

No. 638,323.

Patented Dec. 5, 1899.

F. DICK.
BELL FOR VELOCIPEDES.

(Application filed Apr. 28, 1899.)

(No Model.)

Fig. 1.

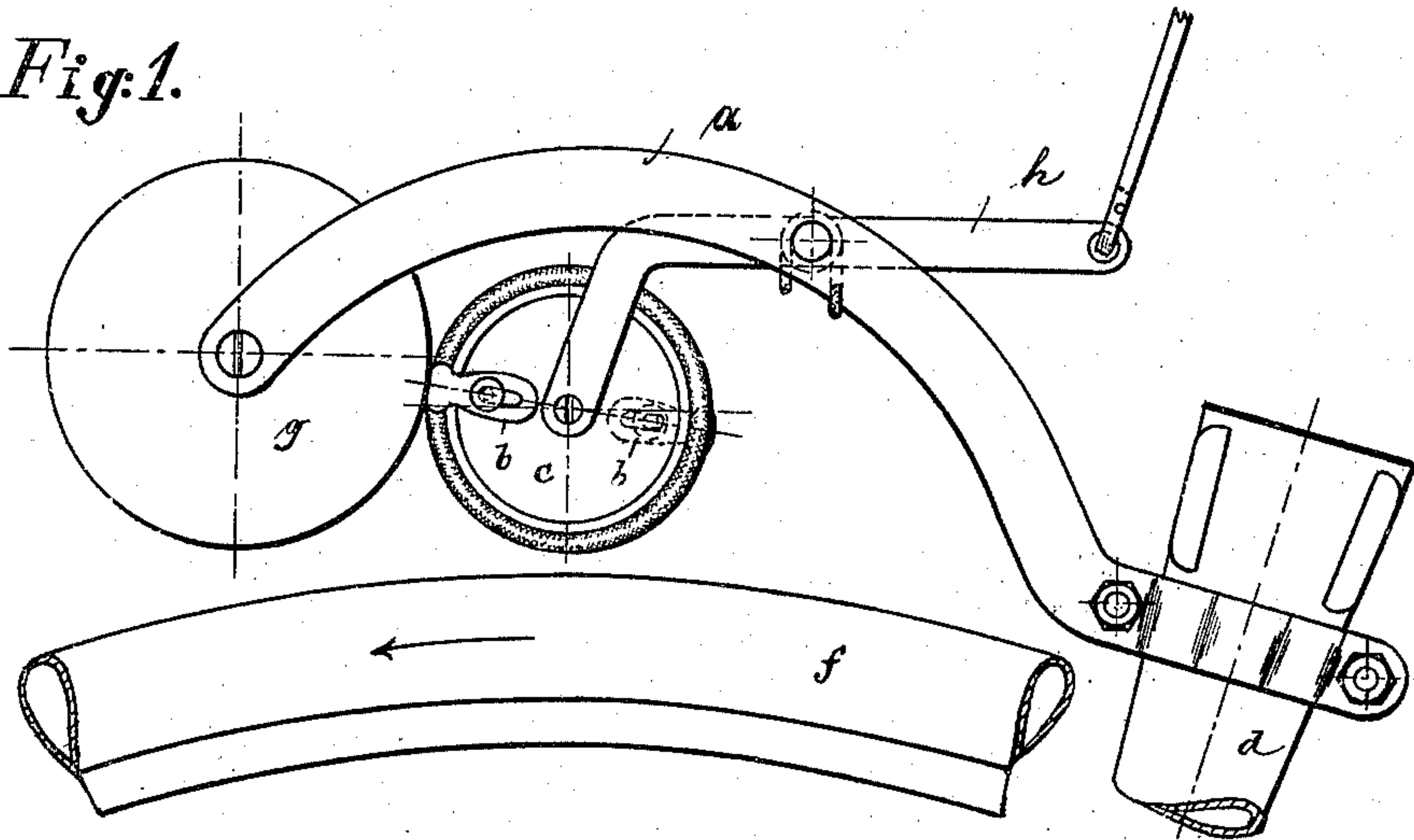


Fig. 2.

