(No Model.)

P. BRUST.

PADLOCK.

No. 495,217. Patented Apr. 11, 1893.

Fig. 3.

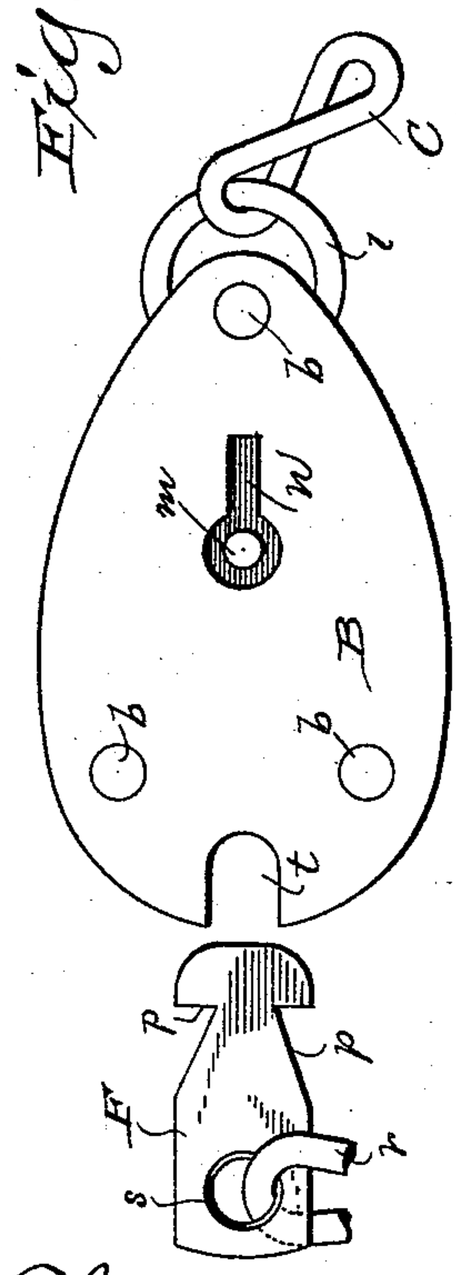

Fig. 2.

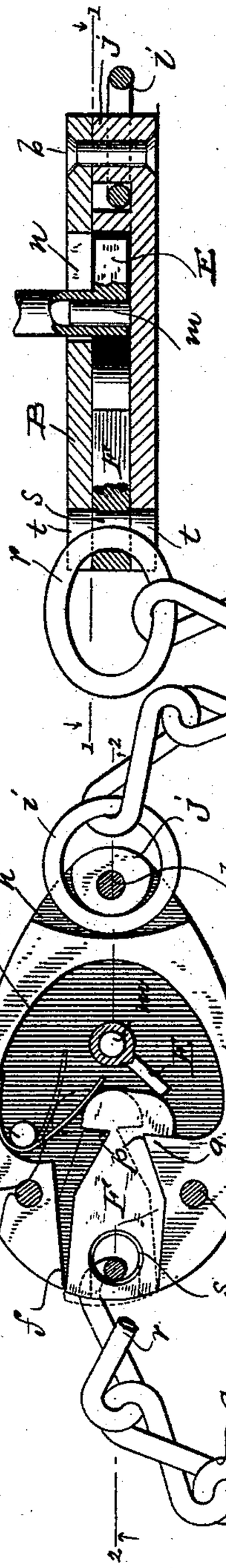

Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

PETER BRUST, OF ST. FRANCIS, WISCONSIN.

PADLOCK.

SPECIFICATION forming part of Letters Patent No. 495,217, dated April 11, 1893.

Application filed August 11, 1892. Serial No. 442,768. (No model.)

