

No. 703,053.

Patented June 24, 1902.

C. FORD.
BELL FOR CYCLES, &c.
(Application filed Feb. 25, 1902.)

(No Model.)

Fig.1.

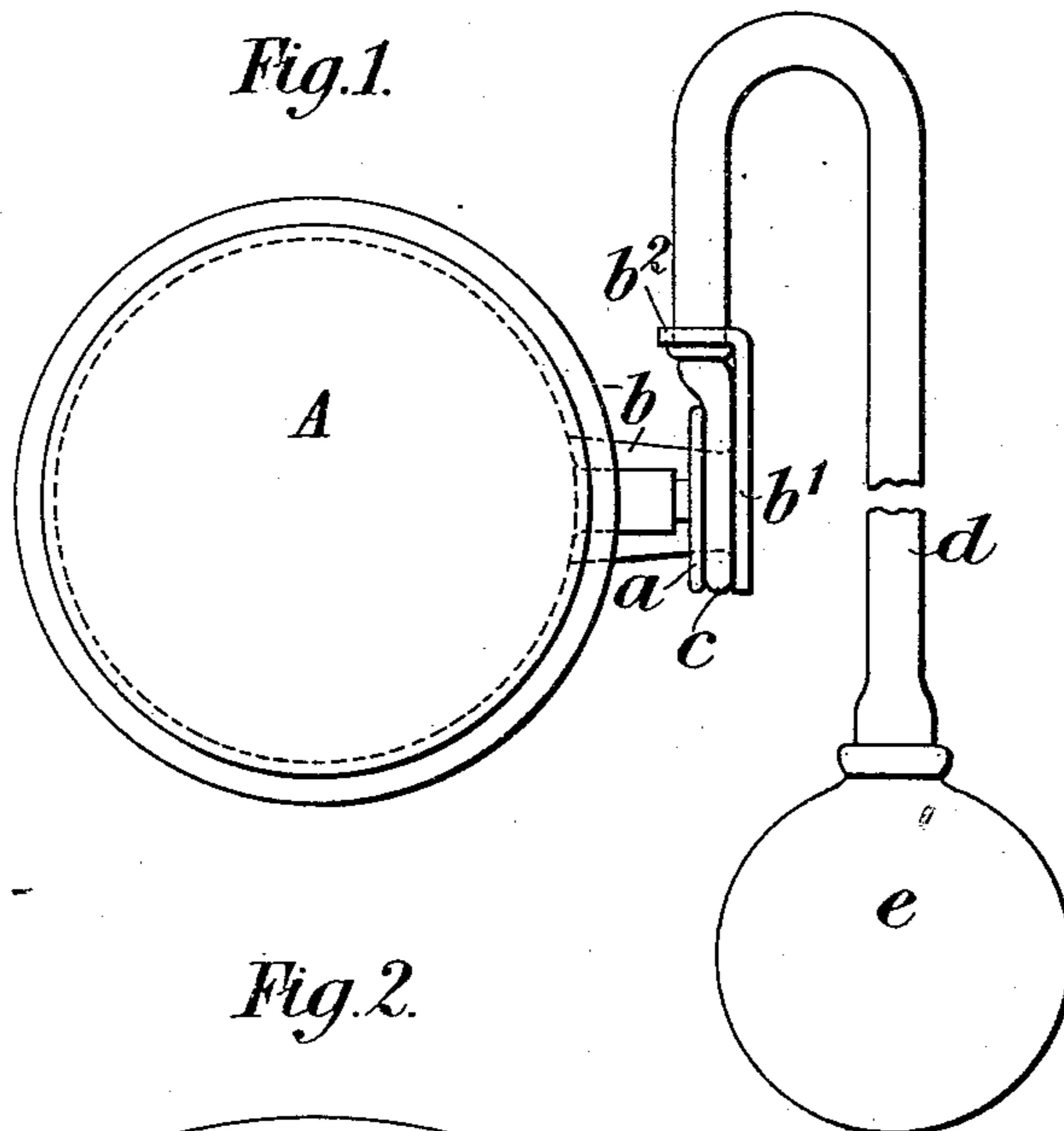


Fig.2.

