

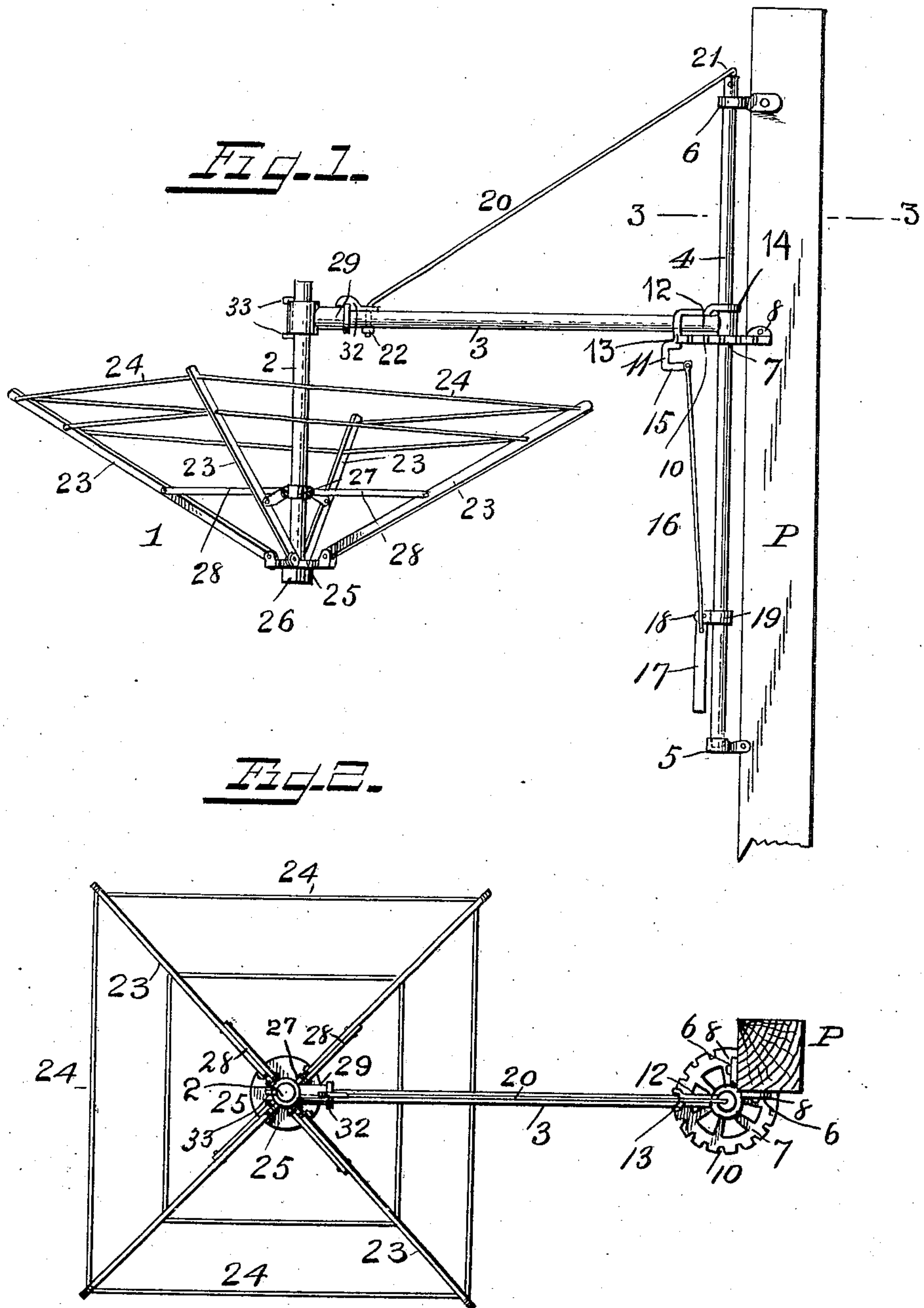
No. 845,248.

PATENTED FEB. 26, 1907.

W. S. MORGAN.
CLOTHES DRIER.

APPLICATION FILED APR. 23, 1906.

