

No. 822,346.

PATENTED JUNE 5, 1906.

J. C. CHRISTEN, J. ORGEICH & C. BORN.

ROLLER TOWEL RACK.

APPLICATION FILED OCT. 26, 1905.

2 SHEETS—SHEET 1.

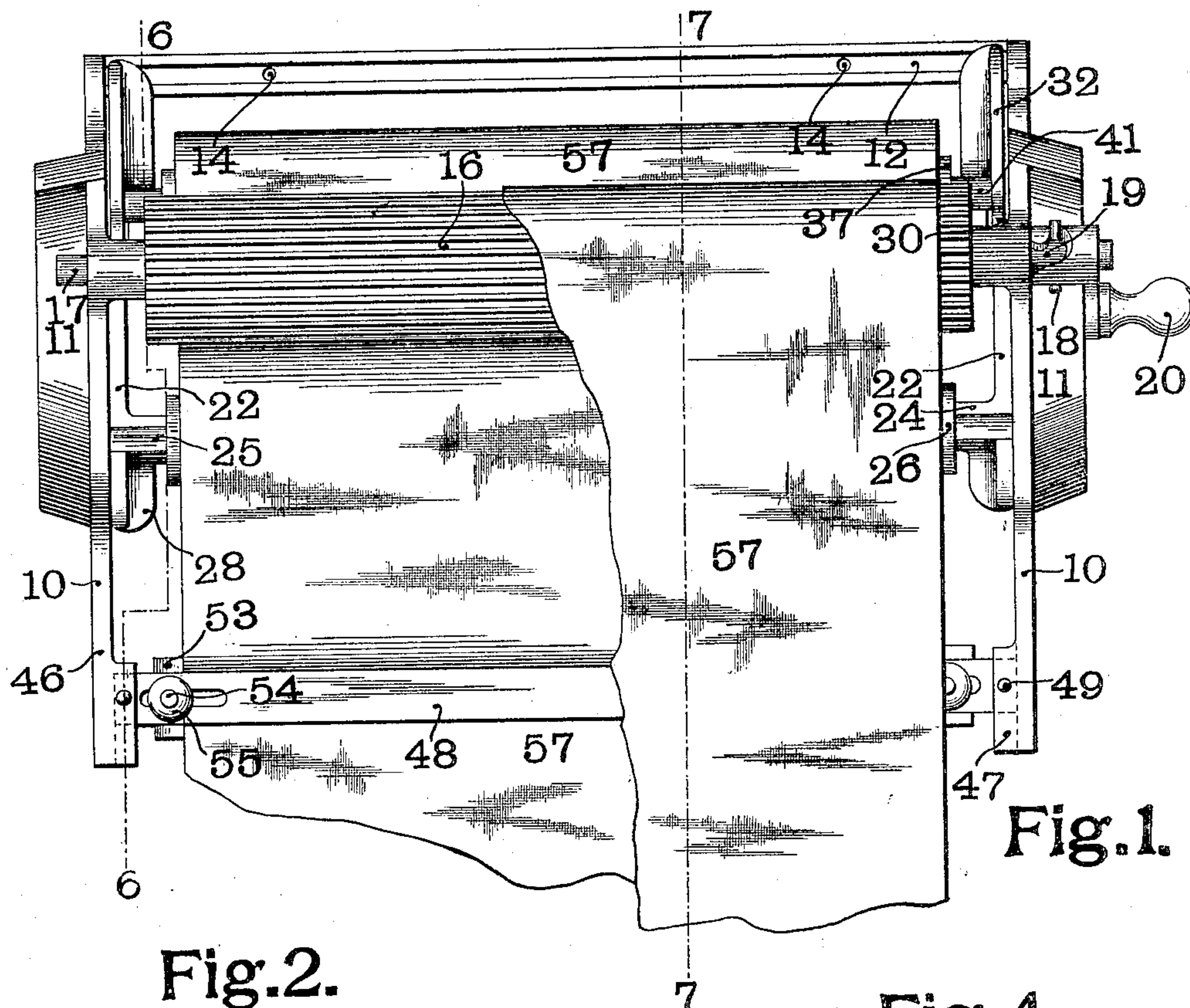


Fig. 2.

