

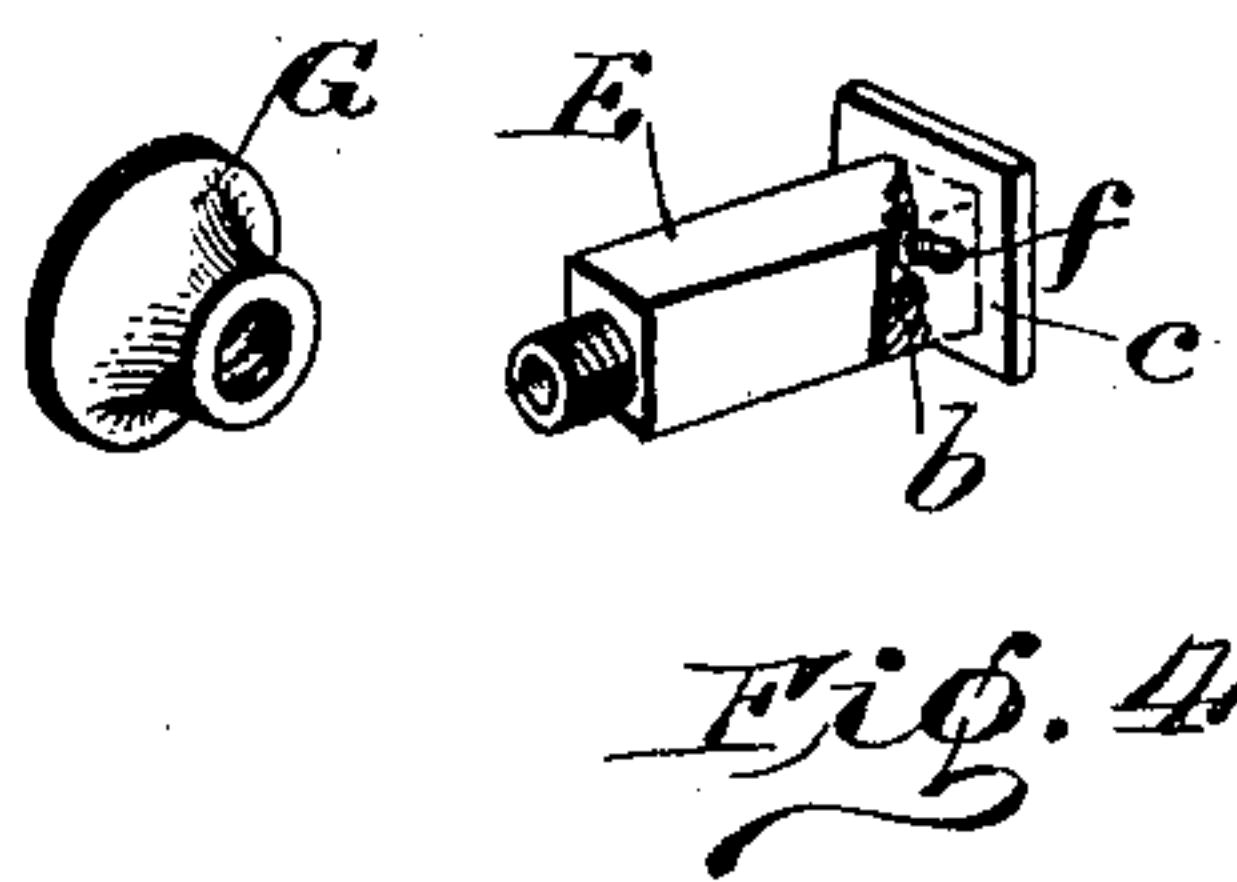
