No. 733,936. PATENTED JULY 21, 1903.

J. BARRETT.

TENSION DEVICE.

APPLICATION FILED SEPT. 25, 1902.

NO MODEL.

Fig. 1.

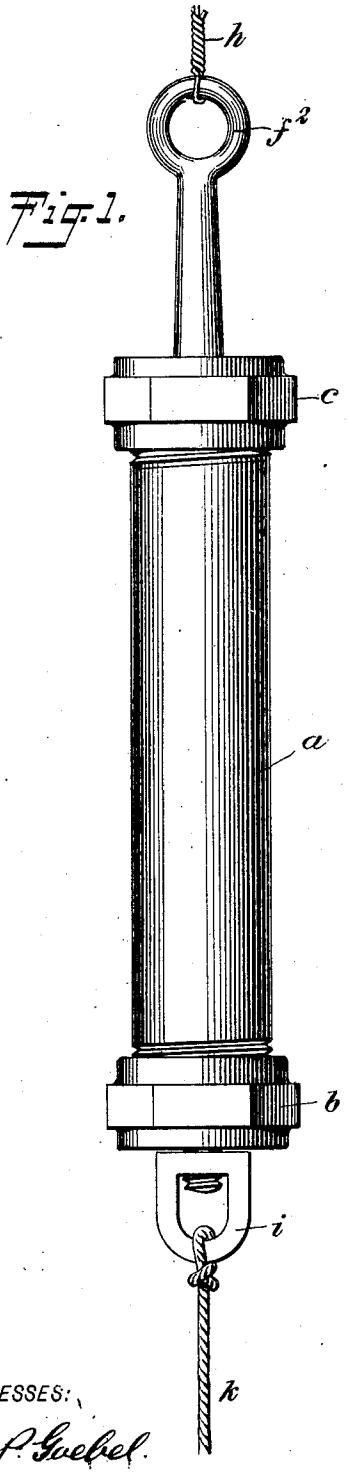
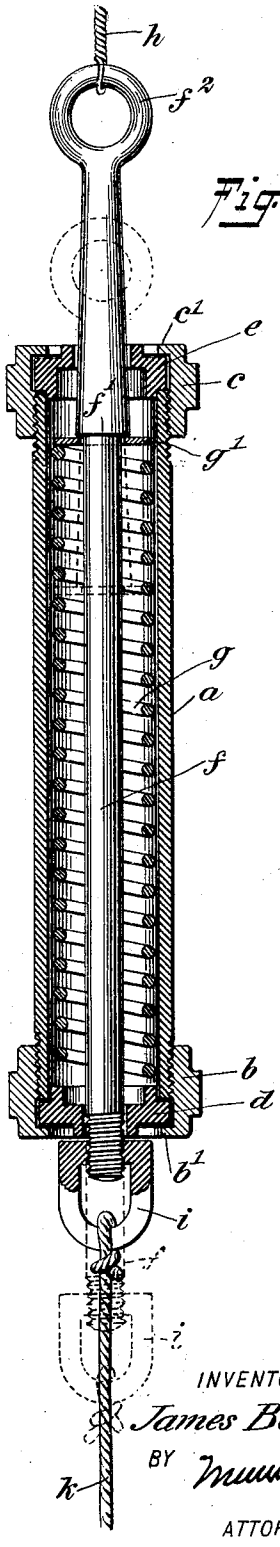


Fig. 2.



WITNESSES:

William P. Goebel.

Isaac B. Owens.

INVENTOR

James Barrett

BY Munn & Co

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 733,936. Patented July 21, 1903.

UNITED STATES PATENT OFFICE.

JAMES BARRETT, OF TOMBSTONE, ARIZONA TERRITORY.

TENSION DEVICE.

SPECIFICATION forming part of Letters Patent No. 733,936, dated July 21, 1903.

Application filed September 25, 1902. Serial No. 124,781. (No model.)

To all whom it may concern:

Be it known that I, JAMES BARRETT, a citizen of the United States, and a resident of Tombstone, in the county of Cochise and Territory of Arizona, have invented a new and Improved Tension Device, of which the following is a full, clear, and exact description.

This invention relates to a device for operating bell-cords and all other flexible connections to whistles, trip devices, and like instruments where a signal or impulse is to be transmitted.

It comprises certain novel features of construction, which will be fully described hereinafter.

This specification is an exact description of one example of my invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is an exterior view of the invention, and Fig. 2 is a longitudinal section thereof.

The device comprises a cylindrical or tubular casing *a*, at the ends of which are respectively arranged screw-caps *b* and *c*, each cap being formed with an inwardly-projecting flange *b'* and *c'*. These caps *b* and *c* inclose collars, (designated *d* and *e*, respectively,) such collars being held tightly between the flanges *b'* and *c'* and the respectively adjacent ends of the tubular body *a*.

f indicates the rod, which is run through the collars *d* and *e* and which has its upper portion formed with a shoulder *f'*, against which bears a washer *g'*, this washer being engaged by the adjacent end of an expansive spiral spring *g*, which is located in the tubular body *a* and bears at its other end against the collar *d*. The rod *f* is projected upward beyond the collar *e* and has its upper end formed with an eye f^2, to which is connected a cord *h*, such cord passing to the bell, signal, or other device to be operated. The lower extremity of the rod *f* is threaded and has a shackle *i* screwed thereon, and with this shackle is engaged the pull-cord *k*.

When the cord *k* is drawn down, assuming that the body *a* be held stationary, the rod *f* will be moved with the cord *k* and the spring *g* will be compressed. This also carries down the cord *h*. When the cord *k* is released, the spring *g* asserts itself and returns the parts to their normal position. After the proper adjustment has been secured the spring *g* keeps the cord *h* at proper tension and insures the quick and certain action thereof. It also promptly returns the pull-cord *k* and enables a number of rapidly successive pulls to be made, owing to the prompt return of the pull-cord by the action of the spring.

Various changes in the form and details of my invention may be resorted to at will without departing from the spirit of my invention. Hence I consider myself entitled to all forms of the invention as may lie within the intent of my claims.

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

1. The combination of a tubular body, a cap fastened to each end thereof, said caps having inwardly-projecting flanges at their outer ends, collars inclosed by the caps and engaged by the flanges thereof to hold the collars in place, a rod projected loosely through the collars and adapted to have cords connected with its ends, and a spring contained in the casing and pressing the rod, for the purpose specified.

2. The combination of a tubular body, a cap fastened to each end thereof, said caps having inwardly-projecting flanges at their outer ends, collars inclosed by the caps and engaged by the flanges thereof to hold the collars in place, a rod projected loosely through the collars and adapted to have cords connected with its ends, a spring contained in the casing and pressing the rod, for the purpose specified, the said rod having a shoulder thereon, and a washer engaging said shoulder and pressed by the spring.

3. The combination of a tubular body, a cap fastened to one end thereof, said cap having an inwardly-projecting flange, a collar inclosed by the cap and engaged by the

flange to hold the collar in place, a rod projected loosely through the collar and adapted to have cords connected with its ends, a spring contained in the casing and pressing the rod, and means at the end of the casing opposite the said cap, for confining the spring at said end.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES BARRETT.

Witnesses:
JAMES MARRS,
A. WENTWORTH.