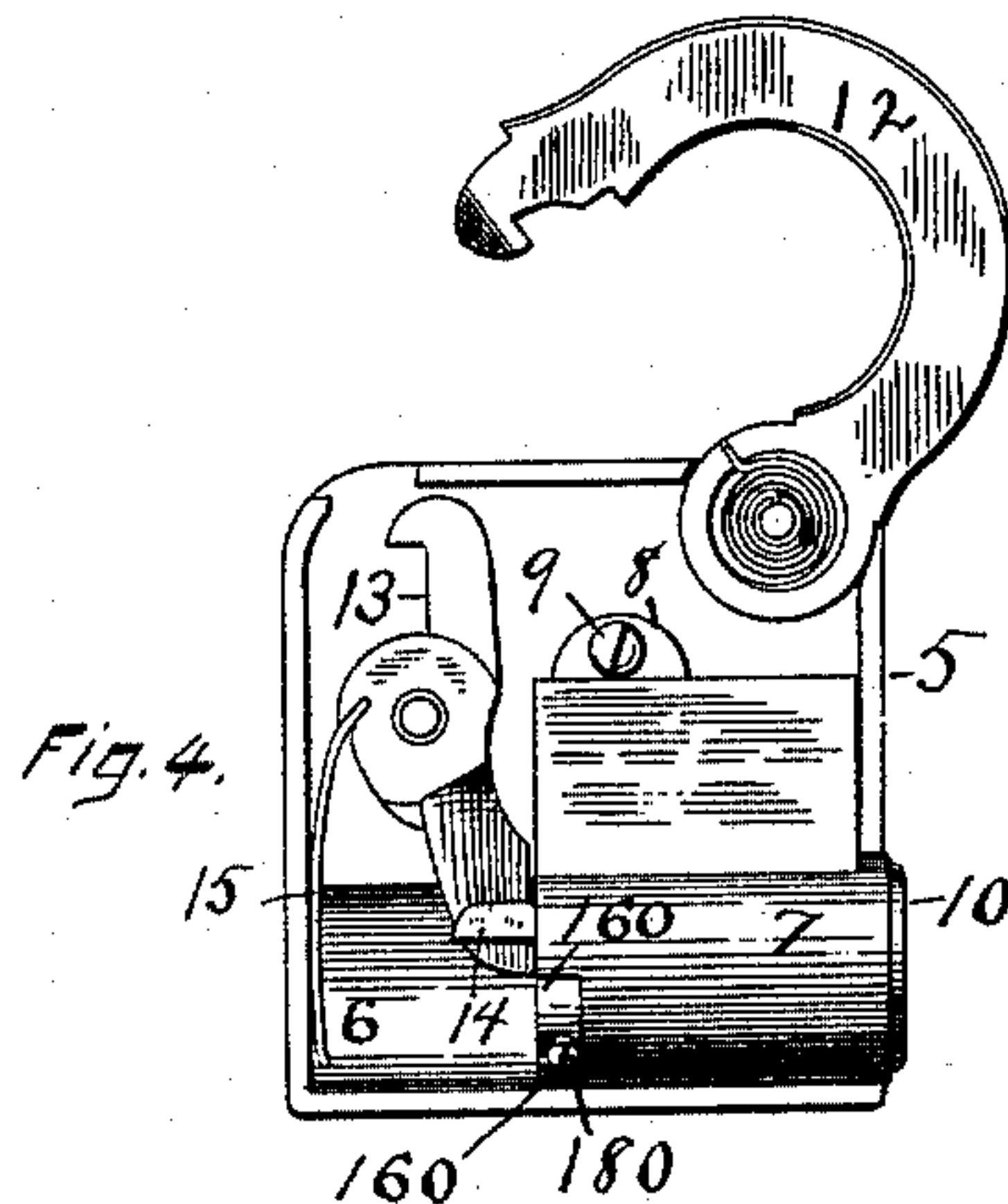
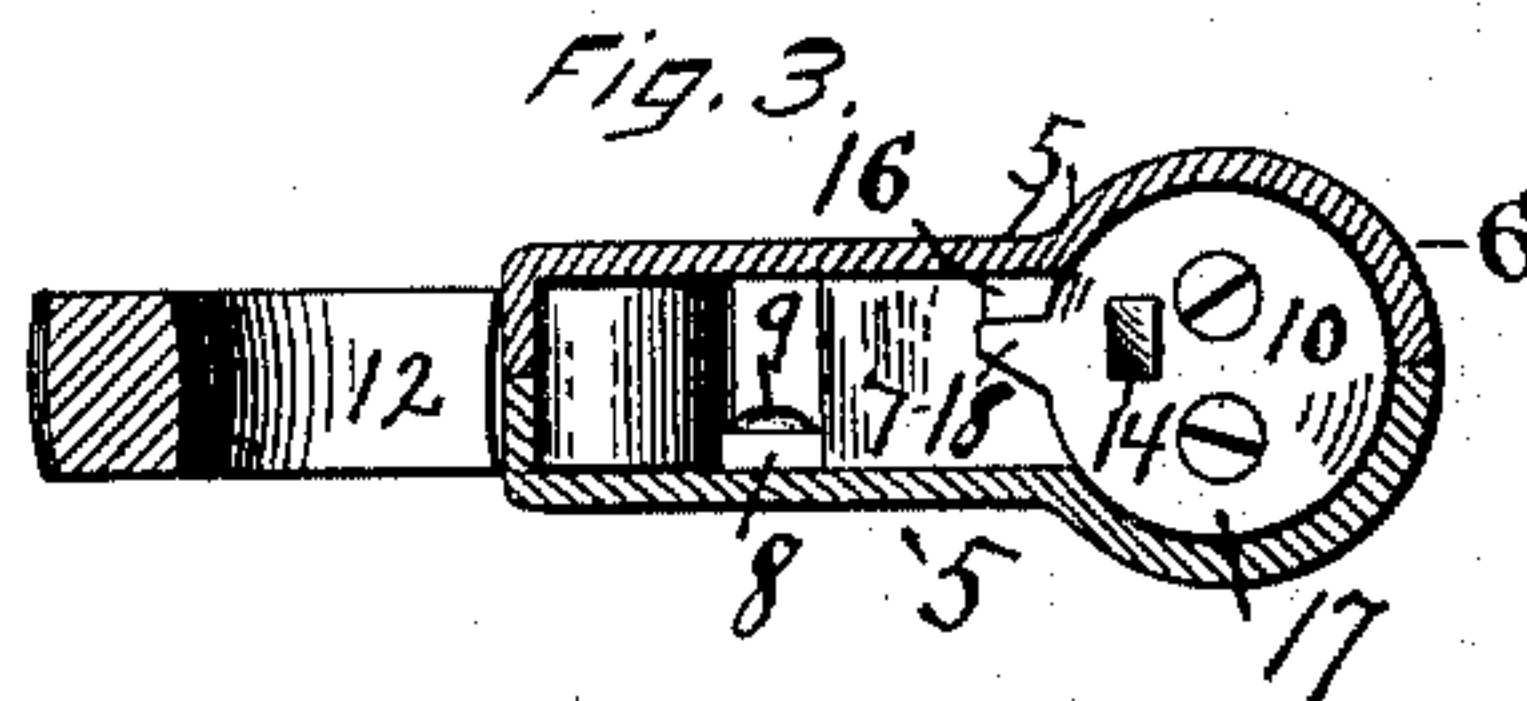
