

(No Model.)

L. DE MONTGOMERY, NÉE DITTE.
BICYCLE TRAINER.

No. 583,920.

Patented June 8, 1897.

FIG. 3.

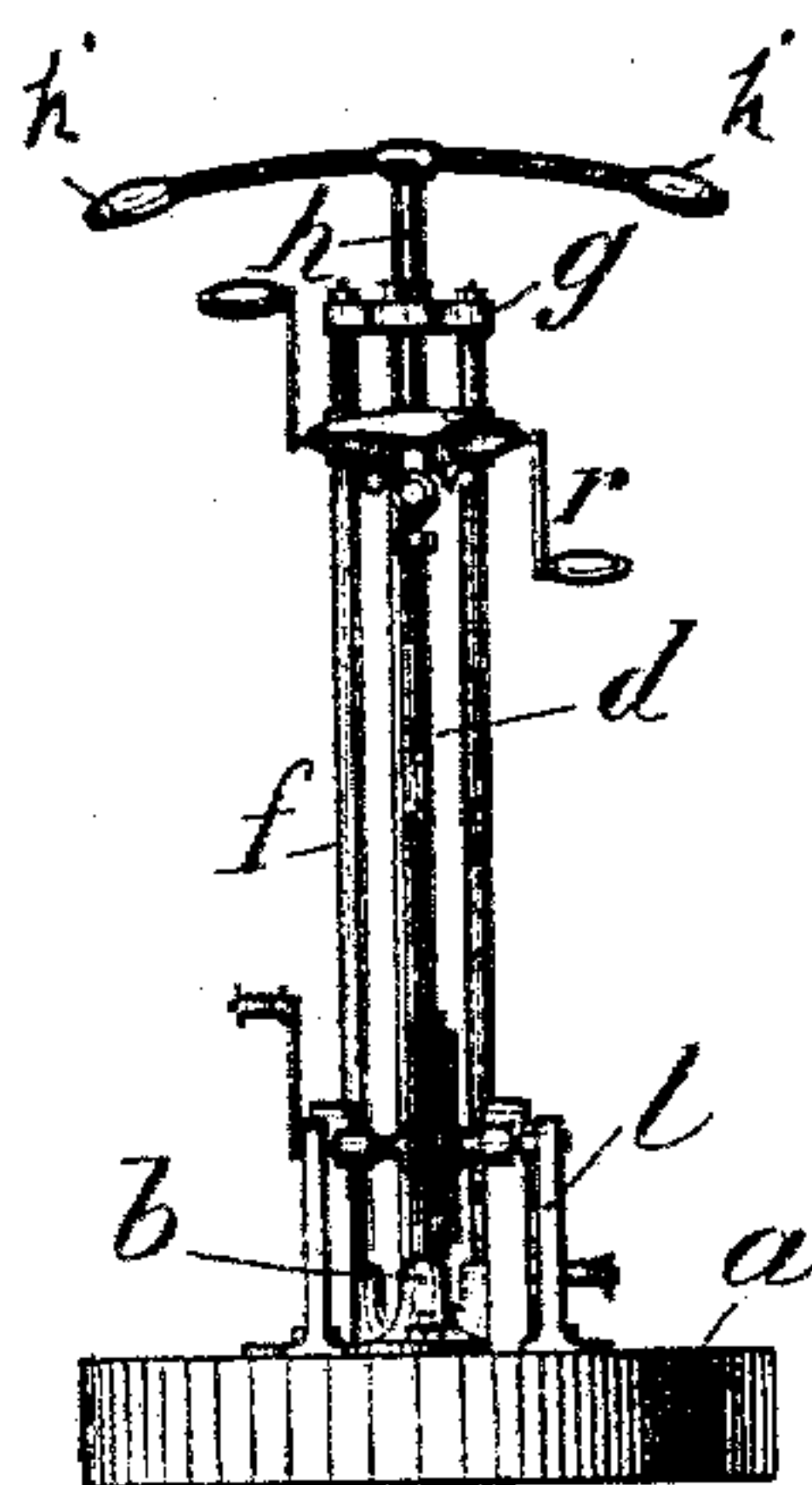


FIG. 1.

