a horizontal supporting arm rotative in a vertical plane, and transverse supporting arms slidably mounted on said horizontal arm, said transverse arms provided with table securing means on their ends.

3. A table support, comprising a supporting standard, a horizontally revoluble sup-

porting arm mounted on said standard, and vertically revoluble supporting arms slidably mounted on said horizontally revoluble arm.

5 4. A table support, comprising a supporting standard, a horizontally revoluble supporting arm mounted on said standard, vertically revoluble supporting arms slidably mounted on said horizontal revoluble arm, said vertically revoluble arms being extensi-
10 ble, and means to adjustably space said vertically revoluble arms apart.

5. A table support, comprising a vertically extensible supporting column, means to hold
15 said column in any position of extension, a horizontal supporting arm revolubly mount-

ed on the upper end of said column, means to lock said arm from rotation, a pair of sliding carriages mounted on said arm, a transverse table supporting arm mounted on each carriage, means to extend said table supporting
20 arms, table securing means at the outer ends of said table supporting arms, and means to adjustably space said carriages apart.

In witness that I claim the foregoing I have hereunto subscribed my name this 8th
25 day of June, 1908.

NATHANIEL W. DEXTER.

Witnesses:

EDMUND A. STRAUSE,
OLLIE PALMER.