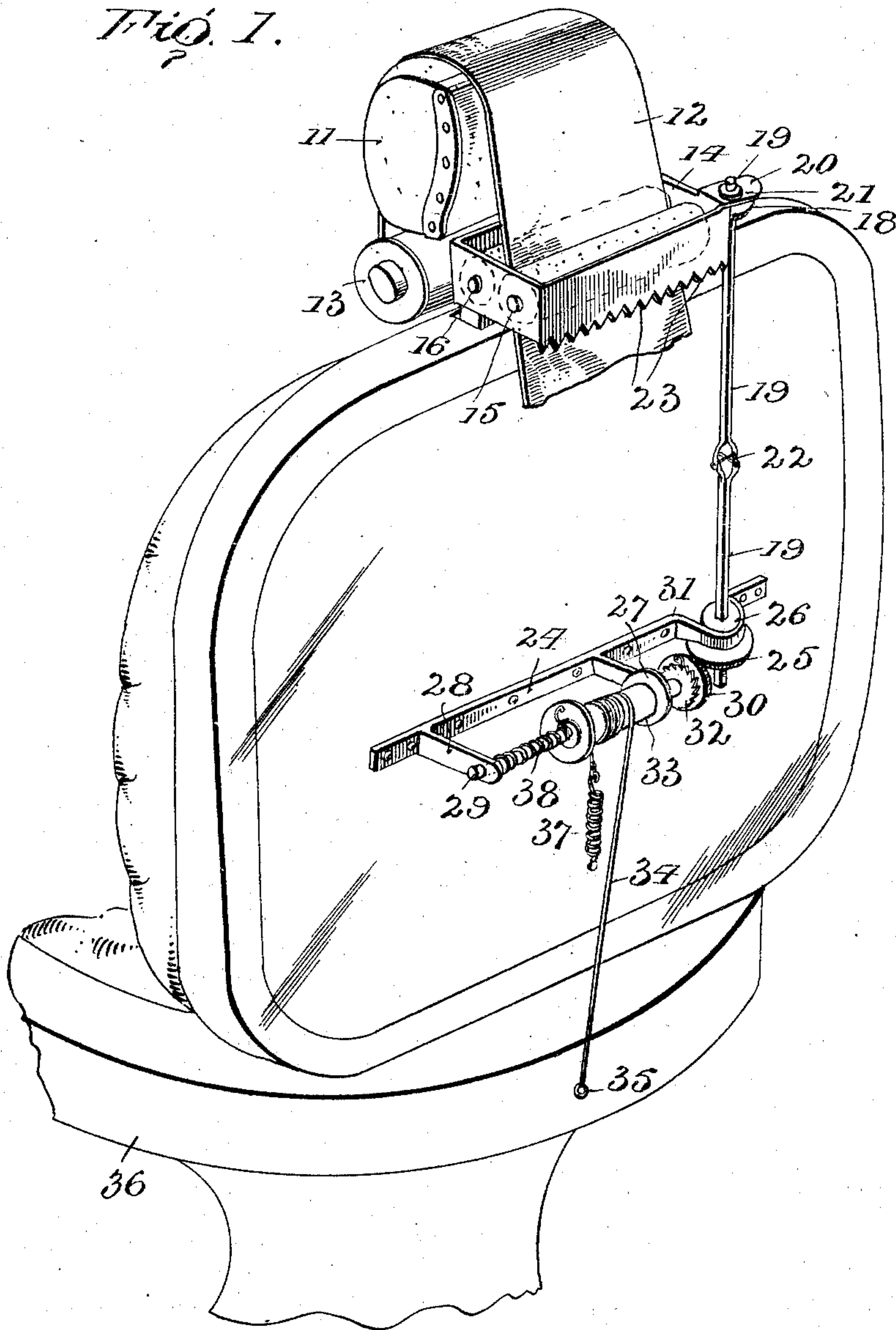


D. B. BROWN.
PAPER ACTUATING DEVICE FOR BARBERS' CHAIRS.
APPLICATION FILED MAR. 3, 1909.

928,243.

Patented July 20, 1909.

