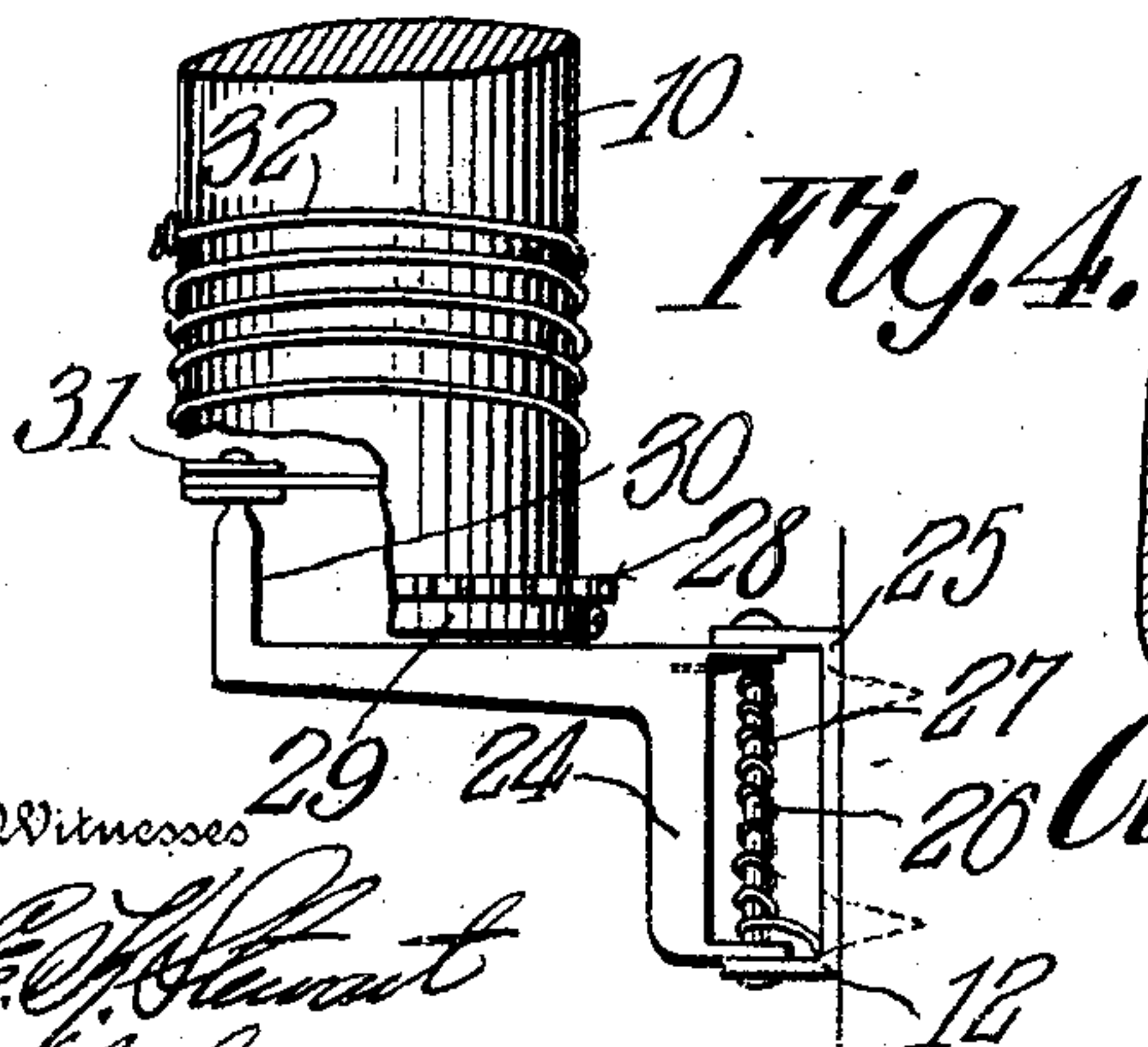
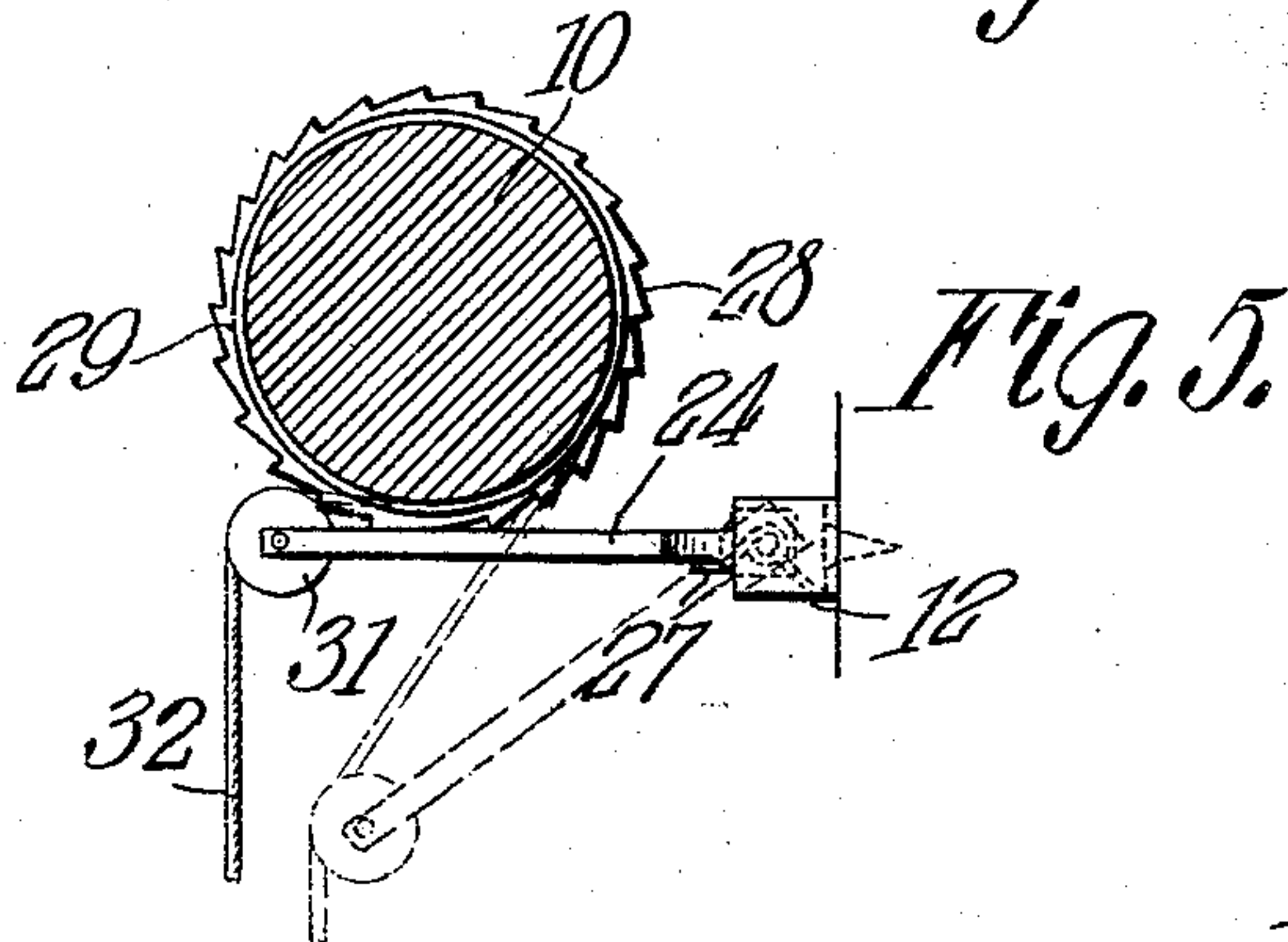