Fig. 3.

Fig. 4.

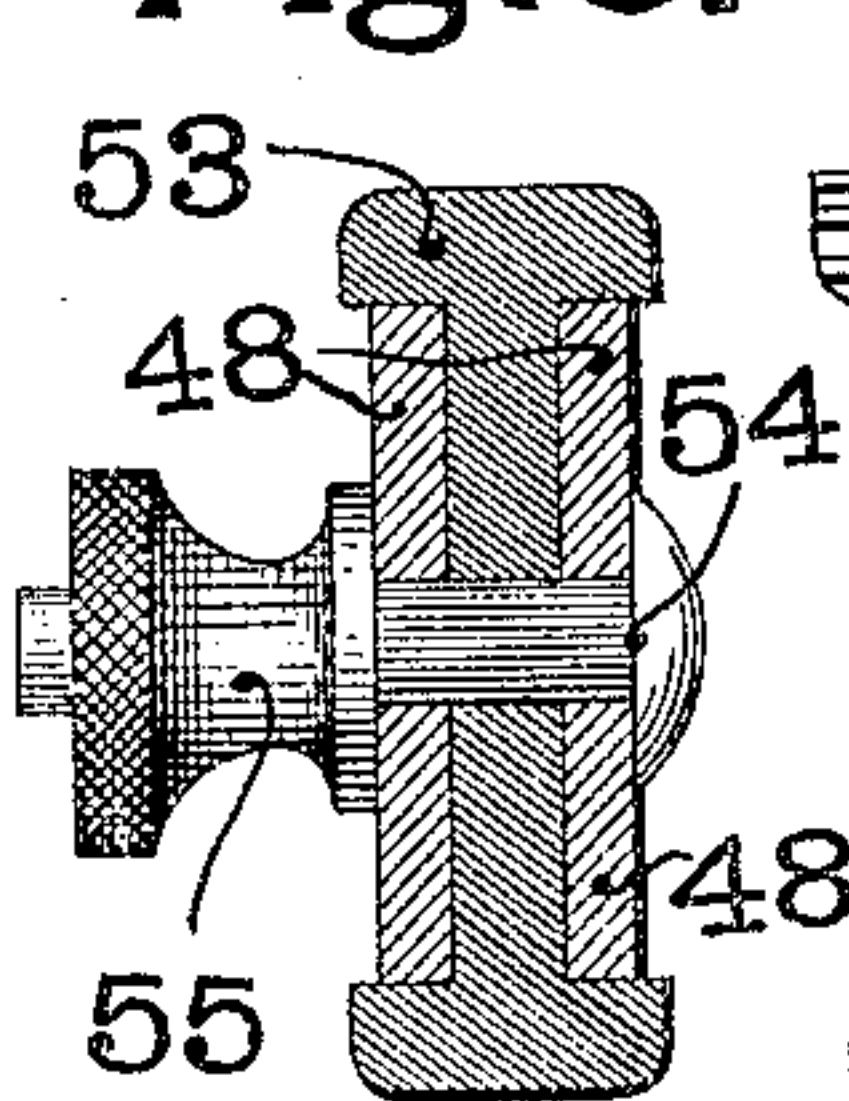