2 SHEETS—SHEET 1.



Witnesses
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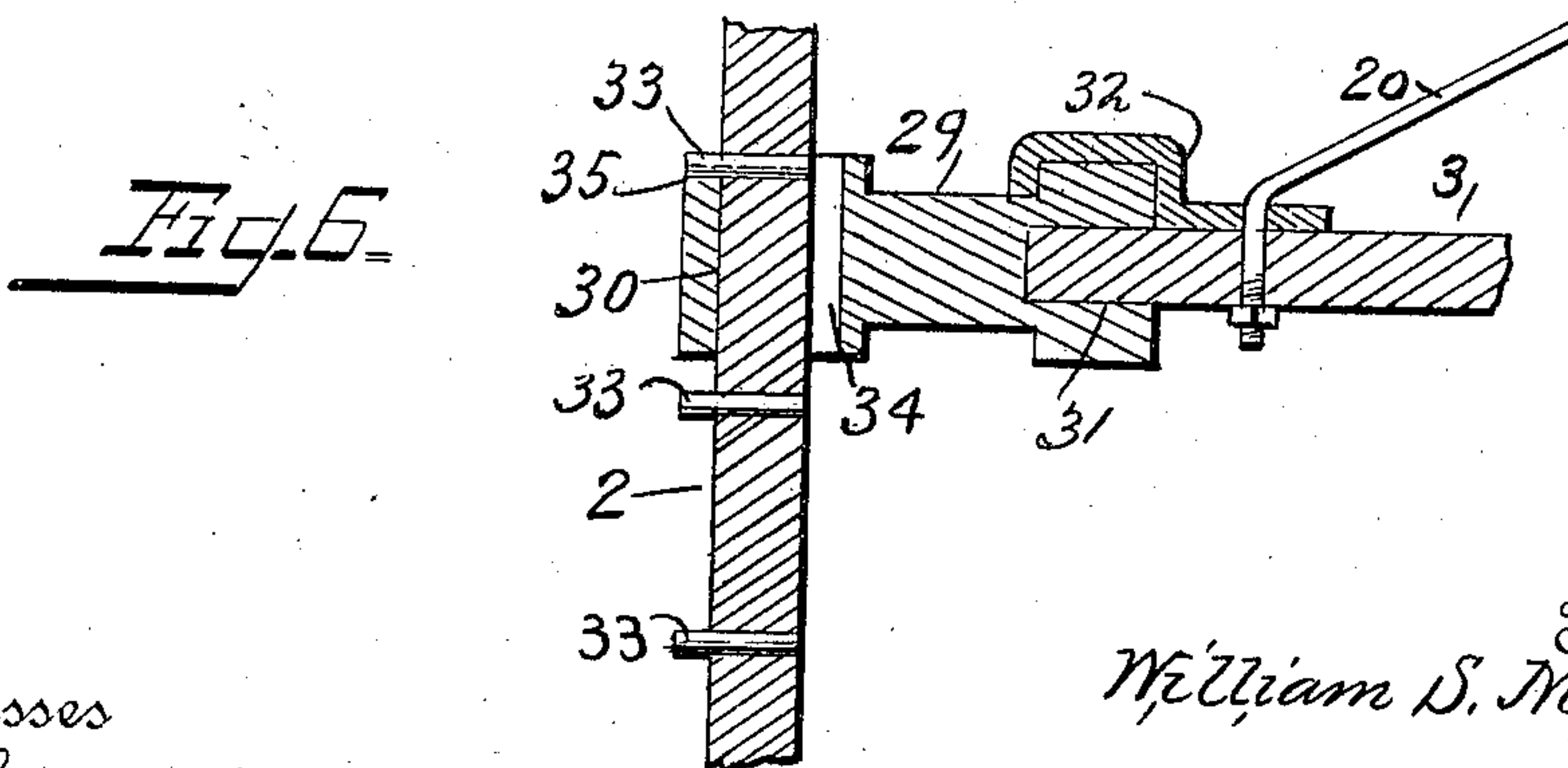
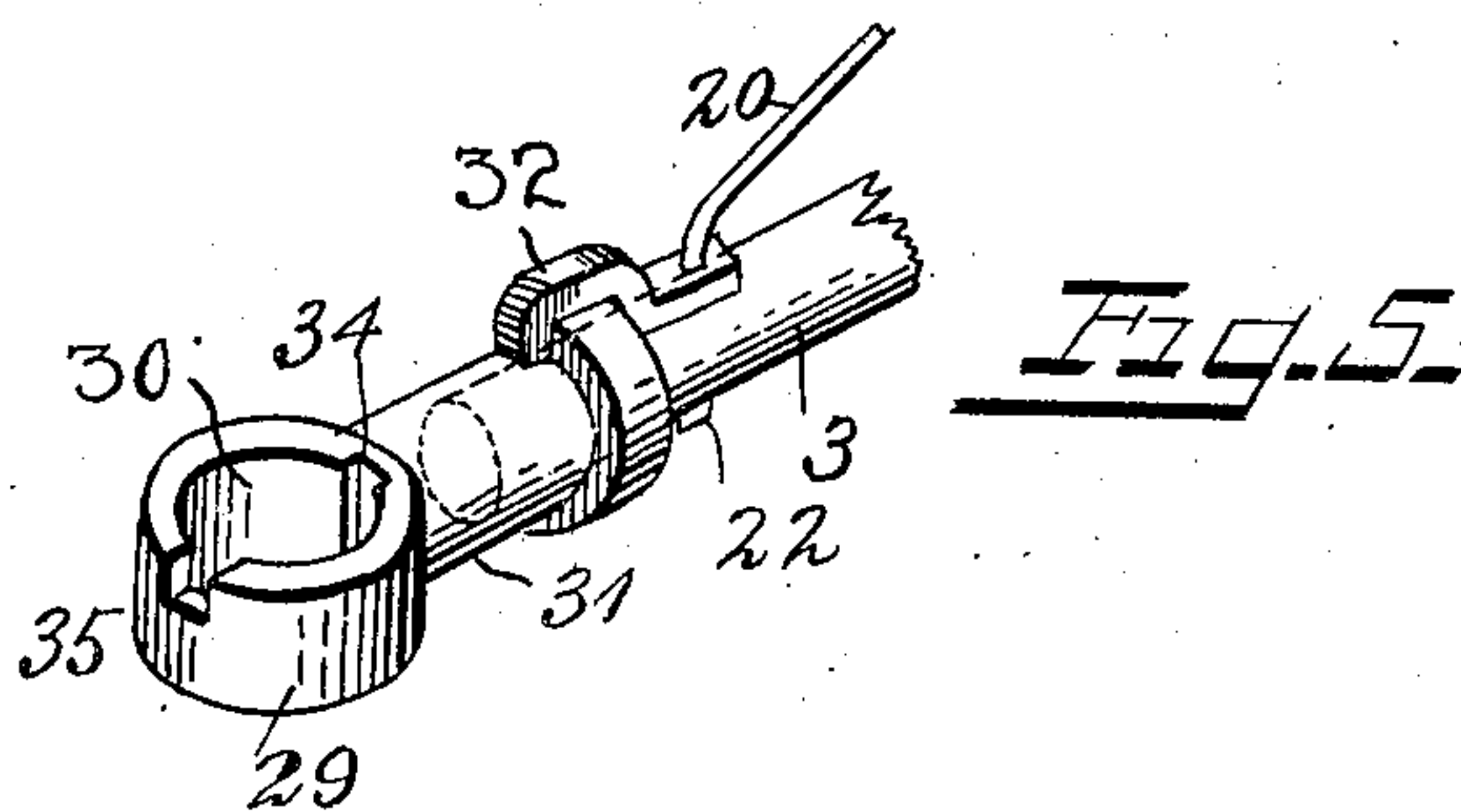
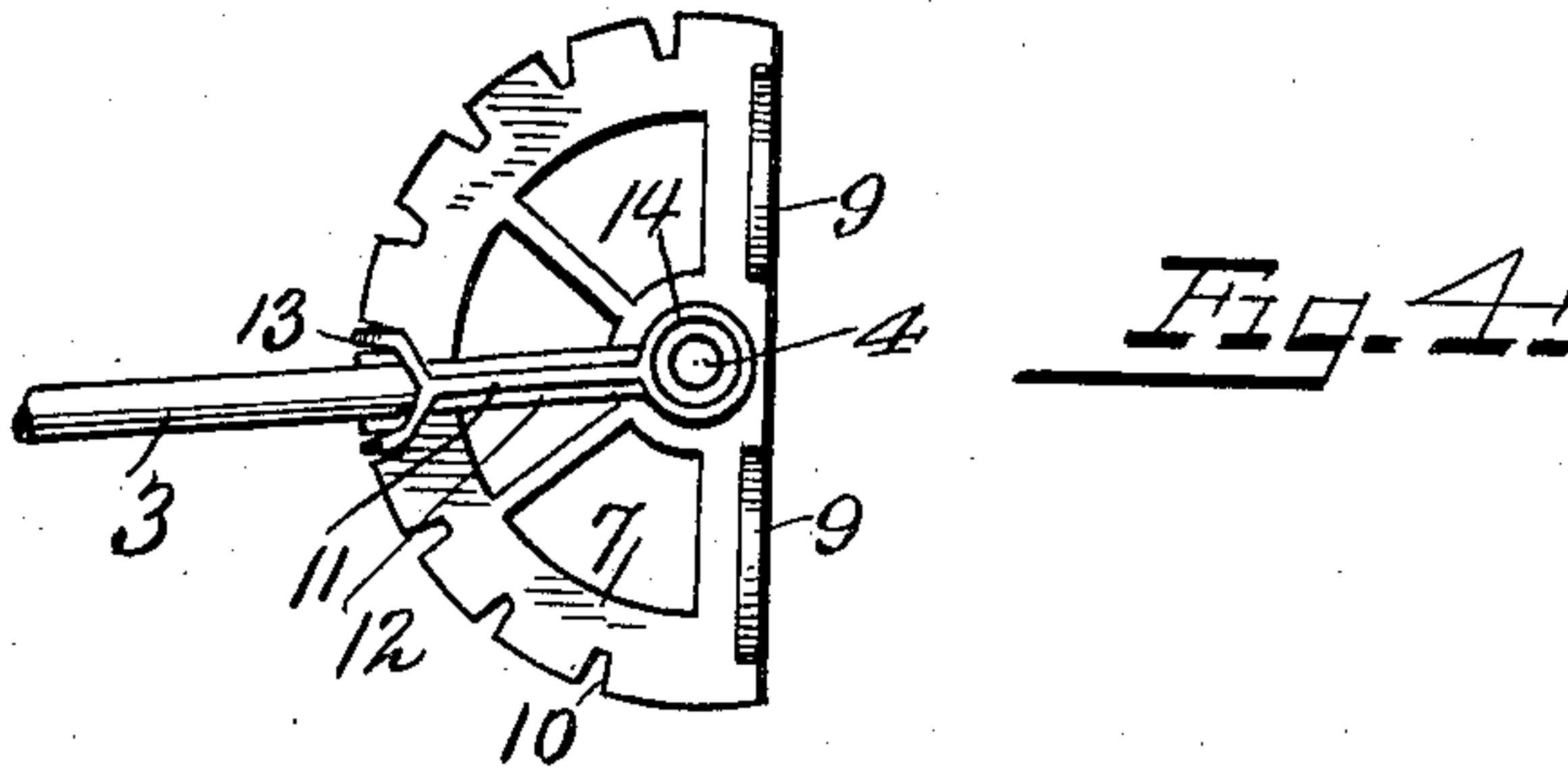
