

(No Model.)

J. D. KINSLEY & S. L. POWERS.
TOY WATER WHEEL.

No. 568,856.

Patented Oct. 6, 1896.

FIG. 1.

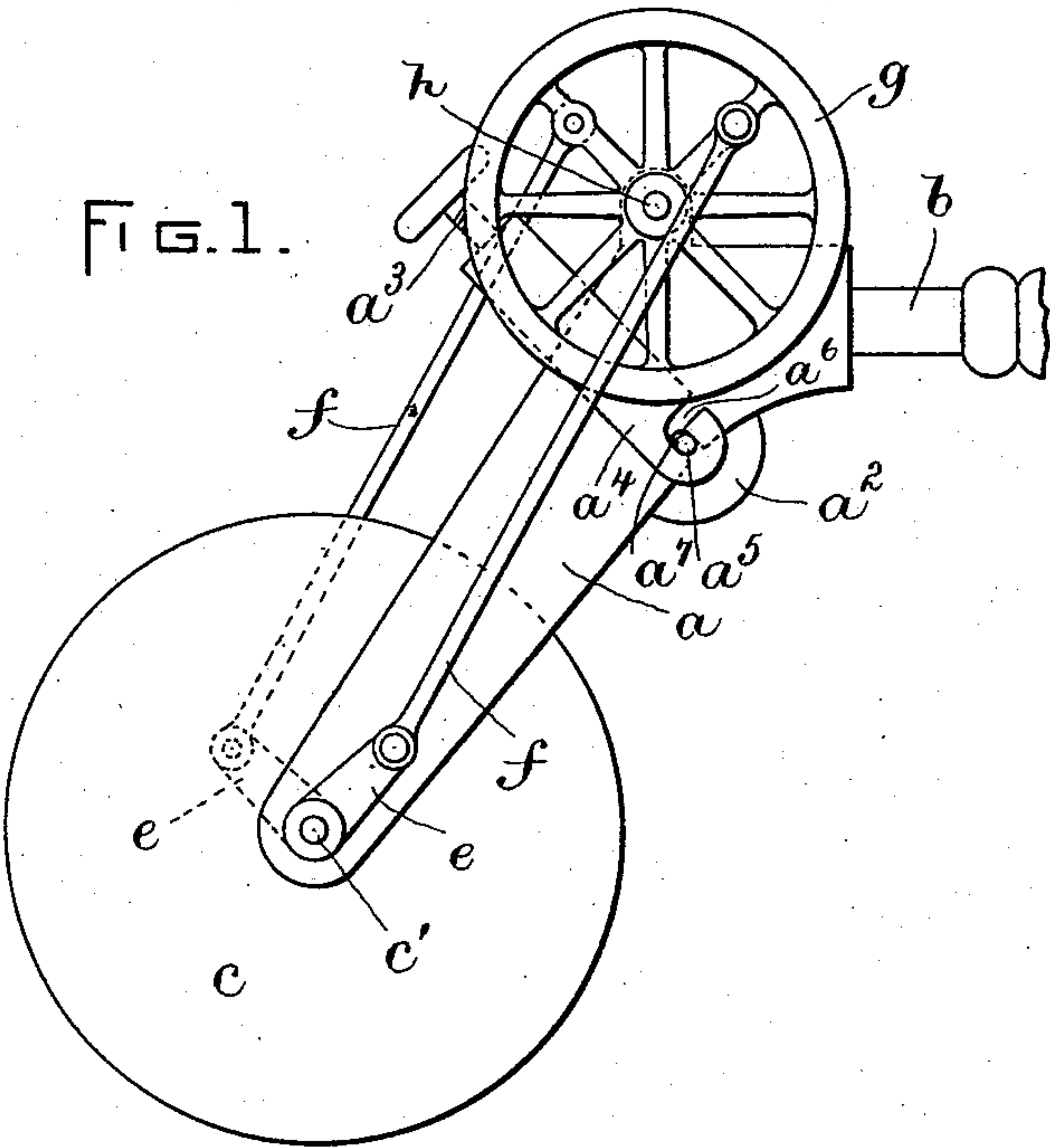


FIG. 2.