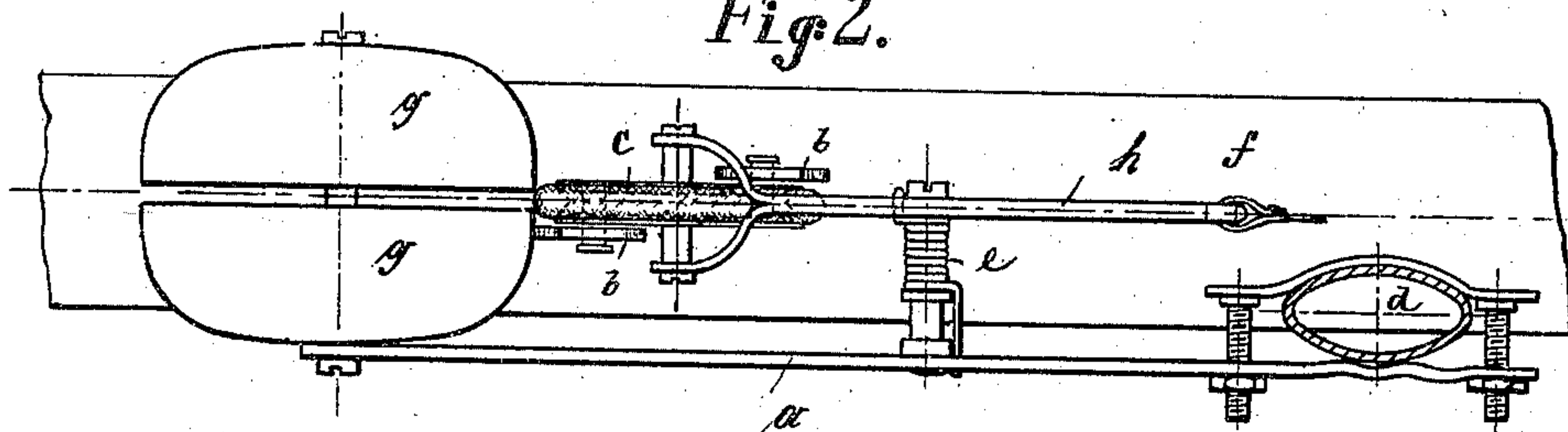
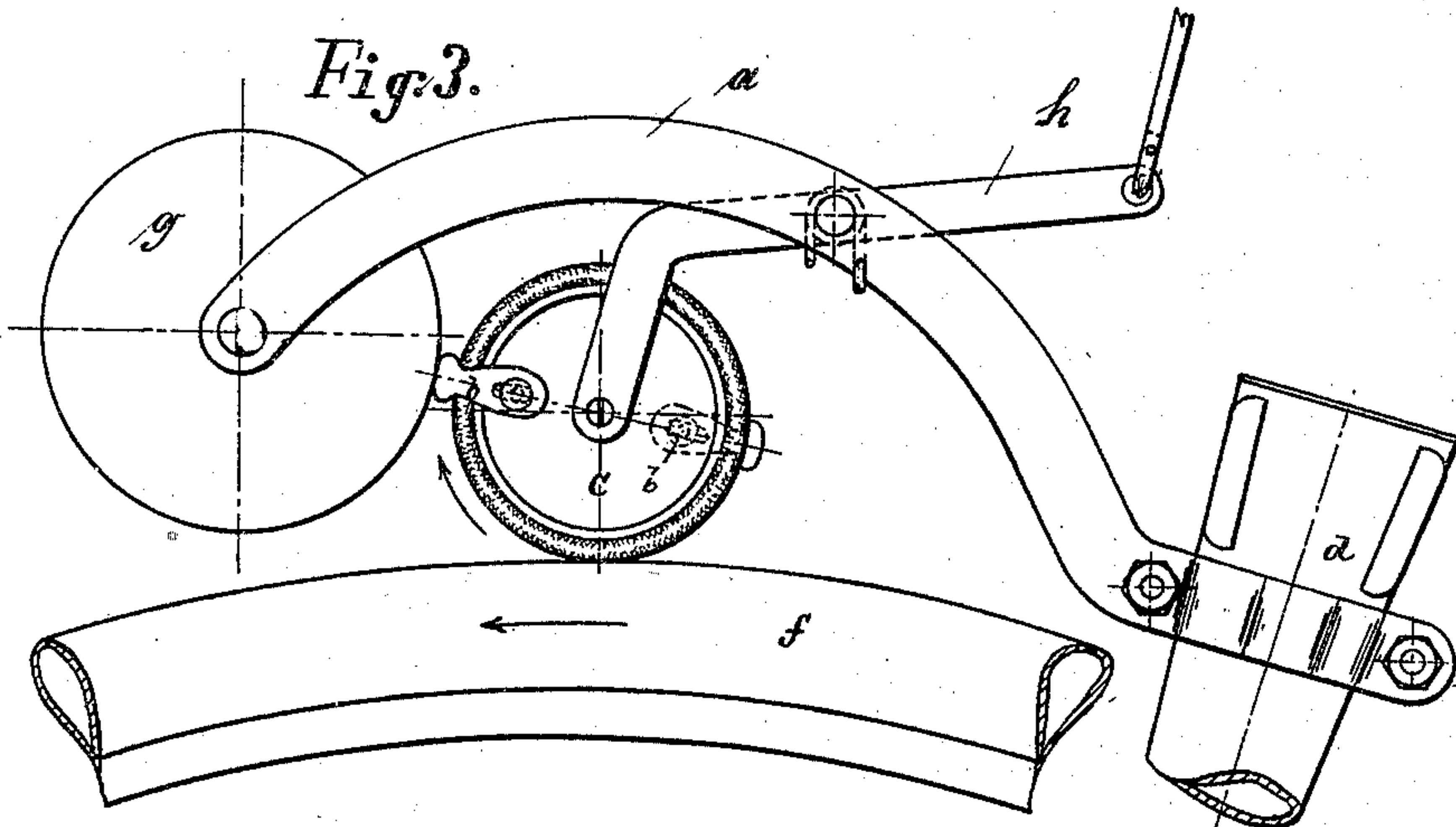