2 SHEETS—SHEET 1.



Inventor

D. B. Brown

Witnesses

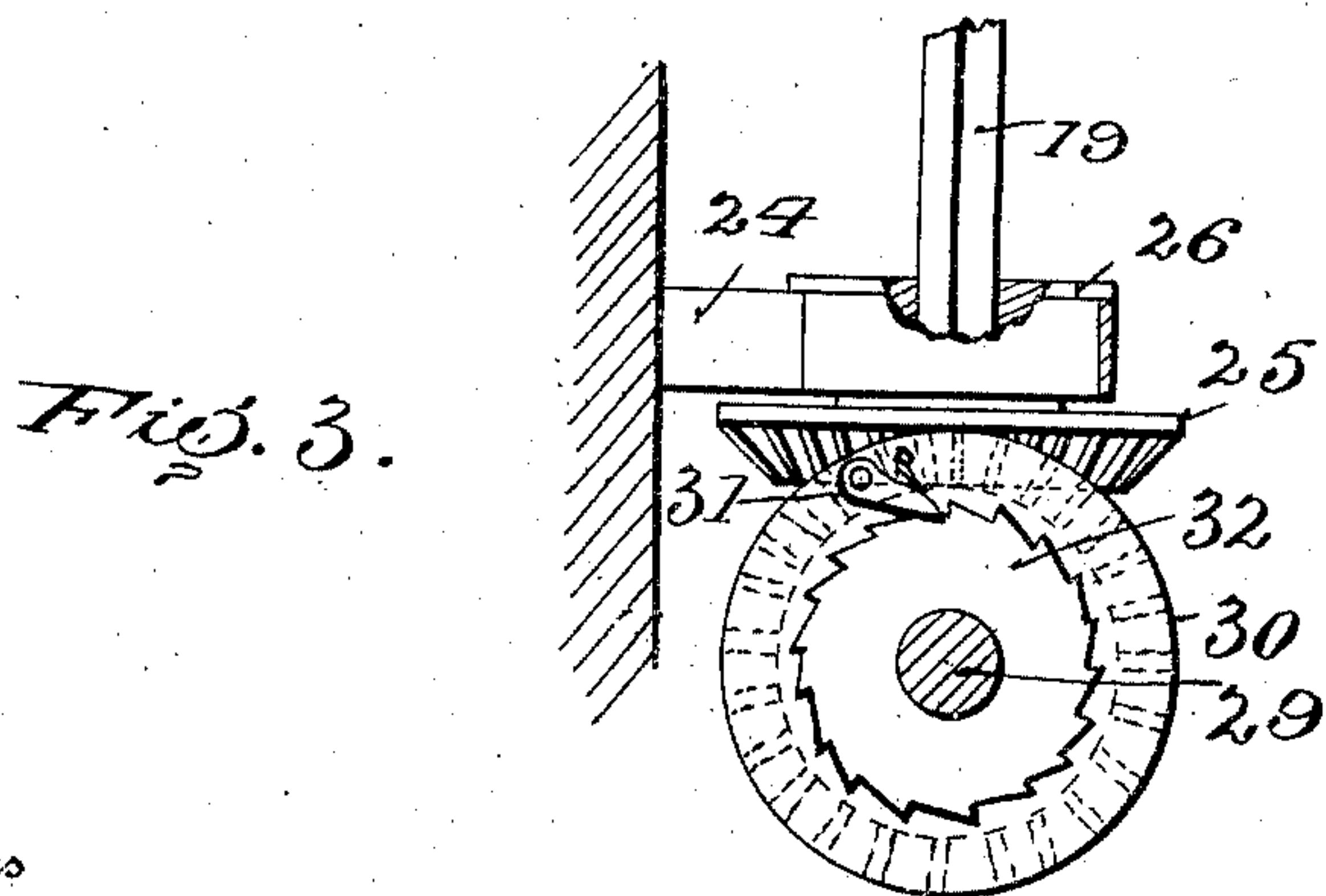
