No. 620,266. Patented Feb. 28, 1899.

J. WODISKA.

PEDAL.

(Application filed Jan. 27, 1898.)

(No Model.)

Fig. 1.

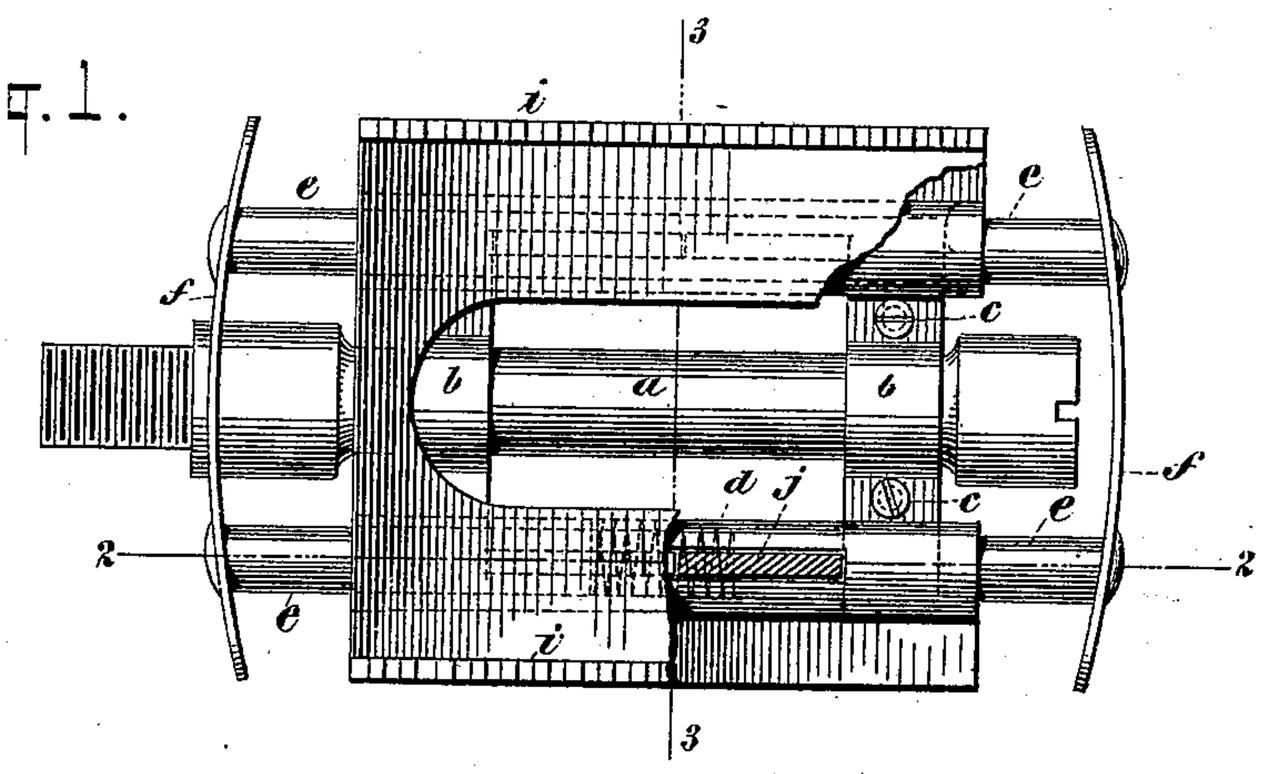


Fig. 2.

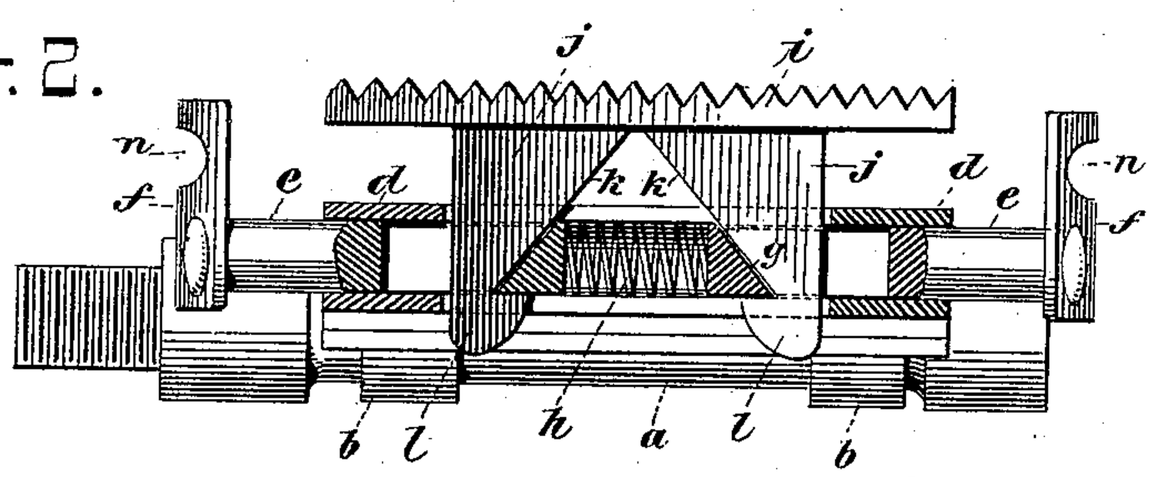


Fig. 3.