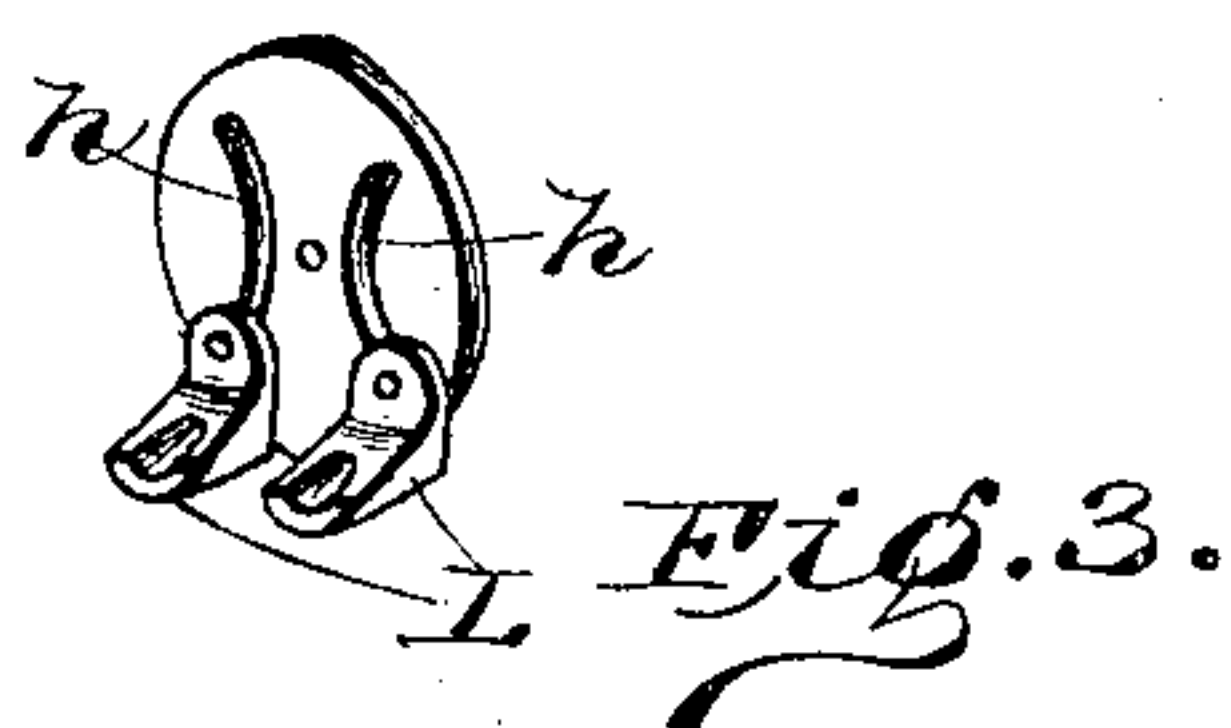
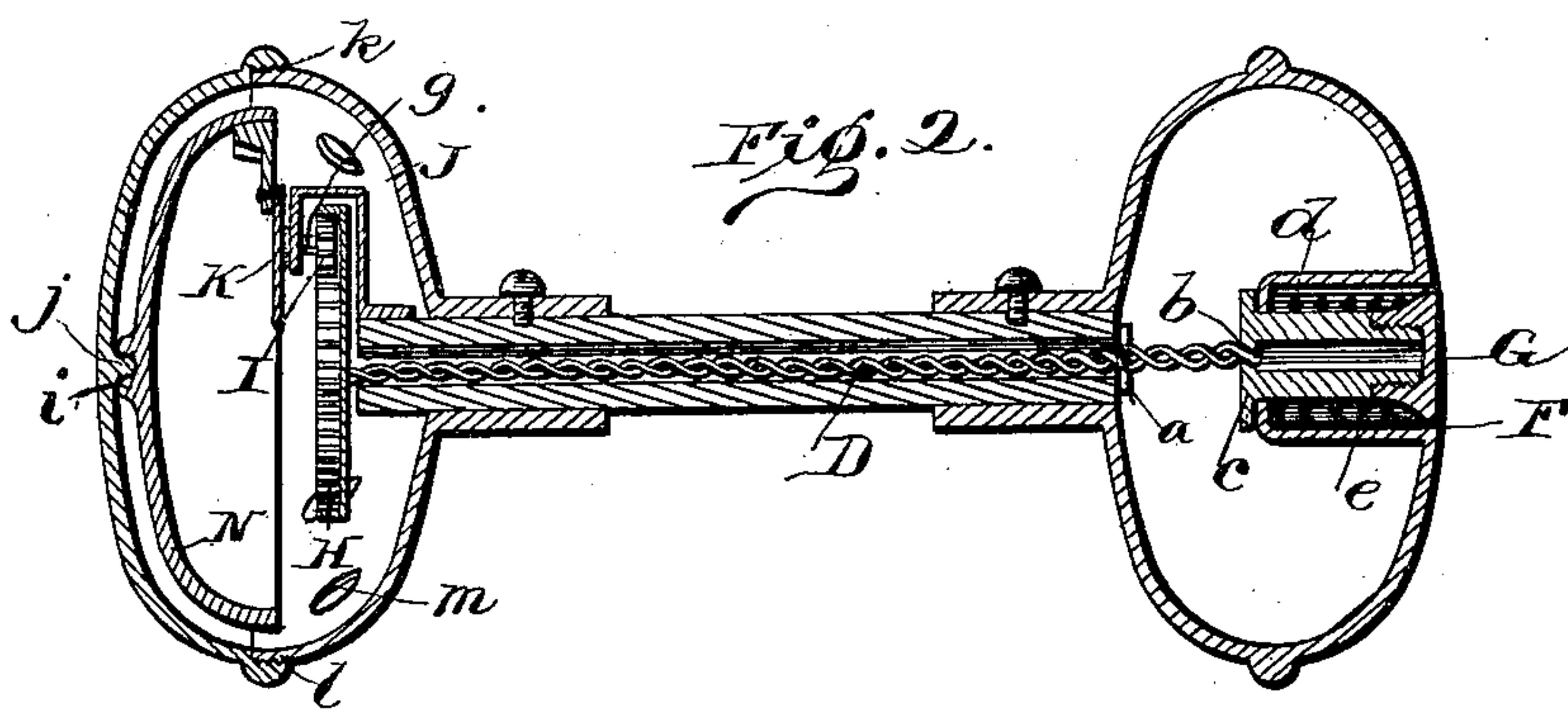