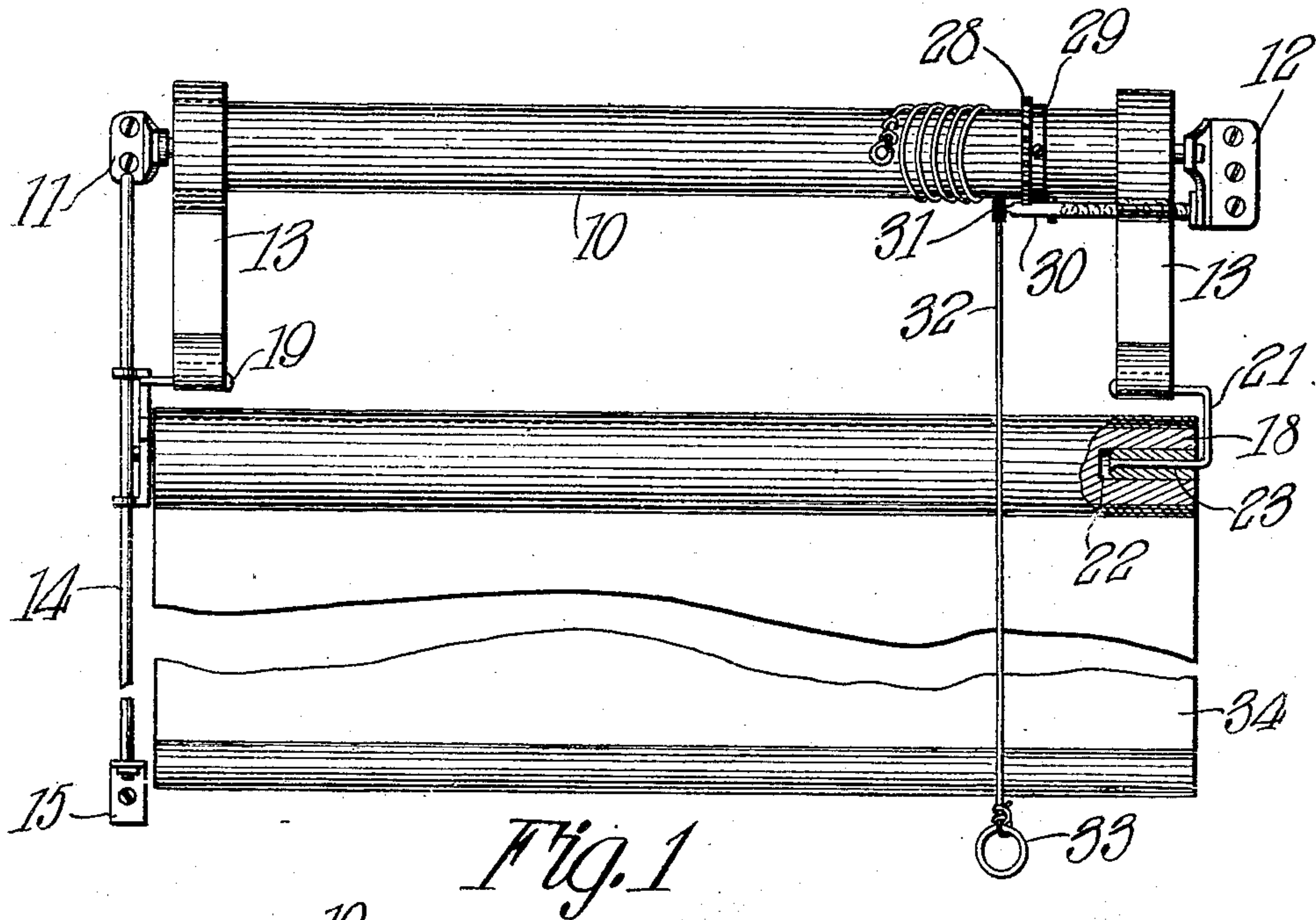