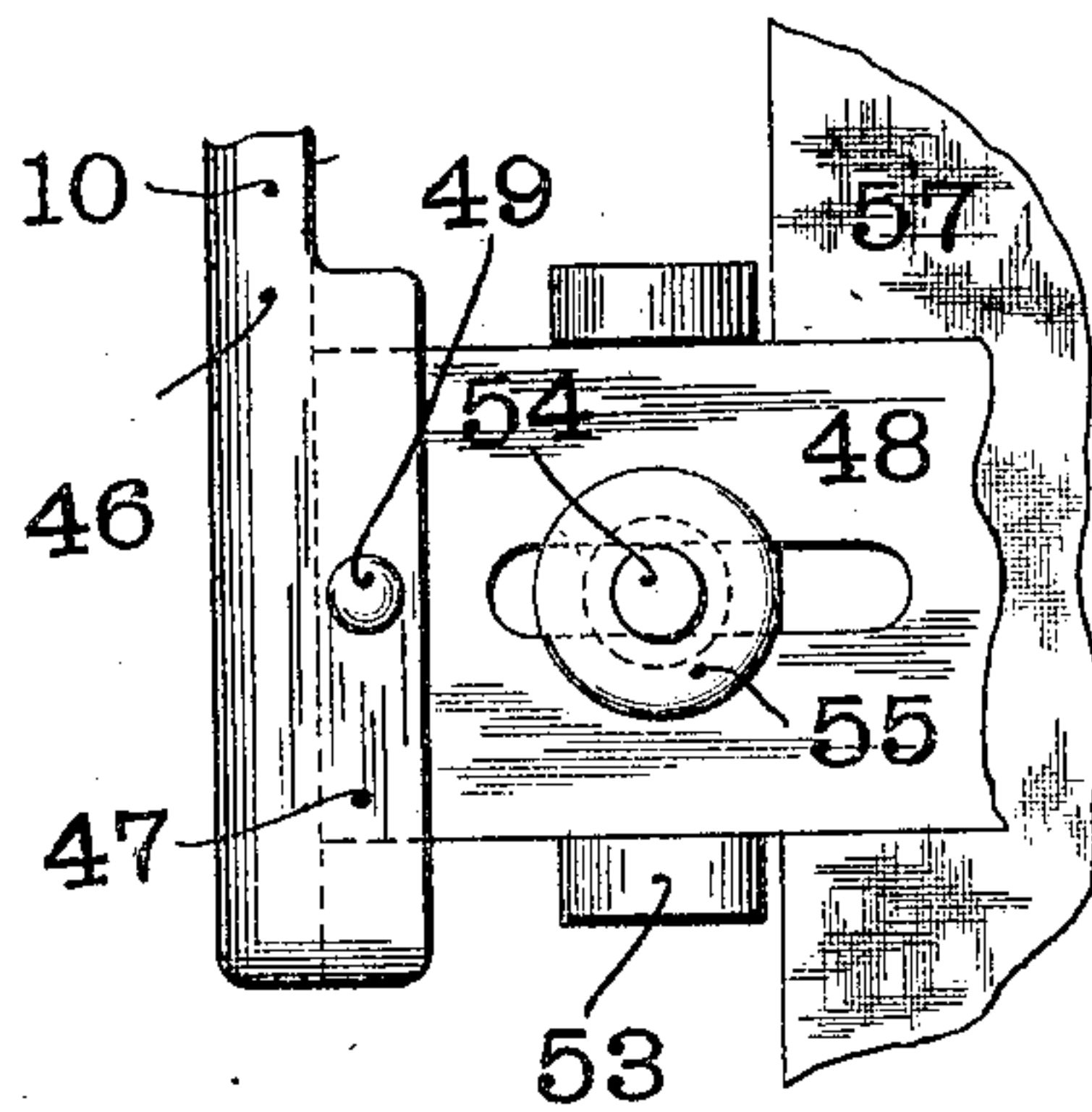
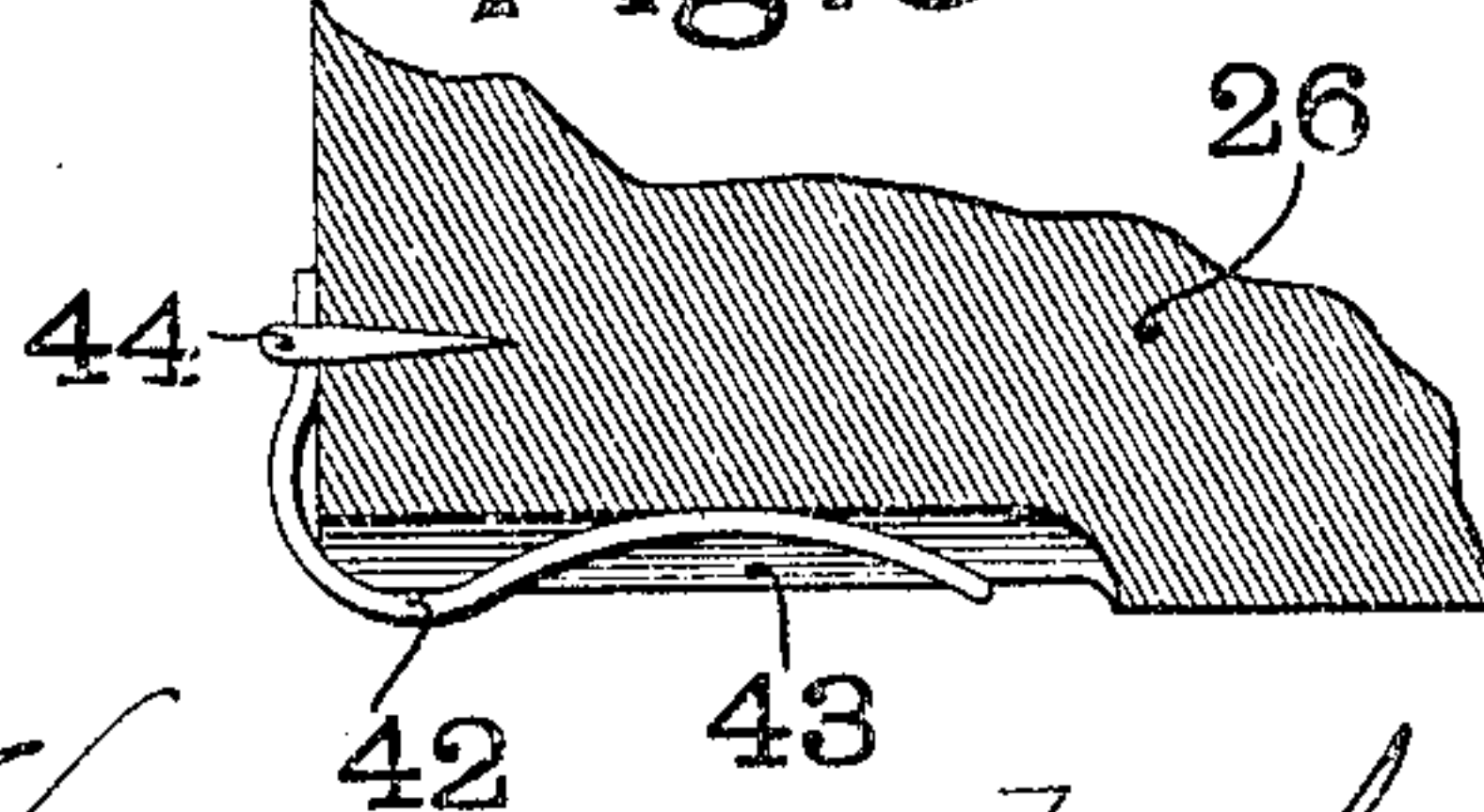