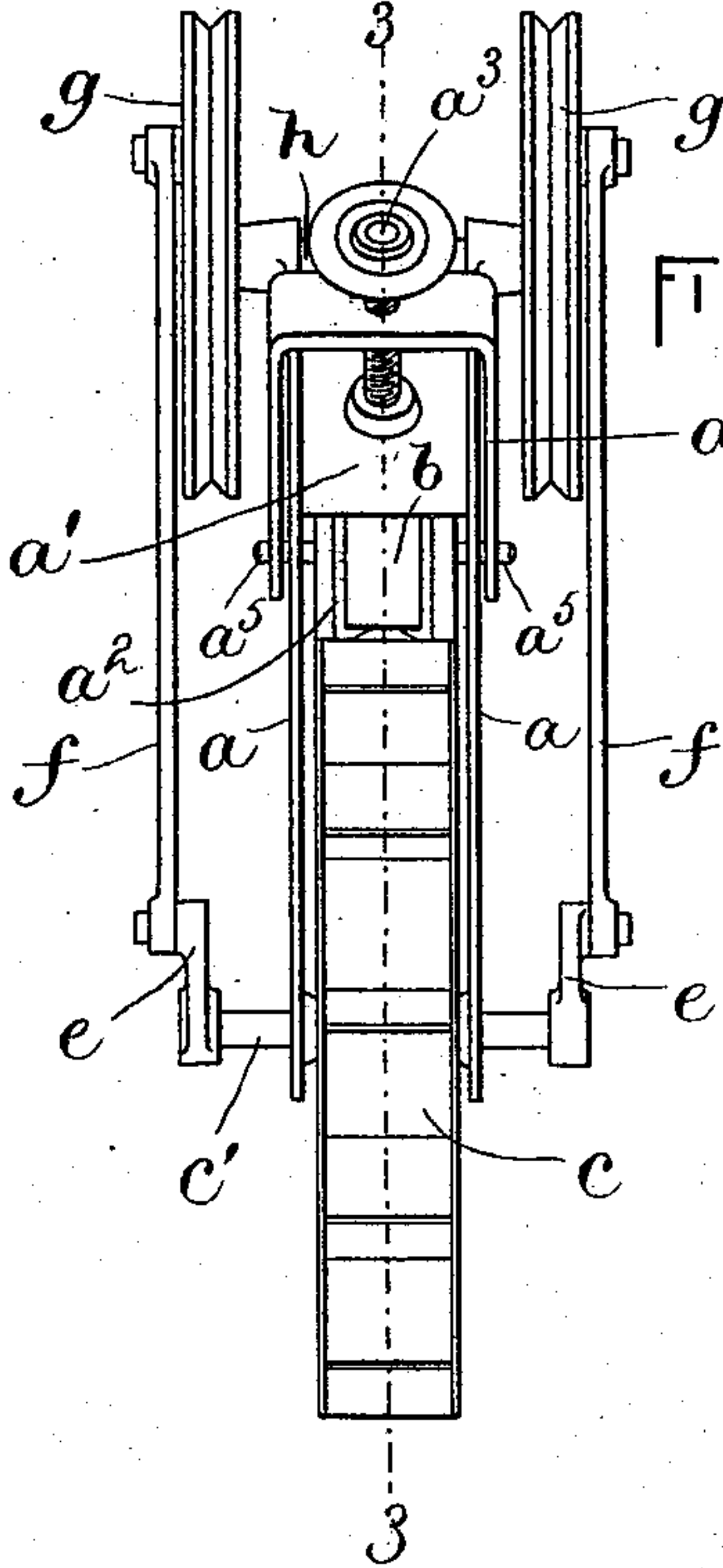


FIG. 3.