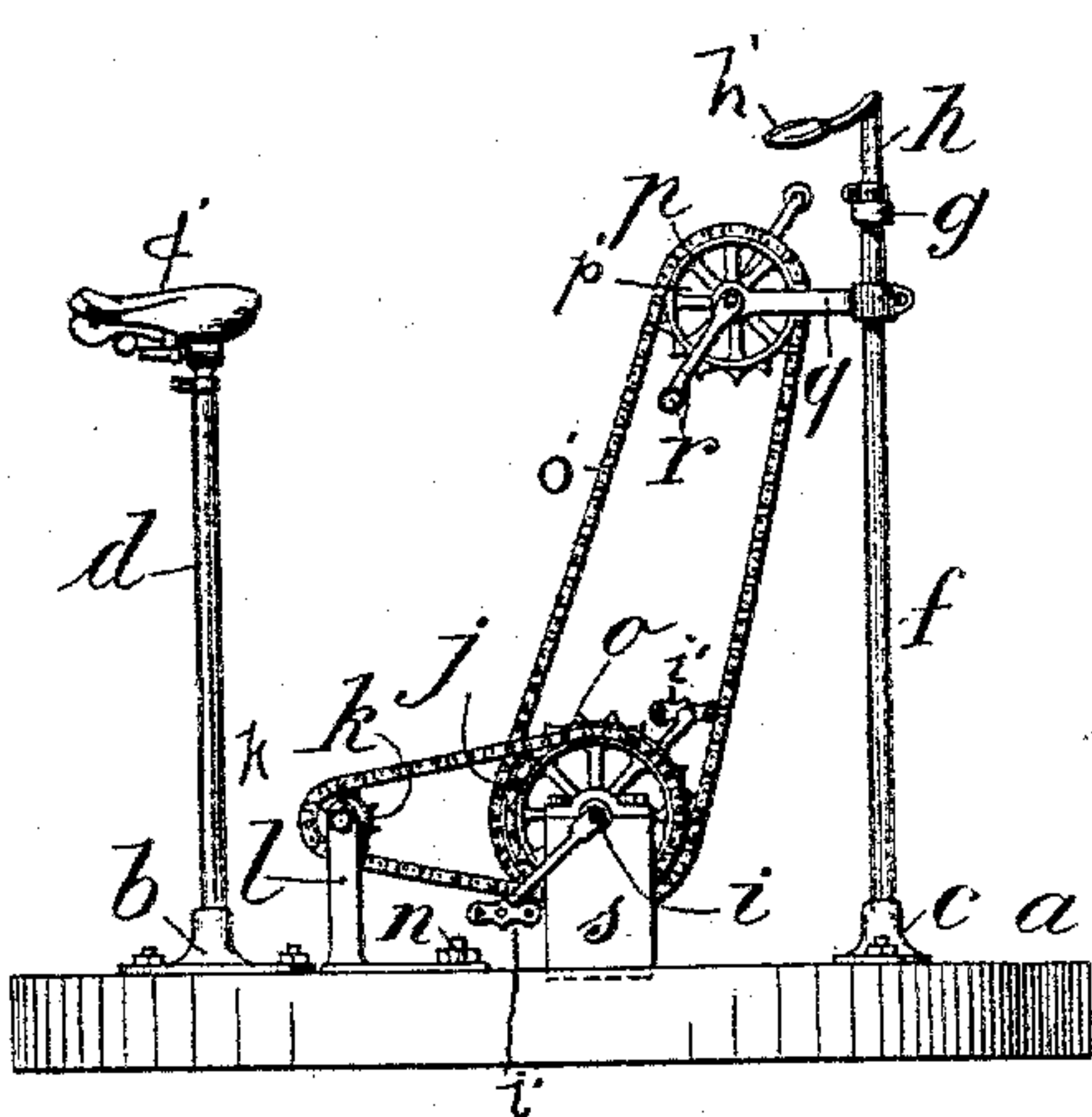


FIG. 4.