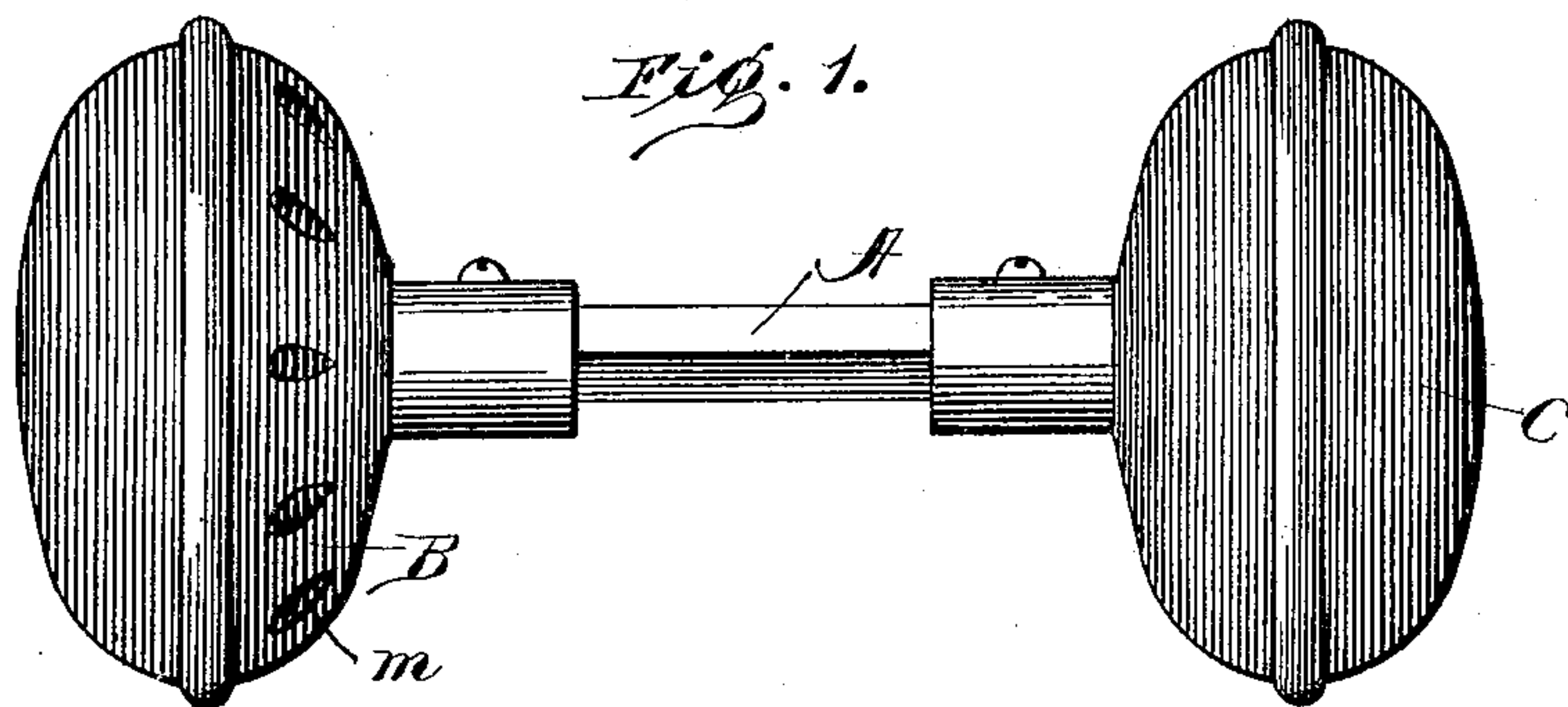
No. 627,956.