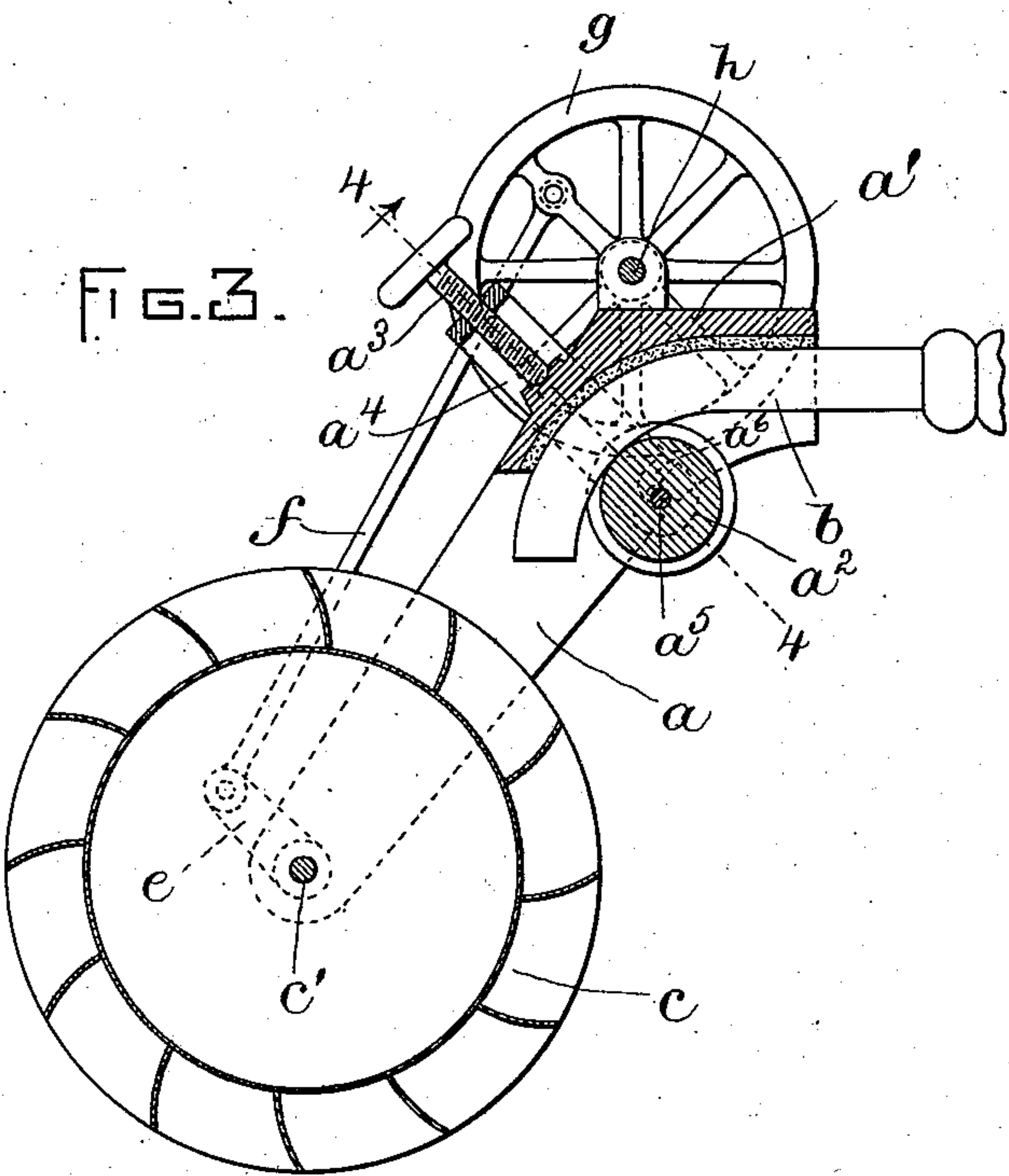