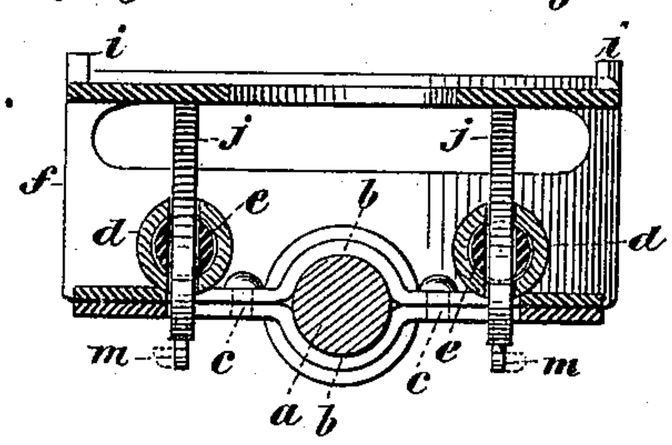


Fig. 4.

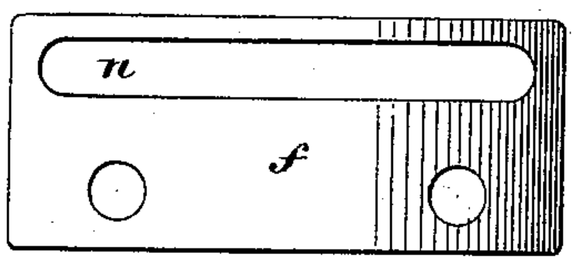
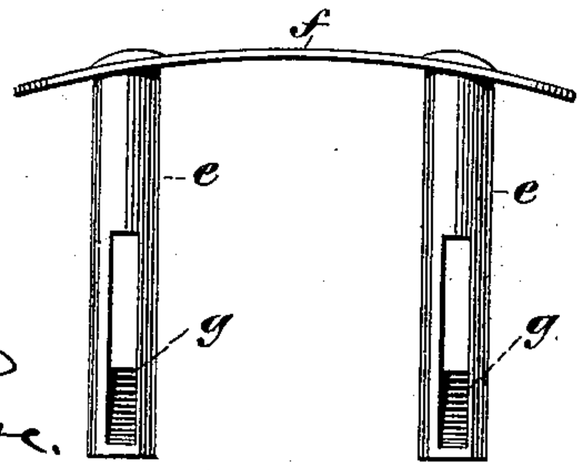


Fig. 5.



WITNESSES:

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JULIUS WODISKA, OF NEW YORK, N. Y.

PEDAL.

SPECIFICATION forming part of Letters Patent No. 620,266, dated February 28, 1899.

Application filed January 27, 1898. Serial No. 668,150. (No model.)

To all whom it may concern:

Be it known that I, JULIUS WODISKA, residing in the city of New York, State of New York, have invented certain new and useful Improvements in Pedals, of which the following is a specification.

My invention relates to pedals, and has for its object to produce a pedal which will securely grip the shoe of a rider when pressed downward.

To this end my invention consists in the construction hereinafter claimed.

My invention will be understood by referring to the accompanying drawings, in which—

Figure 1 is a broken-away plan view of a pedal embodying my invention. Fig. 2 is a longitudinal section thereof on line 2 2 of Fig. 1. Fig. 3 is a transverse section on line 3 3 of Fig. 1. Fig. 4 is a side view of one of the clamps; and Fig. 5 is a plan view of the clamp, showing its actuating-rods.

In the drawings, *a* is the pedal-shaft, which is shown in the present instance as embraced by a pair of curved plates *b*, which are secured together by rivets *c* or other suitable fastening devices and support guides *d*. The rods *e* constitute actuating means for the foot-clamps and are guided by the tubes *d*. These actuating-rods are shown as slotted and provided with an incline or cam-face *g* at the inner end of the slot. The rods are pressed outwardly by spring-pressure, the spiral spring *h* being inclosed within the guides for this purpose and bearing upon the inner ends of the actuating-rods. The foot-sustaining tread *i*, freely movable up and down, is provided with downwardly-depending lugs *j*, provided with cam-faces *k*. These lugs extend through the slotted guides and engage the cam-faces *g* of the actuating-rods *e*. The lugs *j* are shown as terminating in hooks *l*, which engage beneath the cam-faces *g* and keep the tread in place. The treads may likewise be provided, if desired, with catches *m*, which when turned into the dotted-line position shown in Fig. 3 will strike against the plate *b* and prevent the tread from being removed until the said catches are turned into the full-line position, when hand-pressure may be brought to bear upon the clamps to force them together, whereupon the tread may be freely removed and the clamps likewise thereupon removed, the said parts mutually holding each other in place. The clamps are preferably slotted, as shown at *n*, in order to accommodate the sole of a rider's shoe, so that the foot will be securely gripped at the right time.

The mode of operation of my device will be readily understood. By pressing down upon the tread the cam-faces *k* will bear upon the cam-faces *g* and force the actuating-rods *e* inward against the pressure of the spring *h*, thereby bringing the clamps *f* against the sole of the rider's foot, which rests upon the tread *i*. When the rider removes his foot from the tread *i*, the spring *h* forces out the actuating-rods *e*, and thereby relieves the pressure on the sole of the rider's shoe, which may thereupon be removed from the pedal, so that by pressing down upon the pedal the clamps are brought in to firmly grip the sole and by releasing the pressure the sole is released.

What I claim, and desire to secure by Letters Patent, is—

1. In a bicycle-pedal, the combination of clamps provided with slotted rods for actuating the same and a movable tread provided with cam-faces for engaging the slots of the operating-rods of the clamps.

2. In a pedal, the combination of foot-clamps one at least of which is laterally movable, guided actuating means for moving the said movable foot clamp or clamps, and a vertically-movable foot-sustaining tread carrying a cam-face directly engaging the guided foot-clamp-actuating means.

JULIUS WODISKA.

Witnesses:
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