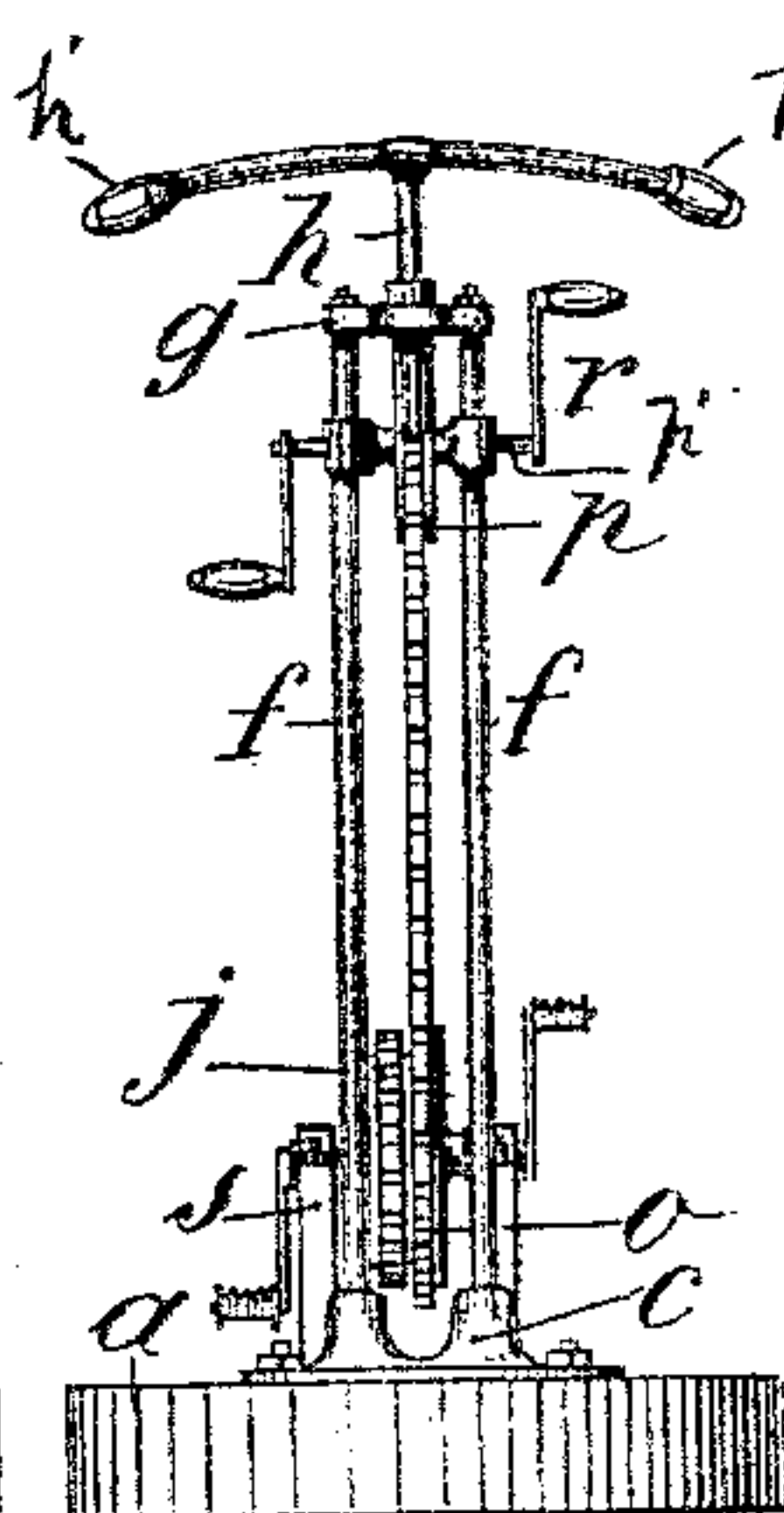


FIG. 2.