Fig. 5.



WITNESSES:  
*Good Keeler*  
*Walter Shelton*

by *Lowell B. Brown*  
ATTORNEYS

INVENTORS  
J. C. Christen.  
J. Orgeich.  
Chas. Born.



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2 SHEETS—SHEET 2.

Fig. 7.

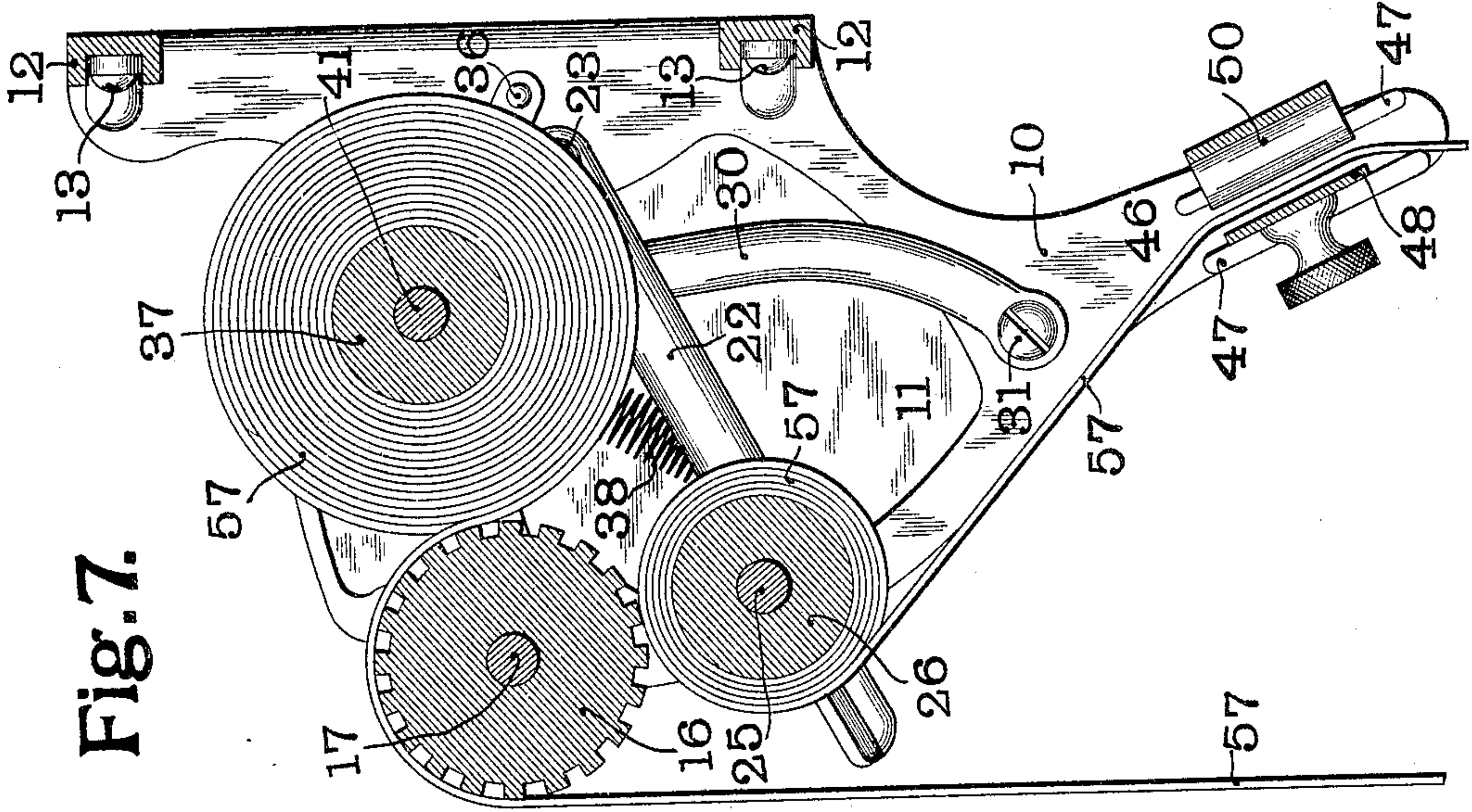
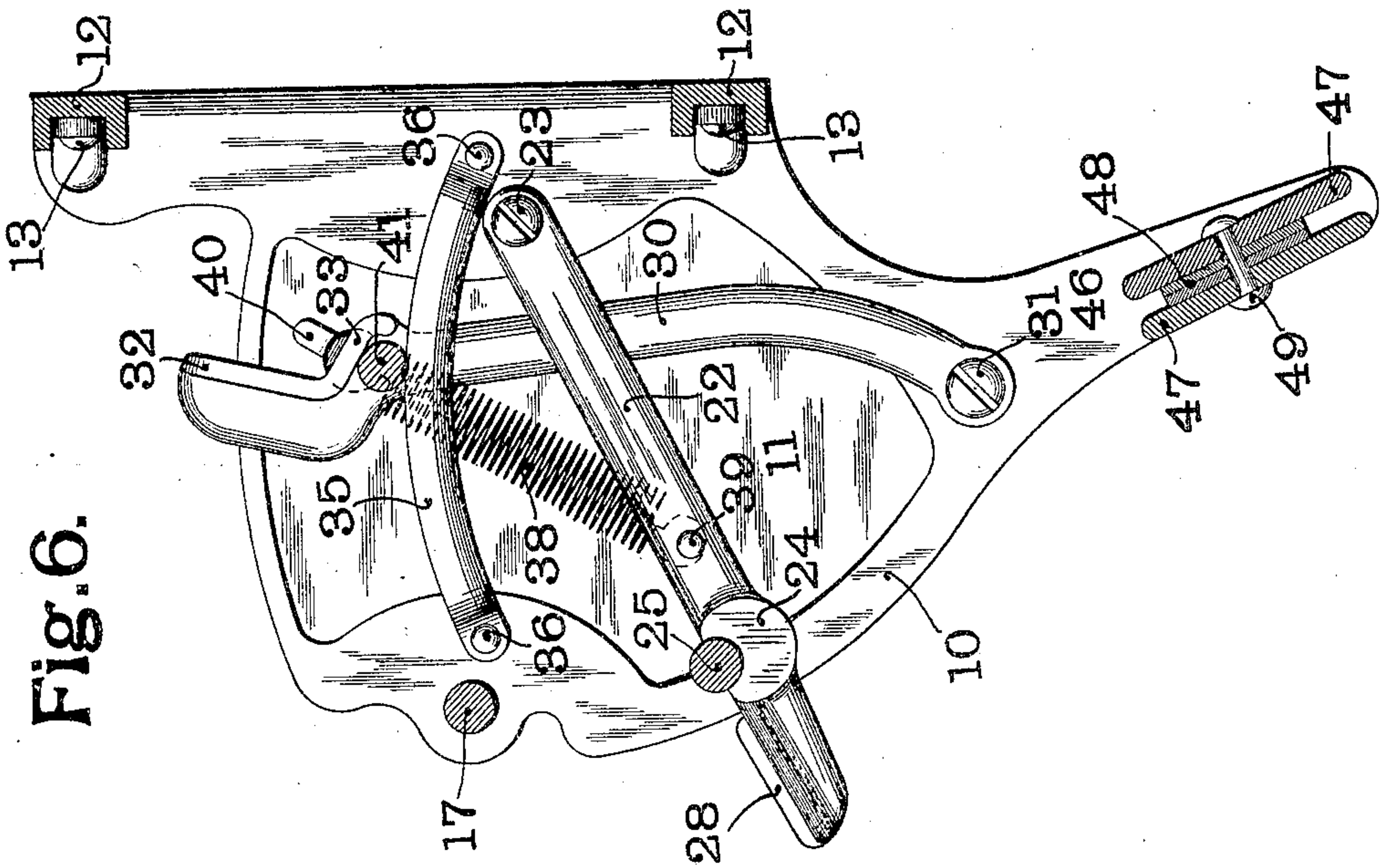