C. M. EVELETH.
SHADE ROLLER.
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915,166.

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UNITED STATES PATENT OFFICE.

CLARENCE M. EVELETH, OF RIVER FOREST, ILLINOIS.

SHADE-ROLLER.

No. 915,166.

Specification of Letters Patent.

Patented March 16, 1909.

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To all whom it may concern:

Be it known that I, CLARENCE M. EVELETH, a citizen of the United States, residing at River Forest, in the county of Cook and State of Illinois, have invented a new and useful Shade-Roller, of which the following is a specification.

This device relates in general to curtain fixtures, and more specially to those fixtures in which a curtain is mounted on a roller capable of being moved from one point to another in the direction of winding of the curtain, so that the same may be made to cover all or any portion of a window.

The object of the invention is to provide an improved form of device of the character specified in which the curtain supporting roller shall be in turn supported by a second roller of the usual spring operated type.

The invention consists of an ordinary spring shade roller having certain fittings thereon provided with bands arranged to support a second roller preferably of the spring actuated type.

The invention further consists in certain novel features of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

In the accompanying drawings:—Figure 1 is a front view of the shade hung in accordance with this invention. Fig. 2 is a side elevation showing the method of supporting one end of the shade carrying roller. Fig. 3 shows a method of supporting the opposite end thereof. Fig. 4 is an enlarged detail showing a plan of the detent for the supporting roller. Fig. 5 shows an elevation of the same.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The numeral 10 indicates a shade roller of ordinary spring operated type, supported at one end by a bracket 11, and at the opposite end by a bracket 12. One of the brackets is slotted in the usual manner, the other being provided with the ordinary opening for the pintle of the roller.

