T. H. WICHERT.
Padlock.

No: 214.736. Patented April 22, 1879.

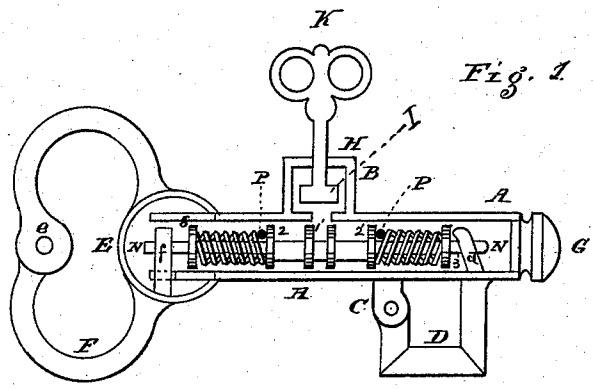


Fig. 1.

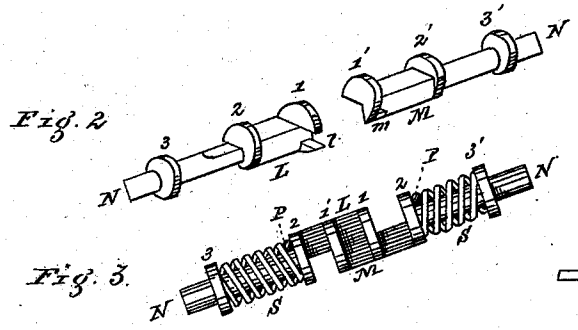


Fig. 2.

Fig. 3.

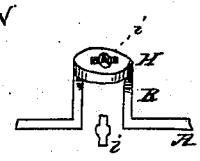


Fig. 4.

WITNESSES.

Chas. E. Long

W. Michael

INVENTOR.

Theodor Heinrich Wichert

# UNITED STATES PATENT OFFICE.

THEODOR H. WICHERT, OF LANCASTER, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM P. WIRTH, OF SAME PLACE.

## IMPROVEMENT IN PADLOCKS.

Specification forming part of Letters Patent No. **214,736**, dated April 22, 1879; application filed March 11, 1879.

*To all whom it may concern:*

Be it known that I, THEODOR H. WICHERT, of Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in a Double-Hasp Lock, of which the following is a specification.

This invention relates to a double-hasped and key-shaped lock, applicable to double doors or two separate parcels or boxes.

The accompanying drawings, with the letters of reference marked thereon, and a brief description, will enable those skilled in the art to make and use the same.

Figure 1 shows a section with all the parts in place; Fig. 2, a perspective illustration of the two bolts separated. Fig. 3 shows a top view of the overlapping or interlacing flanges in position, with the coiled springs in place. Fig. 4 shows the outer and inner key-holes reversed in position.

The barrel A of this lock is a cylinder open at both ends, to which a raised key-chamber, B, is centrally affixed. The covering-plate H, Fig. 4, has the key-opening made longitudinally; but the corresponding opening into the barrel is made crosswise in the same, or reversed in position. On the opposite side of said barrel is a slotted lug, C, to which a right-angled hasp, D, is hinged, entering the barrel through an opening to receive the bolt M N. The outer end of said barrel is closed by a knob-plug, G, as shown. The slotted curved section on the other end has a rounded head, E, into which the barrel is inserted, or it may be cast with it. This head E is open beneath, to receive the shank or locking end of the hasp F, which is hinged at *e*, and receives the bolt N L.

There are two bolts within the tube or barrel A, each provided with three flanges and a coiled spring, S. Fig. 3 shows their position when extended, the inner flange of the one embracing the limb of the other interchangeably.

The bolt L, Fig. 2, shows a square notch, *l*, cut out of the flange 1, to receive the limb or square side of the bolt M. The flange 1′ has also a right-angled notch cut out, so that said flange 1′ on M comes on the left side of the central key-space of L M, and the flange on L to the right side. Thus the inner flanges, 1 1′, are in a reverse position to the moving direction of the sliding bolts with respect to the action of the leverage or ward I on the key K.

The coiled springs S may be fastened at the outer ends, but are held between the flanges 2 3 2′ 3′ of the bolts, and prevented from following the sliding bolt by a check-pin, P, entering from the outside through the case, passing over the bolt on each side of the key-space, and between flanges 2 2′ and the inner coil of the springs. This holds the spring, when the bolts are forced in by the leverage of the key acting on the inner flanges in their reversed position, drawing the bolts in by being centrally, as it were, wedged apart. The bolts thus slide farther over each other centrally, and on relaxing the action of the key or withdrawing it the contracted springs react and bring the flanges 2 2′ of the bolts back against pin P, and thereby push the bolts out the desired distance.

The several flanges on the bolts are of the diameter of the bore of the cylinder, so as to form a guide to their sliding action and keep them in line, as well as for embracing or overlapping centrally.

The two pins P through the case fix or govern the spring action, and also prevent displacement or turning of the bolts within the case or barrel.

Altogether my device forms a novel and strong lock, applicable to various purposes.

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

The combination of a double-hasped key-shaped lock, A F D, sliding bolts L M, provided with notched or gripe flanges 1 1′, flanges 2 3 2′ 3′, and coiled springs S, arranged between the latter, substantially as shown, as and for the purpose specified.

THEODOR HEINRICH WICHERT.

Witnesses:

CHAS. E. LONG,

W. MICHAEL.