Fig. 6.



WITNESSES:

*Walter Shelton*

INVENTORS  
J. C. Christen.  
J. Orgeich.  
Chas. Born.

by *Lowell & Bryson*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

JOSEPH C. CHRISTEN AND JOSEPH ORGEICH, OF ST. LOUIS, MISSOURI,  
AND CHARLES BORN, OF CHARLESTOWN, MASSACHUSETTS; SAID  
ORGEICH AND BORN ASSIGNORS TO SAID CHRISTEN.

## ROLLER TOWEL-RACK.

No. 822,346.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed October 26, 1905. Serial No. 284,455.

*To all whom it may concern:*

Be it known that we, JOSEPH C. CHRISTEN and JOSEPH ORGEICH, residing at the city of St. Louis, State of Missouri, and CHARLES BORN, residing at Charlestown, State of Massachusetts, citizens of the United States, have invented a certain new and useful Improvement in Roller Towel-Racks, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Our invention relates more particularly to a roller towel-rack which is provided with a main roll and two detachably-mounted auxiliary rolls, upon one of which the unused portion of the towel is stored and the other of which automatically takes up and stores the used portion of the towel as the unused portion is fed out. The main roll is provided with suitable means for rotating it in order to wind the towel upon one of the auxiliary rolls, and the auxiliary rolls are detachable for the purpose of removing a soiled towel and inserting a clean one when desired.

In the accompanying drawings, in which like characters of reference indicate similar parts in the different views, Figure 1 is a front elevation. Figs. 2, 3, 4, and 5 are enlarged detail views. Fig. 6 is a vertical section on the line 6 6 of Fig. 1, and Fig. 7 is a vertical section on line 7 7 of Fig. 1.