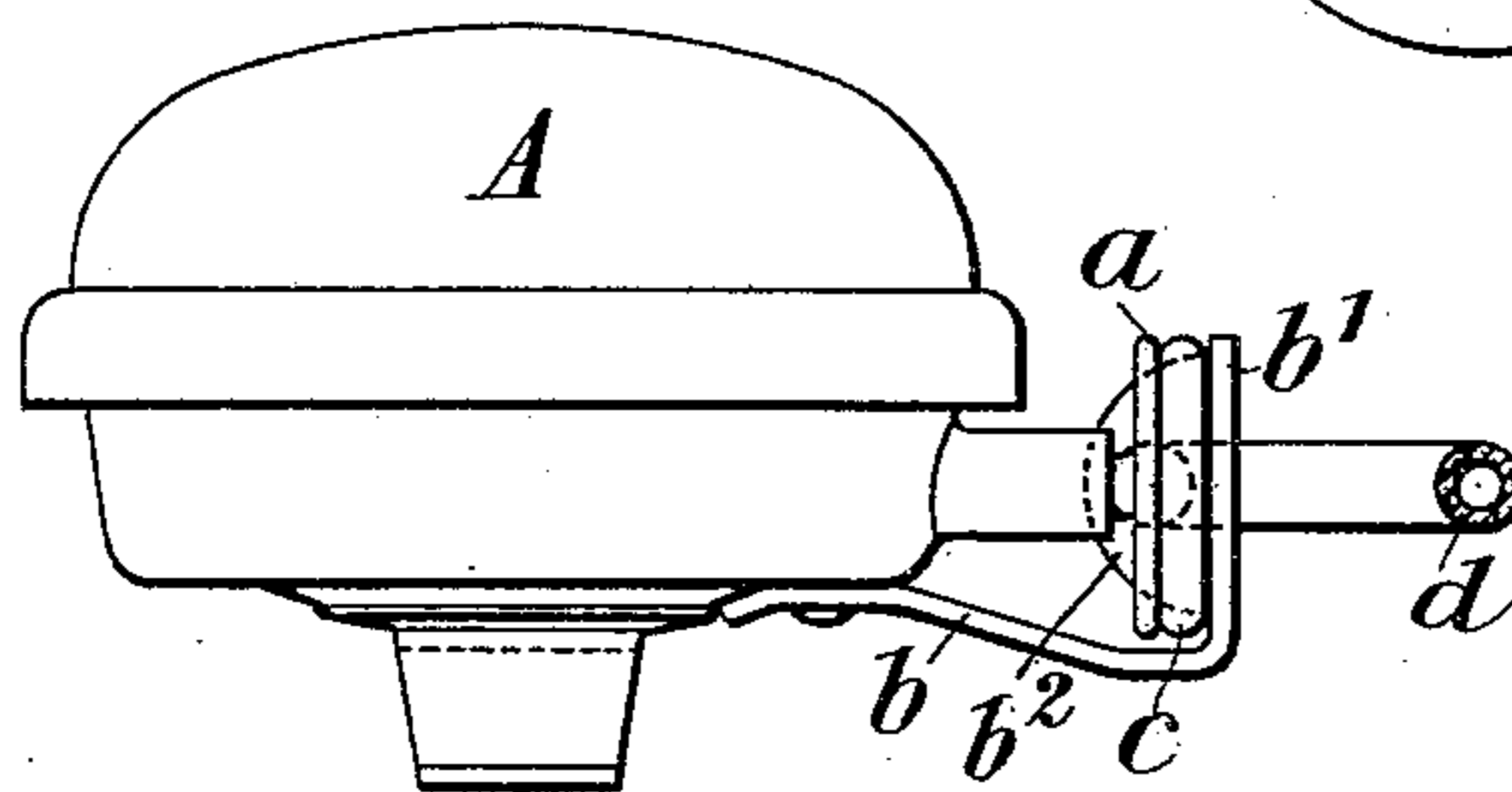