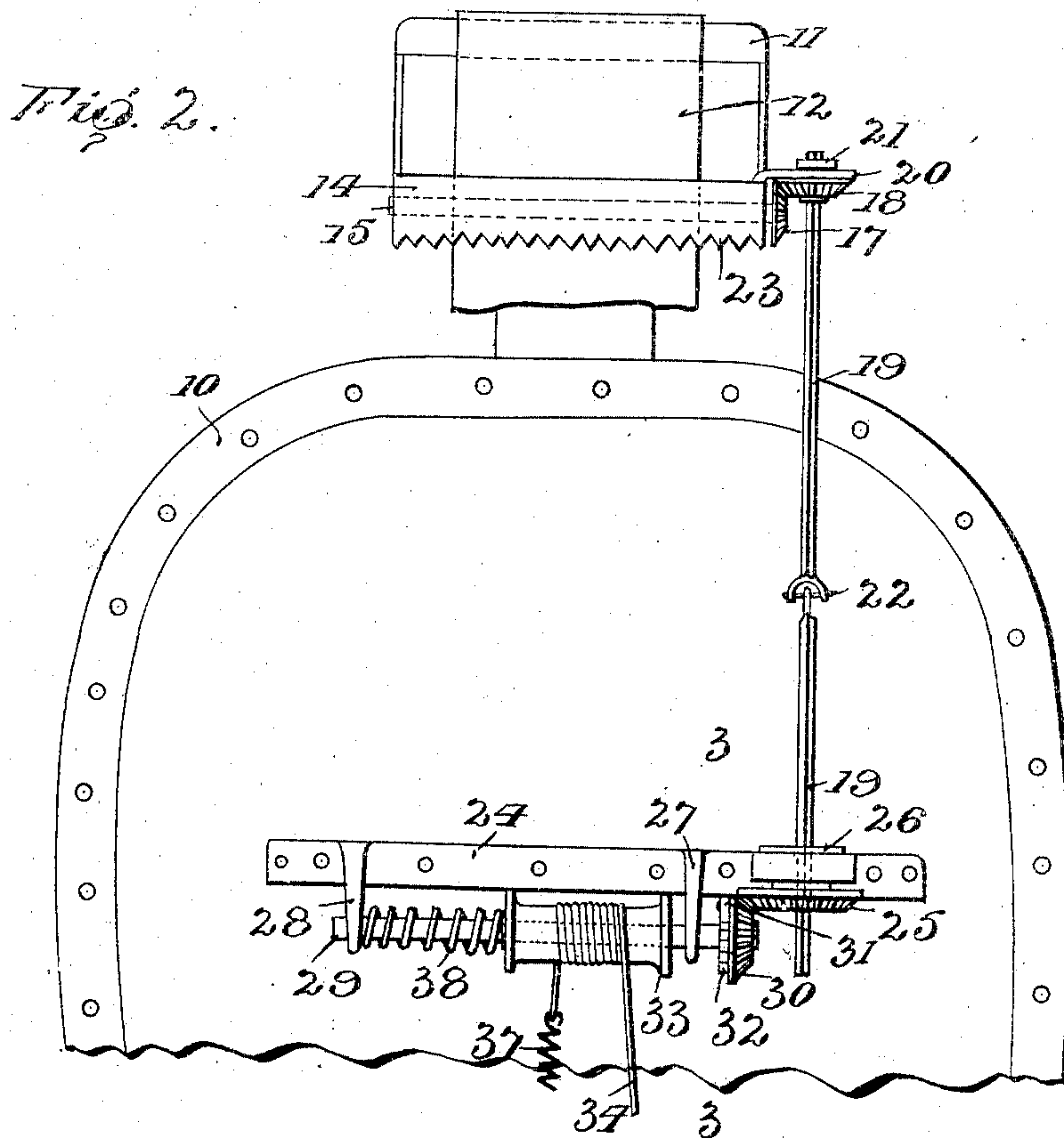
J. M. Minn
W. A. Hoodorn