10 indicates end plates provided with pockets 11 and joined by channel-shaped cross-bars 12, suitably fastened to the end plates by means of rivets 13. The upper cross-bar 12 is provided with perforations 14, by means of which it may be attached to a wall or other suitable support.

16 is a grooved roll mounted on a shaft 17 in the forward part of the end pieces 10. One end of the shaft 17 is provided with a pin 18, adapted to fit into a cam-slot 19 in a crank 20.

22 designates levers pivoted at 23 to the end plates 10. These levers are provided with bearings 24, in which the shaft 25 of an auxiliary roll 26 is removably journaled. The outer ends of levers 22 are provided with flanges 28, which act as guideways for the insertion of the roll 26.

30 designates levers pivoted at 31 in the

end plates 10. These levers are provided at their upper ends with flanges 32, provided with laterally-extending portions 33. Guides 35 are riveted at 36 to the end plates 10. Between the projections 33 and the guide-plates 35 is removably mounted the shaft 41 of the second auxiliary roll 37. The flanges 32 form guideways for the insertion of the shaft 41. Coiled springs 38 are attached at one end to lugs 39 on the levers 22 and at the other end to hooks 40 on the levers 30. These springs 38 are contained in the pockets 11. Each of the rolls 26 and 37 is provided at each end with a fastening device, as shown in Fig. 5, consisting of a spring or clip 42 in a groove 43 on the roll and held in position by means of a staple 44, driven into the end of the roll. The end plates 10 are provided with downward extensions 46, each of which is provided with flanges 47, between which two metal strips 48 are held by rivets 49. The rear strip 48 is provided with a bend or offset 50, as shown in Fig. 7. As best shown in Figs. 3 and 7, these two strips are slightly separated throughout their length, and between them are adjustable stops 53, forming a guideway for the towel, as hereinafter described. These stops are held in position by means of bolts 54, provided with milled heads 55.

In the operation of our invention the clean towel 57 is stored upon the upper auxiliary roll 37, as shown in Fig. 7 of the drawings, the free end being passed over the roll 16 and upward through the space between the strips 48 and fastened to the lower auxiliary roll 26 by means of the spring-clips 42. It will be seen that as the clean towel 57 is fed out from the roll 37 by pulling upon it the roll 26 is rotated to take up a substantially equal amount of that portion of the towel which has been used. When the clean towel on the roll 37 becomes exhausted, the roll 26 is removed from the rack by depressing the levers 22. After the soiled towel has been removed from the roll 26 the said roll is reinserted, and a clean towel is passed upward between the strips 48 and fastened at its end to the roll 26 by means of the spring-clips 42. It will be seen that if the roll 16 is now driven by rotating the crank 20 the clean towel will be wound upon the roll 26. The rolls 26 and 37 may then be exchanged in po-



sition, the roll 37 being empty. The free end of the towel is then again passed upward between the strips 48 and fastened to the empty roll, when the operation of feeding out and taking up the towel may be repeated. The stops 53 may be adjusted to guide properly any width of towel.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a roller towel-holder, the combination with a bracket or support, of a pair of oppositely-rotatable rolls mounted therein and to which the ends of a towel are adapted to be secured with the looped portion thereof depending, a third roll intermediate of the first two rolls and over which the towel is adapted to pass from the let-off roll of the said pair, and means for holding all three rolls in constant contact whereby the rotation of the third roll by a pull on the towel will wind the take-up roll of said pair regardless of the changing diameter.

2. In a roller towel-holder, the combination with a bracket or support, of a pair of oppositely-rotatable rolls mounted therein, and to which the ends of a towel are adapted to be secured with the looped portion thereof depending, a third roll intermediate of the first two rolls and over which the towel is adapted to pass from the let-off roll of the said pair, and spring-actuated means for holding all three rolls in constant yielding contact whereby the rotation of the third roll by a pull on the towel will wind the take-up roll of said pair regardless of the changing diameter of said pair.

3. In a roller towel-holder, the combination with a support, of two parallel rolls mounted to rotate upon said support, a strip of towel fabric having its ends attached to said rolls and adapted to be wound thereon, a third roll mounted to rotate upon said support parallel with and adjacent to said first-named rolls, and means for retaining both towel-holding rolls pressed upon said third roll in yielding contact, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and an equal length wound upon the other holding-roll.