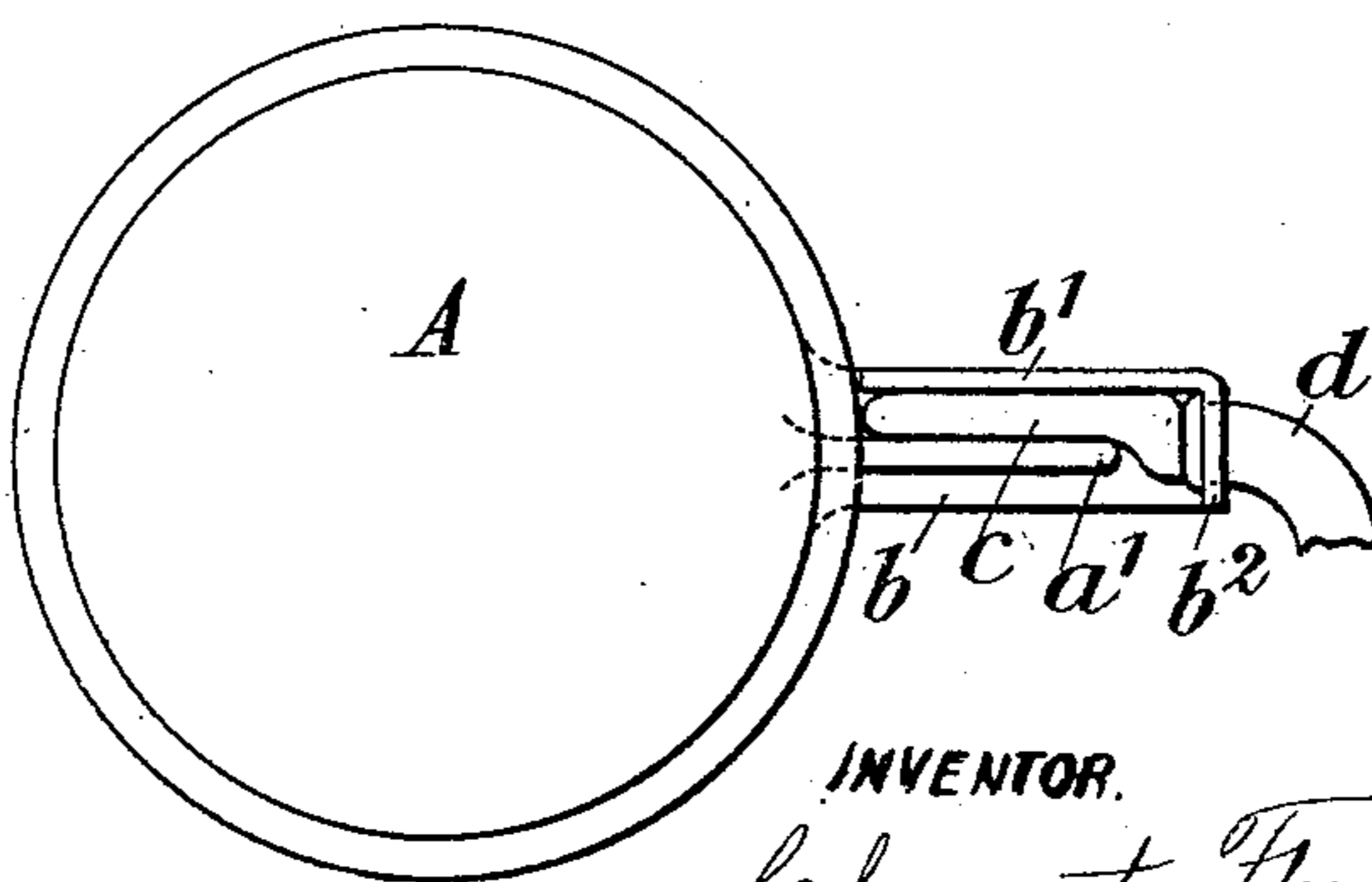