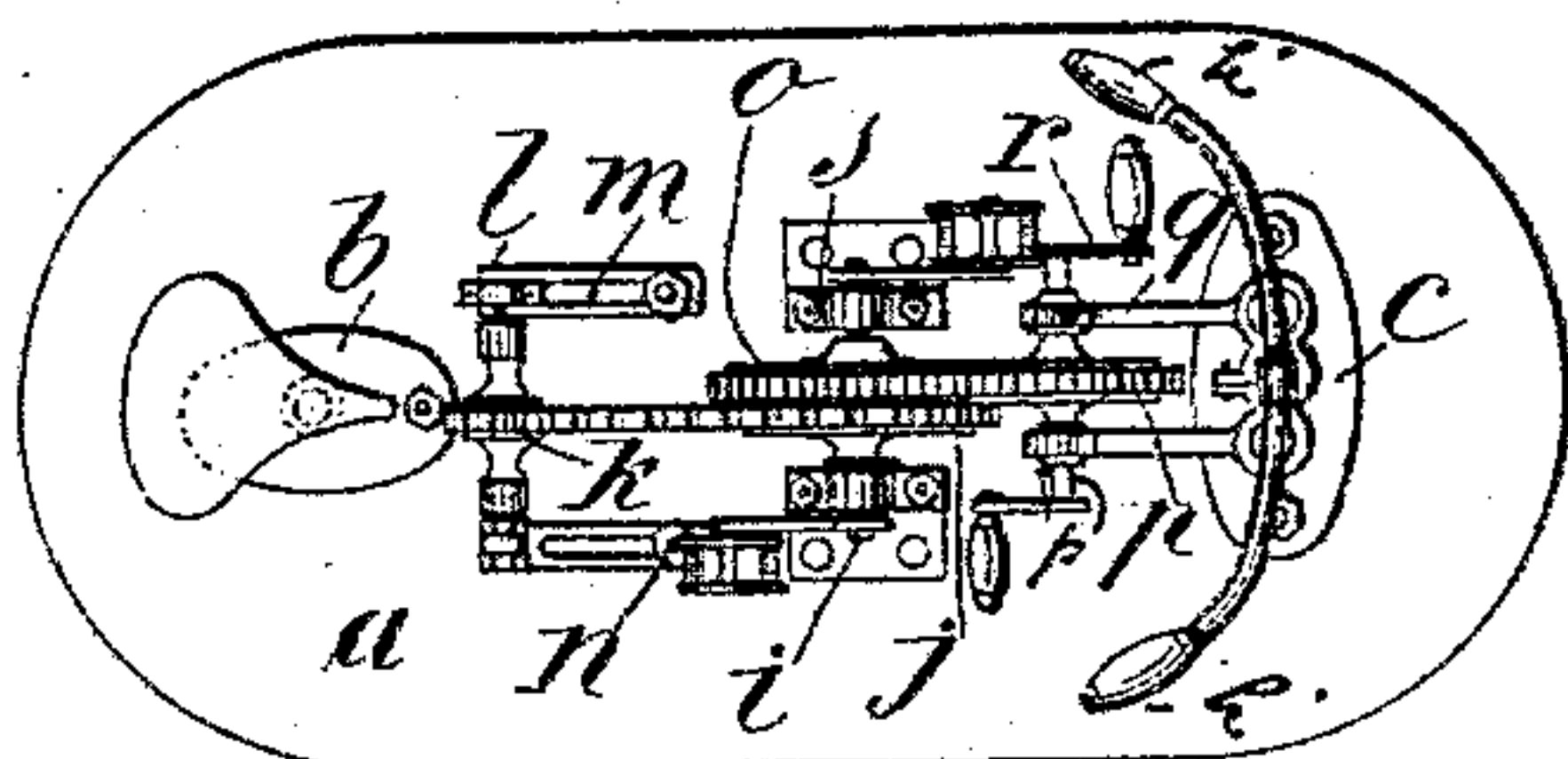