4. In a roller towel-holder, the combination with a support, of a pair of parallel rolls rotatably mounted upon said support and movable bodily thereon, a strip of towel fabric having its ends attached to said rolls and adapted to be wound thereon, a third roll rotatably mounted on said support adjacent to said first-named rolls, and means for moving said first-named rolls to keep them constantly in contact with said third roll, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and a substantially equal amount wound upon the other holding-roll.

5. In a roller towel-holder, the combina-

tion with a bracket or support and a roll journaled in the forward portion thereof, guides extending rearwardly from said roll, a let-off roll mounted on said guides and from which the towel is adapted to pass over the first-named roll, means for moving the let-off roll along the guides to keep the same constantly pressed against the first-named roll, a take-up roll to which the other end of the towel is adapted to be secured and spring-pressed arms carrying said take-up roll and constantly pressing it up against the under side of the first-named roll for rotation thereby.

6. In a roller towel-holder, the combination with a support, of a pair of parallel rolls, a strip of towel fabric having its ends attached to said rolls and adapted to be wound thereon, a pair of pivoted arms in which the lower or take-up one of said rolls is rotatably mounted, means for forcing said arms upwardly, a guide thereabove for the other of said rolls, means for moving said second roll outwardly on its guide, and a third roll at the outer end of the guide and with which said first and second rolls are kept constantly in contact, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and an equal length wound upon the other holding-roll.

7. In a roller towel-holder, the combination with a support, of a pair of parallel rolls, a strip of towel fabric having its ends attached to said rolls and adapted to be wound thereon, a pair of pivoted arms in which the lower or take-up one of said rolls is rotatably mounted, means for forcing said arms upwardly, a curved guide thereabove for the other of said rolls, means for moving said second roll outwardly on its guide, and a third roll with which said first and second rolls are kept constantly in contact, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and a substantially equal length wound upon the other holding-roll.

8. In a roller towel-holder, the combination with a support, of a pair of parallel rolls, a strip of towel fabric having its ends secured to said rolls and adapted to be wound thereon, a pair of spring-pressed pivoted arms in which the lower or take-up one of said rolls is mounted, means for pressing the arms upwardly, a guide thereabove for the other of said rolls, a pair of spring-pressed pivoted arms for moving said second roll outwardly on its guide, and a third roll with which said first and second rolls are kept constantly in contact, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and a substantially equal length wound upon the other holding-roll.

9. In a roller towel-holder, the combination with a support, of a pair of parallel rolls, a strip of towel fabric having its ends secured to said rolls and adapted to be wound there-



on, a pair of spring-pressed pivoted arms in which the lower or take-up one of the said rolls is mounted, means for pressing the arms upwardly, a curved guide thereabove for the other of said rolls, a pair of spring-pressed pivoted arms for moving said second roll outwardly on its guides, and a third roll with which said first and second rolls are kept constantly in contact, whereby as said third roll is rotated the fabric is unwound from one of its holding-rolls and a substantially equal length wound upon the other holding-roll.

10. In a roller towel-holder, the combination with a support, of a pair of parallel rolls, a strip of towel fabric having its ends secured to said rolls and adapted to be wound thereon, a pair of arms pivoted to said support on which one of said rolls is mounted, guides on the support on which the other of the said rolls is movably supported, a pair of arms pivoted on the support, and adapted to move said roll on its guides, a third roll mounted in fixed bearings on said support parallel

with and adjacent to said towel-carrying rolls, and a spring connecting said pairs of pivoted arms and tending to move them in direction to force the towel-carrying rolls against said third roll, whereby as the said third roll is rotated the fabric is unwound from one of its holding-rolls and a substantially equal length wound upon the other holding-roll.

In testimony whereof we have hereunto set our hands and affixed our seals in the presence of the subscribing witnesses.

JOSEPH C. CHRISTEN. [L. S.]

JOSEPH ORGEICH. [L. S.]

CHARLES BORN. [L. S.]

Witnesses to signatures of Joseph C. Christen and Joseph Orgeich:

WALTER SHELTON,

JAMES H. BRYSON.

Witnesses to signature of Charles Born:

WILLIS J. HOWARD,

WM. F. MACALLA.