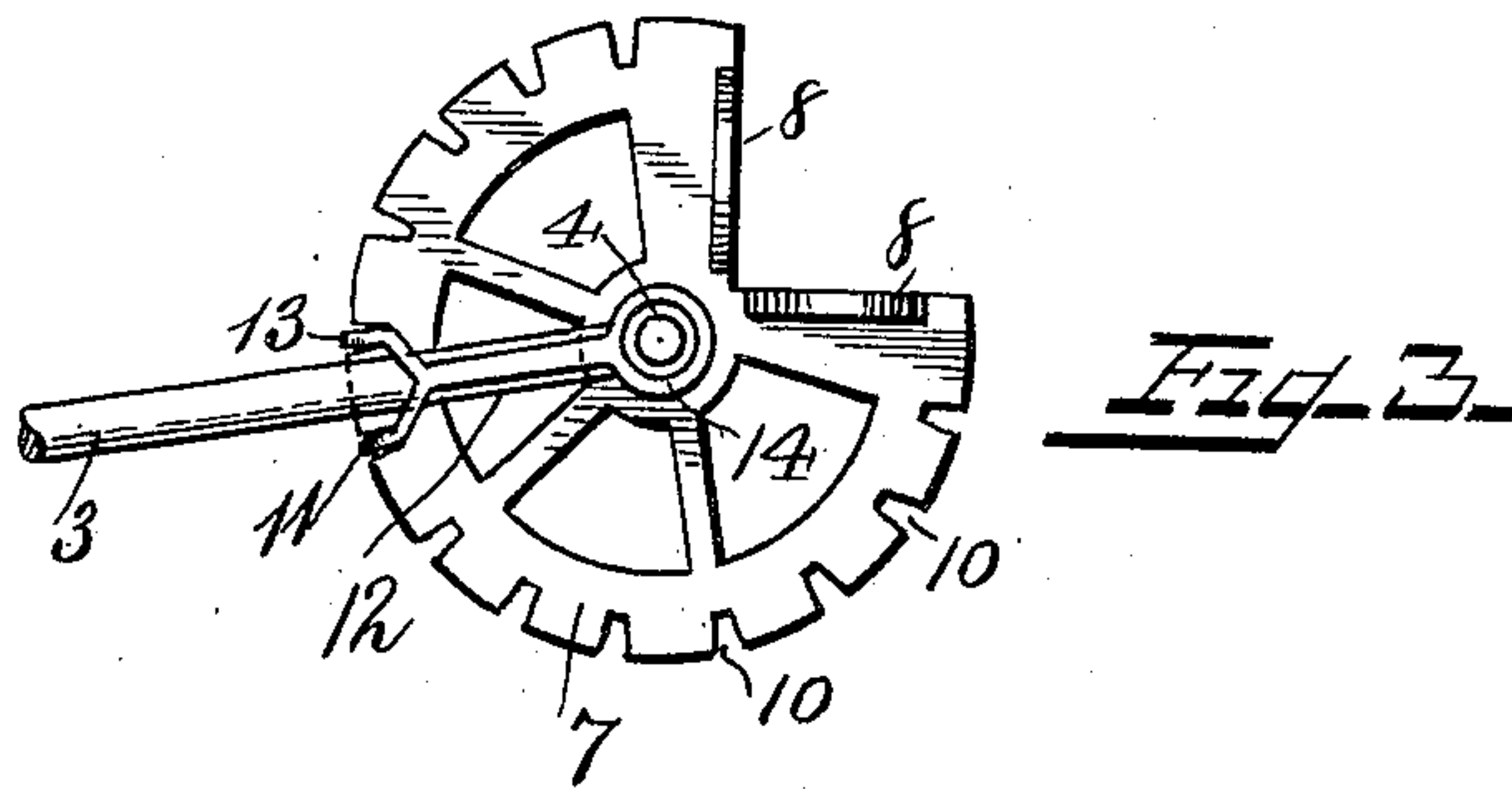
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