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANZ DICK, OF BENRATH, GERMANY.

BELL FOR VELOCIPEDES.

SPECIFICATION forming part of Letters Patent No. 638,323, dated December 5, 1899.

Application filed April 28, 1899. Serial No. 714,845. (No model.)

To all whom it may concern:

Be it known that I, FRANZ DICK, a citizen of Germany, and a resident of Benrath, near Dusseldorf, Germany, have invented certain
5 new and useful Improvements in Bells for Velocipedes, of which the following is a specification.

This invention relates to that class of bells or alarm devices which are caused to ring
10 when a friction-wheel is brought into contact with the tire.

In the following description reference will be made to the accompanying drawings, in which—

15 Figure 1 is a side elevation of the bell, showing the friction-wheel raised. Fig. 2 is a plan, and Fig. 3 a side elevation, showing the friction-wheel lowered.

The friction-wheel may be situated behind
20 the bell or in front of the same, and the bell is preferably arranged in duplicate, as usual, two bells *g* being connected with each other and the strikers *b* being arranged on both sides of the friction-wheel *c* in such a manner that the strikers situated on one side
25 act on one bell, while the strikers situated on the other side act on the other bell. The strikers are adapted not only to turn on their respective pivots, but also to slide along the
30 same. Consequently they will turn outward when caused to revolve, but will recede easily after the impact.

In the example shown by the drawings the bell is not lowered for setting it in action,
35 but remains stationary, and the friction-wheel

only descends. The bell is attached by means of an arm *a* to the cycle-fork *d* or to any convenient part of the cycle-frame, and the arm *a* supports also the fulcrum for the lever *h*, carrying the friction-wheel. A spring *e* acts
40 on the said lever in such a manner that the wheel is not only lifted off the wheel-tire *f*, but caused to rest against the bell. Consequently the friction-wheel serves also as a
45 damper, which prevents the bells from sounding accidentally during the action of the cycle.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—
50

1. In an alarm apparatus for velocipedes of the type described, a friction-wheel mounted on a lever adapted to turn toward the wheel and to rest against the bell as long as the latter is out of action, in order to prevent the
55 bell from sounding accidentally but to release the bell when the friction-wheel is set in action substantially as described.

2. A cycle-bell composed of a fixed gong, a friction-wheel adapted to engage alternately
60 the wheel-tire and the gong, a spring-actuated lever for operating the friction-wheel, and a striker movably secured to the wheel, substantially as specified.

Signed by me at Dusseldorf, Germany, this
13th day of April, 1899. 65

FRANZ DICK.

Witnesses:

WILLIAM ESSENWEIN,
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