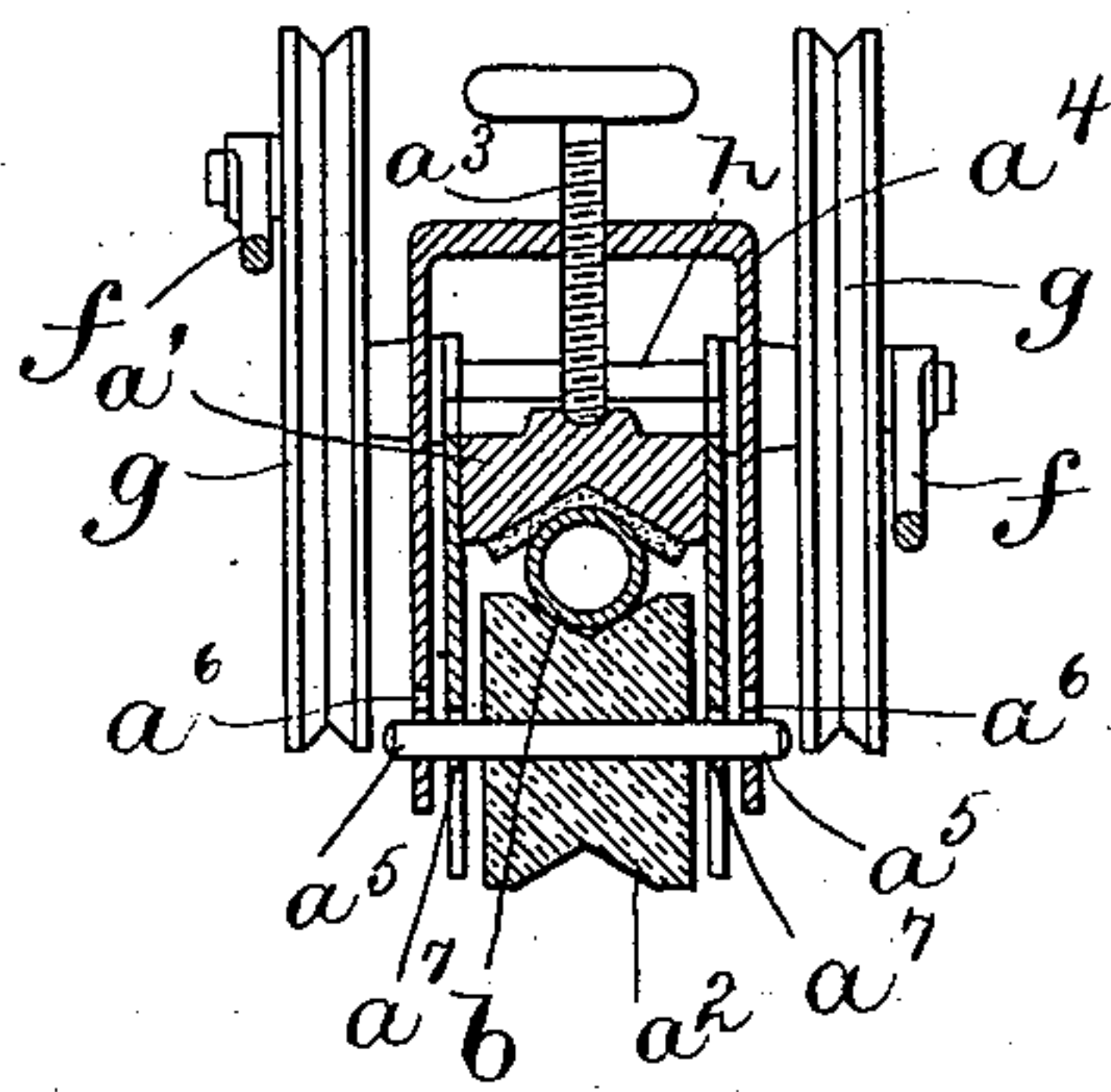