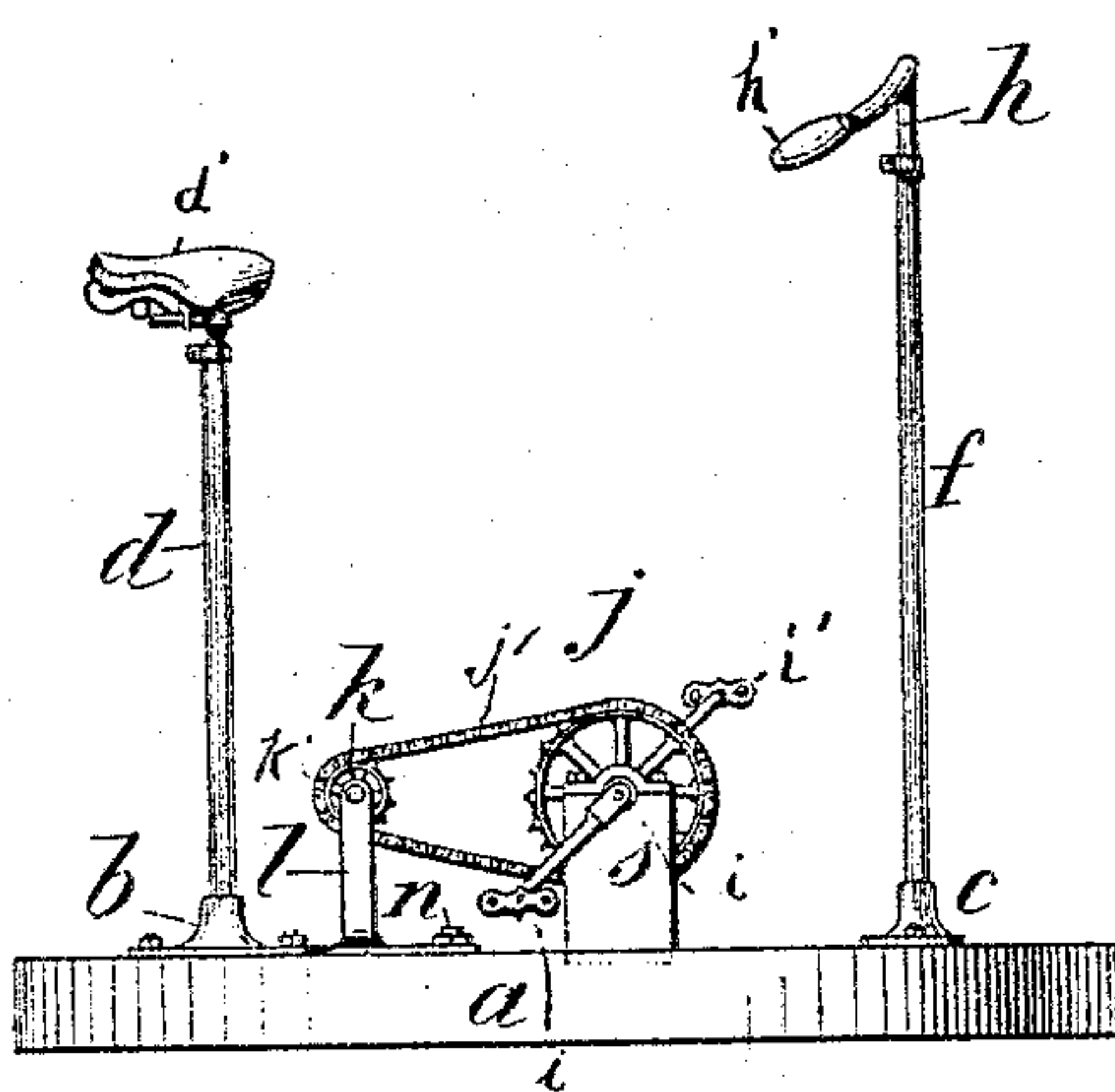