WILLIAM S. MORGAN, OF MINNEAPOLIS, MINNESOTA.

CLOTHES-DRIER.

No. 845,248.

Specification of Letters Patent.

Patented Feb. 26, 1907.

Application filed April 23, 1906. Serial No. 313,313.

To all whom it may concern:

Be it known that I, WILLIAM S. MORGAN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Clothes-Driers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an improved clothes-drier adapted for attachment to the side or corner of a building, a balcony-post, or other suitable support.

The object of the invention is to provide a simple, durable, and comparatively inexpensive device of this character which may be conveniently handled and adjusted and which will be well adapted for the purpose intended.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved clothes-drier, showing the application of the same to a balcony-post. Fig. 2 is a top plan view of the same. Fig. 3 is a detail horizontal sectional view, on an enlarged scale, taken on the plane indicated by the line 3-3 in Fig. 1. Fig. 4 is a plan view of a slightly-modified form of the rack-plate shown in Fig. 3, this form being adapted for attachment to the side wall of a building. Fig. 5 is a perspective view of the adjustable and swivel connection between the clothes-reel and its supporting-frame, and Fig. 6 is a vertical sectional view through the parts shown in Fig. 5.

Referring to the drawings by numeral, 1 denotes a clothes-supporting reel revolubly mounted upon the lower end of a depending vertically-swinging hanger-bar 2, which has a swivel connection with a supporting-arm 3, the latter being adjustable angularly in a horizontal plane upon an upright 4, which, as shown in Fig. 1, is mounted upon a balcony-post P, but which may be mounted upon any other suitable support. The upright 4 has its lower end revolubly supported in a bearing-bracket 5, and its upper end projects through a bearing-bracket 6, said brackets being secured by screws or other fastening means to a post, the corner of a

building, or a flat support, and they are shaped to fit the surface upon which they are secured. The upright 4 also extends through a central opening formed in a rack-plate 7, which is of substantially circular form and, as shown in Figs. 2 and 3, has right-angularly disposed attaching-flanges 8, apertured to receive screws or the like which attach it to the post P or the corner of the building.