FIG. 4.



WITNESSES:
A. D. Hanson
Rollin Abell.

INVENTOR:
J. D. Kinsley
S. L. Powers
by Wright Brown & Quincy
Atty.

UNITED STATES PATENT OFFICE.

JAMES D. KINSLEY AND SAMUEL L. POWERS, OF NEWTON, MASSACHUSETTS.

TOY WATER-WHEEL.

SPECIFICATION forming part of Letters Patent No. 568,856, dated October 6, 1896.

Application filed May 6, 1895. Serial No. 548,338. (No model.)

To all whom it may concern:

Be it known that we, JAMES D. KINSLEY and SAMUEL L. POWERS, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Toy Water-Wheels, of which the following is a specification.

The invention consists in certain constructions and combinations of parts recited in the appended claims, the details of a preferred form of construction and arrangement being described hereinafter, and illustrated in the drawings.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of our improved toy. Fig. 2 represents a front elevation of the same. Fig. 3 represents a section on line 3 3 of Fig. 2. Fig. 4 represents a section on line 4 4 of Fig. 3. The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a frame, which is provided with a seat or fixed clamping member *a'*, adapted to bear upon one side of a faucet *b*. The frame *a* is also provided with a movable clamping member *a²*, which is arranged to bear upon the opposite side of the faucet *b* and is connected with an adjusting-screw *a³*, which is engaged with a yoke or bracket *a⁴*, mounted on the frame *a*, said screw being arranged to force the clamp *a²* against the faucet and thus cause the two members *a'* and *a²* to tightly clamp the faucet and hold the frame *a* thereon.

c represents a water-wheel, which is affixed to a shaft *c'*, journaled in bearings in the frame *a*, said frame being extended from the portion where the clamping members are located in the form of two arms projecting at opposite sides of the water-wheel. The wheel is arranged so that when the frame is applied as described to a faucet the buckets of the wheel are presented to the stream issuing from the faucet, so that the wheel will be impelled thereby.

It will be seen from the foregoing that the water-wheel-carrying frame provided with clamping members, the wheel and clamping members being relatively arranged as described, so that when the said members are applied to a faucet the wheel is presented to the stream issuing from the faucet, constitutes

a toy which is adapted to be readily applied to a faucet of ordinary construction and is made operative by the act of applying it to the faucet, said toy being readily removable, so that it does not interfere with the ordinary use of the faucet.

h represents a shaft, which is journaled in bearings on the frame *a* and is provided with fly-wheels *g g*, which are connected by connecting-rods *f f* with cranks *e e*, affixed to the shaft *c'* of the water-wheel, the arrangement being such that the described connections impart rotary motion to the shaft *h* when the water-wheel is in operation. The shaft *h* may be used to drive other light mechanisms by being suitably belted or otherwise connected thereto.

We do not limit ourselves to the details of construction here shown, and may variously modify the same without departing from the spirit of our invention.

The clamping member *a²* is here shown as made in the form of a grooved disk, having trunnions *a⁵ a⁵*, which enter angular slots *a⁶* in the yoke, the latter being free from positive attachment to the frame, so that the member *a²* can accommodate itself to the size and shape of the faucet.

The side portions of the frame *a* are shown in Figs. 1 and 3 as provided with slots *a⁷* to receive the trunnions *a⁵*.

We claim—

1. In a faucet attachment, the combination of a frame or support comprising an arm, a seat on one side thereof at its inner end and fixedly attached to it and projecting laterally from it to extend over and engage one side of the faucet-spout, and suitable bearings at the outer end of the frame for the shaft of a bucket-wheel; a clamping-piece in juxtaposition to said seat to engage the opposite side of the spout, and movable on the arm toward and from the seat; adjusting means interposed between the clamping-piece and seat and operating by engagement therewith to force said parts toward each other upon the spout; and a bucket-wheel rotatively supported by the bearings at the outer end of the frame in position to receive a stream of water issuing from the faucet-spout when the frame is clamped thereto.

2. A faucet attachment comprising a frame

composed of side arms and a seat extending
between the same for engaging the discharge-
spout of the faucet; a water-wheel journaled
between said arms at the outer end of the
5 frame; a shaft at the inner end of the frame;
connections between the water-wheel and the
shaft to turn the latter; a clamping-piece op-
posed to the seat; and means for moving
said clamping-piece toward and from the seat
10 for the purpose described.

3. A faucet attachment comprising a frame
composed of side arms and a spout-engaging
seat extending between the same; a yoke
straddling the seat and extending beyond
15 the same; a clamping-piece journaled in the

extending portions of said yoke; a screw en-
tered through the yoke and bearing against
the back of the seat; and a water-wheel jour-
naled between the side arms of the frame at
the outer end.

In testimony whereof we have signed our
names to this specification, in the presence of
two subscribing witnesses, this 2d day of May,
A. D. 1895.

JAS. D. KINSLEY.
SAML. L. POWERS.

Witnesses:

A. D. HARRISON,
ROLLIN ABELL.