FIG. 5.



Witnesses.
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LUCIE DE MONTGOMERY, NÉE DITTE, OF PARIS, FRANCE.

BICYCLE-TRAINER.

SPECIFICATION forming part of Letters Patent No. 583,920, dated June 8, 1897.

Application filed December 7, 1896. Serial No. 614,804. (No model.)

To all whom it may concern:

Be it known that I, LUCIE DE MONTGOMERY, née DITTE, a citizen of the French Republic, residing at Paris, France, have invented certain new and useful Improvements in Exercising-Machines; 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 object of the present invention is to provide convenient means for indoor exercise of the limbs analogous to bicycling.

To this end the said invention consists in the construction and combination of parts hereinafter particularly set forth and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of a machine embodying my invention. Fig. 2 represents a plan view of the same. Fig. 3 represents a front and Fig. 4 a rear elevation of the same, and Fig. 5 represents a side elevation of a simplified form of my invention.

To the base *a* are bolted a rear socket *b* and a pair of front sockets *c*, the former socket receiving the saddle-support *d* and the two latter sockets receiving two standards *f*, which are connected by a bridge or yoke *g*. This bridge is perforated in the middle to receive the guide-rod or handle-support *h*. The pedal-shaft *i* is mounted on short bearing-standards *s*, which are attached to the said base. This shaft carries two large sprocket-wheels *j* and *o*, which are fast thereon. From sprocket-wheel *o* an endless chain *o'* extends to a smaller sprocket wheel or pinion *p*, which is fast on an upper shaft *p'*, mounted in bearing-arms *q*, that are rigid with the standards *f*, this upper shaft being provided with crank-handles *r*. From the other sprocket-wheel *j* an endless chain *j'* extends to a sprocket-pinion *k*, turning with a shaft *k'*, mounted in bearing-standards *l*, which are fastened to the base by bolts *n*, passing through slotted slides *m*, attached to the feet of said standards. These bolts permit the said standards and pinions to be shifted toward or from the said sprocket-wheel *j* in order that the said chain may fit the pinion and wheel when one of these latter parts having a greater or less diameter is substituted to effect a change of

gearing and vary the transmission of speed. The said chains of course constitute effective endless gearing from the said wheels to the said pinions.

Exercise may be taken either by pedaling or by working the handles *r*, which are grasped by the operator, or by both movements combined.

As shown in Fig. 5, the hand-operated devices may be dispensed with and the treadles *i'* operated alone, the operator's hands grasping the ordinary guide-handles *h'* while he sits on the saddle *d'*.

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

1. In a stationary exercising-machine, the combination of a shaft having treadles and two wheels mounted thereon, with another shaft provided with crank-handles and a pinion and arranged on a higher plane, a third shaft carrying a pinion, endless gearing from said wheels to said pinions respectively a bicycle-saddle arranged to allow the occupant to conveniently operate the said treadles with his feet and the said handles with his hands, and a base which supports all of the aforesaid parts and holds them stationary while permitting motion for exercise, substantially as set forth.

2. In a stationary exercising-machine the combination of a pedal-shaft carrying two sprocket-wheels with a crank-handle shaft carrying a pinion on a higher plane, an additional pinion approximately on the horizontal plane of the pedal-shaft, endless gears connecting the wheels on the said shaft with the said pinions respectively, means for adjusting one of the said pinions toward or from the said pedal-shaft, a saddle and its supporting devices all of the foregoing parts being mounted to retain their station instead of for locomotion, substantially as and for the purpose set forth.

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

LUCIE DE MONTGOMERY, NÉE DITTE.

Witnesses:

W. RANNEY,
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