Held upon the roller 10 and arranged to be wound thereon as the roller is rotated by the spring, are bands 13. These bands are preferably made of any flexible material, such as what is known as metallic tape or

the like. From the bracket 11 extends a guide 14 being secured at its lower end to the bracket 15. This guide is preferably made of wire, though other material may be used as may be seen fit.

Mounted upon the guide 14 is a sliding bracket 16 provided with a slot 17 to receive the end of the spring rod of a roller 18, this rod being of the usual flattened form. The bracket 16 is provided with an arm 19 to which is attached a band 13. At the opposite end of the roller is provided a bracket 20 attached to the band 13, as shown in Fig. 3, or, where it is desired that the shade run between the jambs of a window, there is provided a special form of bracket 21, as shown in Fig. 1, this being the preferred form. It will be noted that in this form the end of the roller 18 is bored out, as at 22, to receive a bushing 23, and that the bracket 21 consists of a round rod bent to U shape and provided with suitable heads, as clearly shown in Fig. 1.

Rotatably mounted on the bracket 12 is a pawl 24 supported by a suitable bracket 25 at the opposite end, the support preferably consisting of a rod 26. A spring 27 is held on said rod to normally press the pawl in the direction of the roller 10. Mounted upon the roller 10 is a toothed ring 28 which is preferably provided with a flange 29 for the purpose of securing it to the roller. The pawl 24 is provided with an arm 30 extending across the toothed ring 28, the teeth on the ring being so arranged as to prevent the unwinding of the roller when the pawl is held pressed against them, and to permit winding up on the roller whether the pawl be pressed against them or not.

Carried on the outer end of the arm 30 is a cord guiding means 31, which is here shown in the form of a small roller, that being the preferred construction. Attached to the roller 10 adjacent the toothed ring 28 is a flexible cord 32 arranged to be wound on the roller in the same direction as the bands 13. The cord 32 passes over the guide 31 and is provided with a suitable handle or ring 33 for the purpose of actuating the same. It will be observed that the position of the pawl is such that when the handle 33 is pulled, the pawl will be forced down to a position indicated by the dotted lines in Fig. 15, and that when in this position, the toothed wheel 28 is released and further pulling on the cord will cause the roller 10 to unwind and thus per-

mit the roller 18 to be spaced further from the roller 10. Upon this lower roller is mounted a suitable window shade 34.

When it is wished to move the roller 18 to any desired position, the same may be accomplished, as set forth above, by simply pulling on the cord 32 if that position is below the one at which the roller 18 stands at the time, or if a higher position is desired by pulling the cord 32 and relaxing the same as is usual in the operation of a spring window shade.

The lower roller is operated in the manner usual to spring window shades after it has been placed in the desired position.

It is found in practice that the spring in the upper roller could not be depended upon to hold the lower roller in position when the latter is unwound, and to this end I have designed special features of the device in such way as to positively lock the upper roller while the shade 34 is being operated. It will, of course, be obvious that the upper roller is to carry a greater weight than the lower roller, and the spring in the roller 10 is therefore placed under greater tension when the device is erected than the spring in roller 18. It will be further obvious that this device may be applied to the ordinary shade roller with very little trouble and expense, and there is thus provided a cheap and efficacious article of the character described.

What is claimed is:—

1. In a device of the character described, a fixedly supported spring roller, bands held to

be wound thereon, a shade carrying roller carried by said bands, a ratchet wheel mounted on said first roller, a spring actuated pawl held to coact therewith and prevent said roller from unwinding, a guide roller held upon the outer end of said pawl and a cord held to be wound on said fixedly supported roller in the same direction as the bands and arranged to pass over said guide roller and release the pawl and rotate the roller against the spring.

2. In a device of the character described, a fixedly supported spring roller, bands held to be wound thereon, a guide, a roller bracket attached to one of said bands moving on said guide, a second bracket attached to the second band, a shade carrying spring roller held in said brackets, a ratchet wheel mounted on said first roller, a spring actuated pawl held to coact therewith and prevent said roller from unwinding, a guide roller carried upon the outer end of said pawl and a cord held to be wound on said fixedly supported roller in the same direction as the bands and arranged to pass over said guide roller and release the pawl and rotate the roller against the spring.

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

CLARENCE M. EVELETH.

Witnesses:

PHILIP PHILLIP,
ETTA F. HUGHES.