Patented June 27, 1899.

B. F. FLOWERS.  
COMBINATION DOOR KNOB AND BELL.

(Application filed July 23, 1898.)

(No Model.)



Witnesses:

B. M. W. Lutz

Rudolph B. Schuchter

Inventor:

Benjamin F. Flowers

By Samuel Fowler & Thayer

Attorney



# UNITED STATES PATENT OFFICE.

BENJAMIN F. FLOWERS, OF BELLVUE, COLORADO.

## COMBINATION DOOR KNOB AND BELL.

SPECIFICATION forming part of Letters Patent No. 627,956, dated June 27, 1899.

Application filed July 23, 1898. Serial No. 686,705. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN F. FLOWERS, a citizen of the United States of America, residing at Bellvue, in the county of Larimer and State of Colorado, have invented certain new and useful Improvements in Combination Door Knobs and Bells, of which the following is a specification.

This invention relates to certain new and useful improvements in door-bells, and more particularly to combination door bells and knobs.

The object of my invention is to provide a combination door bell and knob so constructed as to be easily and quickly applied and when once applied will efficiently perform all of its intended functions.

The novel features of the invention are embodied in the appended claims, which are intended to accord in their terms, spirit, and meaning with the prior state of the art and the existing law.

In the drawings forming a part of this specification, Figure 1 is a side elevation of a spindle and knob embodying my invention. Fig. 2 is a central vertical section through the same. Fig. 3 is a view illustrating the dogs mounted in slots upon the disk. Fig. 4 is a detail view of the push-button.

Referring by letters to the drawings, A represents a square hollow spindle provided with the usual recesses therein, adapted to receive screws by which the hollow knobs B and C are secured thereon. Extending through the spindle is a twisted-wire shaft D, held therein by a collar *a*, secured in any suitable manner to the end of the spindle upon which the knob C is mounted. This collar prevents the spindle from slipping out of position and allows the same to revolve freely therein, the ends of which project into the knobs. The end projecting into the knob C engages an aperture *b* in the plate *c* upon the square hollow spindle E, mounted in a square aperture *d* in the countersunk portion F and secured therein by the push-button G, which is threaded thereon and held flush with the end of the knob by the coiled spring *e*, mounted therein between the push-button and the countersunk portion. The aperture *b* is provided with angular portions *f*, which engage the grooves formed by the twisted-wire shaft,

and when forced down over the same by pressing the push-button cause the shaft to revolve in one direction, and when the push-button is returned to its normal position by the coiled spring the shaft revolves in the opposite direction. Upon the other end of the shaft is mounted a crown-wheel H, which engages and operates a cog I, mounted within the crown-wheel upon a shaft *g*, journaled in a support J, secured to the hollow spindle. The shaft *g* also supports a disk K, having oppositely-disposed curved slots *h*, adapted to receive dogs L, which are loosely secured therein and adapted to engage the bell N, which is secured to the interior of the knob B by a thimble *i*, extending only partly through the bell and provided with interior screw-threads adapted to take the exterior screw-threads upon the nipple *j*.

The portion of the knob supporting the bell is provided upon its edge with interior screw-threads *k*, adapted to receive the exterior threads *l* upon the portion of the knob which is provided with apertures *m* to permit the sound to pass out freely or that portion which is secured to the spindle.

It will thus be seen that I provide a combination door bell and knob that will efficiently perform all of its intended functions, the extreme simplicity rendering an elaborate description unnecessary.

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

1. In the combination of a door bell and knobs, a square hollow spindle connecting the said knobs, of a twisted-wire shaft extending through the said spindle having a collar thereon, adapted to secure the said shaft in position and to allow the same to revolve freely therein, of a push-button mounted in one of the knobs adapted to engage the shaft, the said shaft operating the bell mechanism, substantially as shown and described.

2. In the combination of a door bell and knobs a square hollow spindle connecting the said knobs, a twisted-wire shaft extending through the said spindle and journaled in a collar secured to one end thereof, of a push-button threaded to one end of a square hollow spindle mounted in a square aperture in the countersunk portion of one of the knobs, hav-

- ing a plate upon its other end, and a coiled spring interposed between the said counter-sunk portion and push-button, the said plate having an aperture provided with angular  
5 projections adapted to engage the grooves formed by the twisted-wire shaft and to rotate the same, the said shaft operating the bell mechanism, substantially as shown and described.
- 10 3. In the combination of a door bell and knobs, a square hollow spindle connecting the said knobs, a twisted-wire shaft extending through the said spindle, journaled in a collar secured to one end thereof, and rotated by  
15 a push-button mounted in one of the said knobs the said shaft supporting and operating a crown-wheel in the other knob, adapted to engage a cog journaled in a support on the inner side of the said crown-wheel, of a disk operated by the said cog, the said disk provided 20 with oppositely-disposed curved slots having dogs loosely secured therein, adapted to engage the bell which is provided with a thimble threaded to a nipple on the interior of the knob, the said knob composed of two portions 25 threaded together, the portion which is secured to the spindle being provided with apertures, substantially as shown and for the purpose set forth.

BENJAMIN F. FLOWERS.

Witnesses:

NEWTON C. GARBUTT,  
RUSSELL TALCOTT.