Fig.3.



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BELL FOR CYCLES, &c.

SPECIFICATION forming part of Letters Patent No. 703,053, dated June 24, 1902.

Application filed February 25, 1902. Serial No. 95,594. (No model.)

To all whom it may concern:

Be it known that I, CLEMENT FORD, a subject of His Majesty the King of Great Britain and Ireland, residing at Lower House, Branscombe, Axminster, England, have invented certain new and useful Improvements Relating to Bells for Cycles and the Like; and I do hereby 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.

The usual position of a cycle-bell on the handle-bar is inconvenient, the bell being in the way should the rider desire to change his grip and being nearly always damaged in the event of a fall. If placed elsewhere, however, it cannot readily be got at.

According to my invention I apply a small rubber bulb or elastic chamber to the bell, the same being held in a compressed condition against the actuating button or lever by a suitable holder or bracket which supplies the counter-pressure necessary to cause the bulb to actuate the button or lever when inflated. A convenient length of tubing establishes communication between said bulb or elastic chamber and a rubber ball or bulb, attachable by clips to the handle-bar or other desired place. The bell can thus be actuated from a distance and may be secured or fixed to any desired part of the machine, so as to be quite out of the way and unobtrusive—say to the handle-bar plunger or to the frame, for example.

In the annexed drawings, in which similar letters refer to corresponding parts in all the figures, Figure 1 is a plan view of a cycle-bell having my invention applied thereto. Fig. 2 is a side elevation of Fig. 1, and Fig. 3 is a plan view showing a slight modification.

Referring to Figs. 1 and 2, the cycle-bell A is intended to represent one of the well-known type (such as a clockwork-bell) which is sounded by thrusting inward the push-button *a*. Suitably secured to the bell is a holder or bracket *b*, comprising a counter-pressure plate *b'*, between which and the push-button *a* the rubber bulb *c* is held in a compressed condition, and a lug *b²*, formed or provided at right angles, or thereabout, to the counter-

pressure plate *b'* through an aperture, in which lug is passed the rubber tube *d*, which establishes communication between the actuating-bulb *c* and the rubber ball or bulb *e*. On squeezing the latter by the hand the bulb *c* is inflated and pushes inward the button *a*, causing the bell to ring. The ball *e* is fixed so as to be within easy reach of the hand, as by attaching the rubber tube *d* by clips or otherwise to the handle-bar, and the bell may be fixed at any desired distance from the ball *e* permitted by the length of the tubing *d* in the most convenient and unobtrusive place.

Fig. 3 shows the arrangement of the bulb *c* and its holder or bracket *b* slightly modified for application to a very common type of cycle-bell sounded by moving the actuating-lever *a'* circumferentially thereof.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination with a bell for cycles and the like, of an arm *b* secured to and extending from the exterior of the bell, a plate *b'* provided to said arm at right angles therewith, said plate facing the usual finger-actuated button or thumb-piece of the bell, an elastic bulb *c* interposed between said plate and the button or thumb-piece aforesaid and a tube-engaging piece at right angles to the plate *b'* through which passes the rubber tube *d* connecting the bulb *c* with the hand-ball *e*, as specified.

2. The combination with a bell for cycles and the like, of a detachable pneumatic operating device, said device consisting of the arm *b* detachably secured to the base of the bell, the plate *b'* extending at right angles from said arm, the pneumatic bulb *c* lying against the plate *b'*, the perforated lug *b²* at right angles to the plate last mentioned and the rubber tube held by said perforated lug and connecting the bulb *c* with the hand-ball *e*, as specified.

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

CLEMENT FORD.

Witnesses:

HENRY COX,

LEWIS RENDLE TEMPLER.