To all whom it may concern:

Be it known that I, PETER BRUST, a citizen of the United States, and a resident of St. Francis, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Locks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple one-spring padlock particularly designed for use in connection with a chain permanently joined at its ends to the parting sections of said lock, and a further object of said invention is to obtain an automatic disengagement of said parting sections coincident with the operation of a suitable key. With these objects in view my invention consists in certain peculiarities of construction and combination of parts to be hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings: Figure 1 represents a horizontal section taken on line 1—1 of the succeeding figure, and illustrates my improved lock with the ends of a chain permanently connected to the parting sections thereof, these parting sections being shown as engaged and about to separate, coincident with the turn of a key also illustrated in said figure. Fig. 2 represents a longitudinal section taken on line 2—2 of the preceding figure, and Fig. 3 a plan view illustrating the parting sections of the lock disengaged.

Referring by letter to the drawings A represents the body portion of my lock provided with a face plate B held in place by rivets *b* or other suitable means. The body portion A and its face-plate B may be of any suitable contour other than that herein shown, and it is preferable to make said body portion of one piece of suitable metal cast or otherwise formed, but in any event said body portion of the lock is provided with a recess *c* and an entrance *f* that intercepts said recess, the latter and the entrance being of such contour as to form the shoulder *g* illustrated in Fig. 1. I also prefer to provide the body portion A of the lock with another recess *h* for the reception of an end link *i* of a chain C, this link being held in place by means of the face-plate B and a stay-block *j* on said body portion of the lock. Retained between a pin *k* and adjacent boundary of the recess *c* in the body portion A of the lock is a spring D free at both ends, but having one of the latter normally in position transverse to the entrance *f*, above specified. Another pin *m* in the body portion A of the lock registers with a key-hole *n* in the face-plate B, and designed to turn on the latter pin is a detachable right angle key E, plainly illustrated in Figs. 1 and 2.

The several parts above described, excepting the chain C and the key E, constitute one section of my lock, and the other section of the same is in the form of a plug F preferably rounded at its inner corners and having its sides provided with notches *p* of a contour corresponding with the shoulder *g* in the former section of said lock. While it is preferable to notch both sides of the plug F one of the notches may be omitted without departure from my invention and when the lock is for use in connection with a chain, that end *r* of the latter not connected to the body portion A, as above described, is engaged with an eye *s* in the outer end of said plug.

The plug F constitutes another section of the lock and is approximately the same in width as that of the entrance *f* in the other section of said lock. To join the lock-sections the one F is inserted in the entrance *f* of the other and pushed in against the spring D, the resistance of the latter causing a notch *p* of the former lock-section to engage with the shoulder *g* of said other lock-section, as shown in Fig. 1, this engagement being positively maintained until the key E is employed to break the same. When the lock-sections are joined to the ends of a chain, the larger one of said sections is preferably notched on opposite sides of its entrance *f* to give clearance for the chain link engaged with the plug E that constitutes the smaller one of the aforesaid lock-sections, the notches *t* being fully illustrated in Figs. 2 and 3. The key F being engaged with the pin *m* and turned in the proper direction, the plug or lock-section E will be forced out of engagement with the locking shoulder *g* against the resistance of the spring D as shown by dotted lines in Fig. 1, and this spring being now free to assume its normal position, said plug or lock-section

will be thus automatically ejected from the other lock-section, this being one of the features of advantage in connection with my device. The lock and chain herein described constitute a device especially designed for securing bicycles.

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

1. A lock comprising two detachable sections, one of which has an entrance and recess of such relative contour as to form a shoulder, a pin arranged in the recess, a spring free at both ends but retained between the pin and adjacent boundary of said recess to normally extend across said entrance; the other lock-section notched to correspond with the shoulder in the former one, and a key for actuating the notched lock-section against resistance of said spring, substantially as set forth.

2. A lock comprising a section having an entrance and recess of such relative contour as to form a shoulder, a stay-block in another recessed portion of this lock-section, a chain having a link thereof engaged by the stay-block, a pin in the former recess of said lock-section, a spring free at both ends but maintained between the pin and boundary of the adjacent recess to have one of its ends normally extend transverse to said entrance, another section attached to the chain and notched to conform with the shoulder of the former section, and a key for actuating the notched lock-section against resistance of said spring, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

PETER BRUST.

Witnesses:
N. E. OLIPHANT,
H. H. MEIXSELL.