By

W. A. Lacey, Attorneys

928,243.

2 SHEETS—SHEET 2.



Inventor

N. B. Brown

Witnesses

W. K. Woodson

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W. A. Racy, Attorneys

UNITED STATES PATENT OFFICE.

DAVID B. BROWN, OF BELLINGHAM, WASHINGTON.

PAPER-ACTUATING DEVICE FOR BARBERS' CHAIRS.

No. 928,243.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed March 3, 1909. Serial No. 481,010.

To all whom it may concern:

Be it known that I, DAVID B. BROWN, citizen of the United States, residing at Bellingham, in the county of Whatcom and State of Washington, have invented certain new and useful improvements in Paper-Actuating Devices for Barber-Chairs, of which the following is a specification.

This invention relates to chairs and has particular reference to a sanitary attachment to be applied to barbers' chairs.

An object of this invention is to provide means for automatically furnishing a strip of paper upon the head-rest of chairs of this nature for each customer and of providing means for admitting of the tearing off of the portion of paper last used for the reception of lather during the shaving of the occupant within the chair.

The invention has for another object the provision of a simple device which actuates a pair of rollers disposed upon the back of a chair to draw the paper over the head-rest from the cylindrical casing in common use, which is positioned upon the front of the head-rest immediately beneath the same and which is adapted to draw a predetermined amount of the paper over the head-rest.

The invention further provides a device of this character which is adapted for operation upon the reciprocation of the back of the chair and one which is adapted for detachment from the chair when the head-rest is removed.

The invention still further aims the provision of a device of this nature which may be applied to chairs of common construction and which do not necessitate any peculiar formation of the parts of the same but which is adaptable for operative relation by simply securing the several parts of the device upon the chair by screws or bolts of common construction.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which,

Figure 1 is a perspective view of the rear of a barber's chair disclosing the back in a raised position and having the improved device applied thereto. Fig. 2 is a rear elevation of the back of a barber's chair having the device attached thereto, and Fig. 3 is a detailed sectional view of the pawl and

ratchet mechanism in conjunction with the detachable shaft and gears employed in the device.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numeral 10 designates the back of a barber's chair which is provided with an adjustable head-rest 11 over which is adapted to be passed a strip of paper 12. The paper 12 is mounted in a cylinder 13 positioned immediately beneath the head-rest 11 at the forward edge thereof and is passed upwardly over the head-rest 11 and depended rearwardly from the same. The back 10 is provided with a frame 14 of any adaptable construction in which are disposed a pair of rollers 15 and 16. The rollers are preferably provided with milled surfaces between which the strip of paper 12 is adapted to be frictionally engaged. The roller 15 is provided upon its outer extremity with a beveled pinion 17 which is adapted to be meshed with a beveled gear 18 which is disposed upon a shaft 19 vertically positioned and depended from the frame 14 at one end thereof. The frame 14 is positioned immediately beneath the head-rest 11 and is supported thereby so that it may be removed from the chair upon the detachment of the head-rest 11. The shaft 19 is carried by the frame 14 by means of passing the upper extremity of the shaft through a projection 20 of the frame 14 and securing the shaft 19 rotatably in such position by means of an adjustable collar 21 mounted upon the upper extremity of the shaft 19 and serving the purpose of preventing the shaft from sliding downwardly through the projection 20. The shaft 19 is provided intermediate of its length with a universal joint 22 for the purpose of admitting of the angular adjustment of the shaft 19 to conform to the adjustments of the head-rest 11. The frame 14 is provided upon its rear edge with a series of teeth 23 against which the strip of paper 12 is adapted to be engaged for the purpose of tearing off portions of the same which are depended from the rollers 15 and 16.

The back 10 is provided with a bracket 24 which carries a beveled gear 25 which is provided with a flanged collar 26 for rota-

table engagement within the bracket 24 to support the gear 25 in a horizontal plane. The gear 25 and flanged collar 26 are preferably integrally formed and are provided centrally with a rectangular aperture to slidably engage the lower extremity of the shaft 19 which is formed rectangularly in cross-section. The bracket 24 is also provided with arms 27 and 28 which extend rearwardly therefrom and support a horizontally disposed shaft 29. The shaft 29 is provided with a beveled gear 30 which is meshed with the gear 25 and which is loosely disposed upon the inner extremity of the same and which is provided with a spring actuated pawl 31 to cooperate with a ratchet 32 rigidly mounted upon the shaft 29 adjacent the outer face of the beveled gear 30 to actuate the gear 30 upon the rotation of the shaft 29 in one direction. The shaft 29 is provided with a drum 33 about which is coiled a cord or strap 34 having one extremity extended downwardly and engaged with a hook 35 disposed upon the rear edge of the seat 36 of the chair. The opposite extremity of the cord 34 is engaged with the upper end of a coil spring 37 which is rigidly secured at its opposite extremity to the back 10 of the chair at a point beneath the drum 33. For the purpose of insuring the positive rotation of the drum 33 the shaft 29 is provided with a torsional spring 38 which is disposed thereabout and is secured at its inner extremity to one end of the drum 33 while its opposite extremity is pivotally attached to the arm 28 of the bracket 24.