When the device is to be attached to the side wall of a building or to a flat surface or support, the plate 7 is constructed as shown in Fig. 4 and has its attaching-flanges 9 in the same plane, so that they may bear upon a flat surface. The edge or periphery of this horizontally-disposed plate 7 is formed with notches 10 to receive a swinging locking dog or pawl 11, by means of which the arm 3 is retained in an adjusted angular position. Said arm 3 has at its inner end a T-coupling 12, which is disposed upon the upright 4 above the plate 7, and it extends through a bifurcated portion 13 of the locking dog or lever 11, which portion is adapted to enter the notches 10 in the plate 7. The upper end of the dog or lever 11 is formed with a loop 14, which surrounds the upright 4 loosely, so that the dog or lever may be swung upwardly to disengage its portion 13 from the notches 10. The lower bent end 15 of the dog or lever is connected by a link 16 to a hand-lever 17, pivoted at 18 in a band or clip 19, which is clamped upon the lower portion of the upright 4. It will be seen that when the lever 17 is swung upwardly the locking dog or lever 11 will be elevated and disengaged from the notches 10 in the plate 7, so that by swinging the hand-lever 17 in either direction the reel and its supporting-frame formed by the arm 3 and upright 4 may be swung in a horizontal plane. By swinging said lever downwardly and permitting the portions 13 of the dog or lever 11 to drop into two of the notches 10 the frame will be retained in any desired angular position. The outer end of the arm 3 is supported by a brace-rod 20, which has its upper end hooked, as at 21, into the upper projecting end of the upright 4 and its lower end passed through said arm and screw-threaded to receive a nut 22.

The reel 1 comprises a plurality of arms 23, connected together at their outer ends by cords or wires 24 and having their lower inner ends pivotally mounted in a rotary head

or plate 25, which is engaged with the enlarged lower end 26 of the vertical hanger rod or bar 2. Slidably and rotatably mounted upon the latter is an upper head or plate 5 27, which is pivotally connected, by means of brace-rods 28, to the arms 23, so that the latter are supported, as shown in Fig. 1, when the reel is in its open position. By making the head 27 slidable upon the hanger-bar 2 10 the reel may be collapsed or folded by sliding the head 27 downwardly toward the head 25 and swinging the arms 23 upwardly toward each other, as will be readily understood. The hanger-bar 2 has an adjustable connection with a head 29, which is swiveled upon 15 the outer end of the arm 3. This head 29 is in the form of a T-coupling, through the bore in the alining branches 30 of which the hanger-bar 2 projects, and into the bore or 20 opening in its other branch 31 projects the end of the arm 3. At the inner end of the branch 31 is formed an annular rib or flange which is engaged by a hook-plate 32, secured upon the top of the arm 3 by the brace-rod 25 20, which passes through it. This hook-plate 32 retains the head 29 upon the arm 3, but permits it to rotate freely thereon.

The adjustable connection between the hanger-bar 2 and the portion 30 of the head 29 is effected by providing at suitable intervals in said bar transverse pins or studs 33 and 30 by forming in the bore of the portion 30 a longitudinal groove 34 and in the top or upper edge of said portion 30 a transverse notch or 35 recess 35. The series of pins or studs 33 on the bar 2 are in longitudinal alinement, so that said bar may be moved vertically in the head 29 by passing the pins or studs through the groove 34. When it is desired to retain 40 the bar 2 at an adjusted elevation, it is rotated in the head 29 to cause the pin or stud 33, which is above said head, to enter the notch or recess 35. A hanger-bar 2 may be thus quickly adjusted vertically in the

head 29 to vary the height or elevation of 4 the reel.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages 50 of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the 55 principle or sacrificing any of the advantages of the invention as defined by the appended claims.

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

1. In a device of the character described, bearing - brackets, an upright revolutely mounted therein, a rack-plate concentric 65 with said upright, a reel-supporting arm projecting from said upright, a locking-dog loosely connected with said upright and its arm and adapted to engage said rack-teeth, a lever pivoted upon said upright, and a connection between said lever and said locking- 70 dog.

2. In a device of the character described, an upright, an arm projecting therefrom, a reel-supporting head rotatably 75 mounted upon said arm and formed with an annular flange, a hook-plate upon said arm and engaged with said flange, and a bracing and fastening rod having its upper end engaged with said upright and its lower end 80 passed through said plate and said arm, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM S. MORGAN.

Witnesses:

HORACE A. SHAW,
C. H. COLGROVE.