The operation of the device is as follows:—When the back 10 is swung forwardly the cord 34 is drawn taut at its outer extremity and the spring 37 in conjunction with the spring 38 is placed under tension by the rotation of the drum 33 in order to tighten the cord 34. When the chair back 10 is returned to its downward position the cord 34 is relaxed from the hook 35 and permits the rotation of the drum 33, shaft 29, ratchet 32 and the gear 30 through the medium of the pawl 31, thereby actuating the gear 25 and shaft 19. This rotation of the shaft 19 causes the pinion 17 to be rotated through the operation of the beveled gear 18, thus producing the rotation of the rollers 15 and 16 and thereby feeding a new portion of paper from the cylinder 13 upon the head-rest 11. The barber is now permitted to grasp the depended extremity of the paper strip 12 and to draw the same backwardly against the teeth 23 when the same may be conveniently torn from the strip 12 and used for lather purposes. This action is repeated upon each operation of the chair back 10 and it is thus seen that each customer will be supplied with a new portion of paper upon the head-rest.

This device may be applied to dentist's

or other chairs of a like nature where it is desired to incorporate a sanitary device which is automatic in operation.

Having thus described the invention, what is claimed as new is:—

1. A device as specified comprising a frame disposed upon the head-rest of a chair, rollers mounted in said frame for frictional engagement with a strip of paper carried by the head-rest, a pinion carried by one of said rollers, a shaft depended from said frame, a beveled gear disposed on said shaft and meshed with said pinion, a universal joint intermediately positioned on said shaft, a bracket carried upon the rear face of the back of the chair, a gear rotatably carried on said bracket and detachably engaged with said shaft, a horizontal shaft mounted on said bracket, a beveled gear loosely disposed on said shaft and meshed with said gear on said bracket, a pawl and ratchet mechanism disposed between said last gear and said shaft for rotating said last gear in one direction, a drum carried by said shaft and means disposed on said drum for rotating the same to actuate said gears and said rollers.

2. A device as specified comprising a pair of rollers disposed upon the head-rest of a chair and engaged with a strip of paper slidably positioned over the head-rest, a shaft carried by said head-rest and connected to said rollers for actuating the same, a bracket carried by the back of the back of the chair, gears mounted on said bracket and detachably engaged with the lower extremity of said shaft, a drum carried by said bracket and connected to said gears on said bracket, a cord coiled about said drum having one extremity secured to the seat of the chair, a spring carried by said back connected to the opposite extremity of said cord and a torsional spring rigidly mounted at its opposite extremities to said drum and said bracket respectively.

3. In a device of the class described, the combination with a chair and a head-rest adjustably positioned upon the same of a pair of rollers carried by said head-rest for engagement with the end of a strip of paper slidably carried over said head-rest, a shaft carried by said head-rest, gears disposed between said shaft and said rollers for transmitting motion between the same, a bracket carried by the back of said chair, gears carried by said bracket and detachably engaged with said shaft, a horizontal shaft mounted on said bracket and connected to said gears on said bracket, a drum carried by said horizontal shaft, a cord disposed on said drum secured at one extremity to the seat of said chair, a coil spring secured to the opposite extremity of said cord and carried by the back of said chair and a torsional spring disposed on said horizontal

shaft and connected at its opposite extremities to said drum and to said bracket respectively.

4. In a device of the character described,
5 the combination with a chair and a head-rest for the same of a pair of rollers mounted upon said head-rest for engagement with a strip of paper disposed over said head-rest, a shaft depended from said head-rest and
10 connected to said rollers for actuating the same, gears carried by the back of the chair

detachably engaged with said shaft to rotate the same and means connected between the back of said chair and the seat of said chair for actuating said gears to operate the 15 device.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID B. BROWN. [L. s.]

Witnesses:

A. C. DURHAM,
D. C. LEWIS.