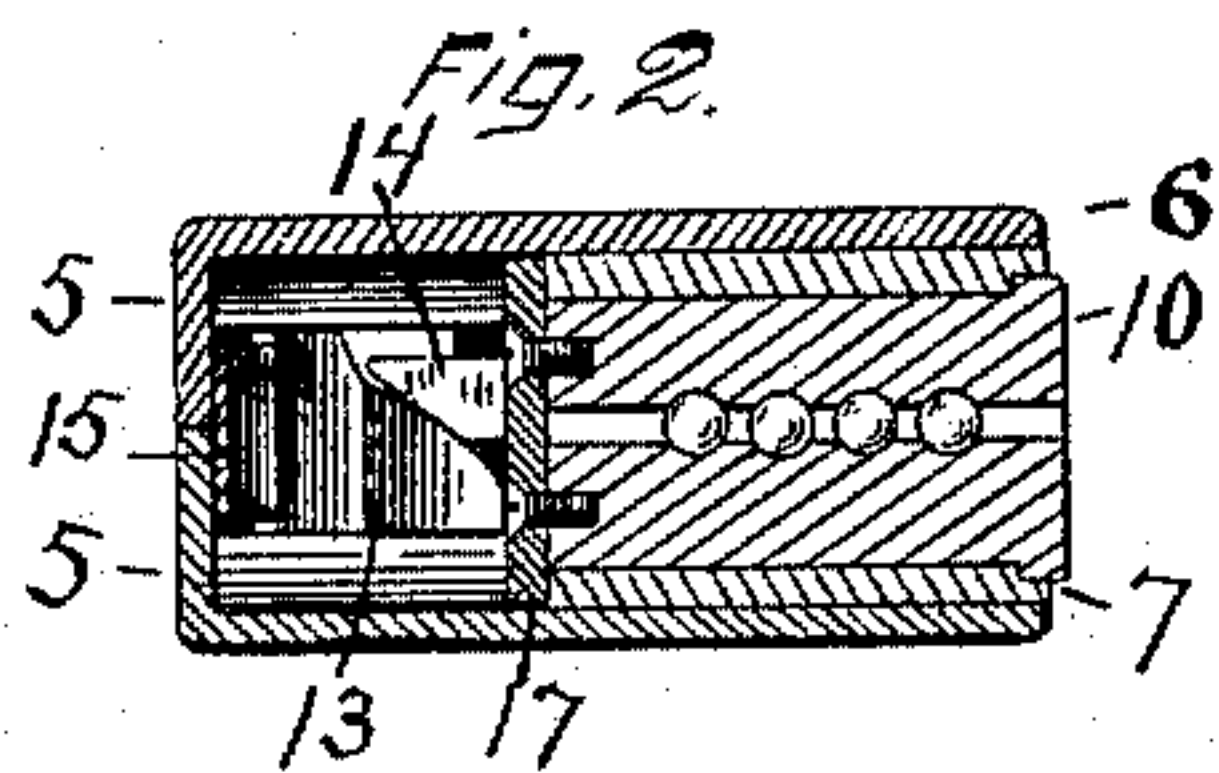
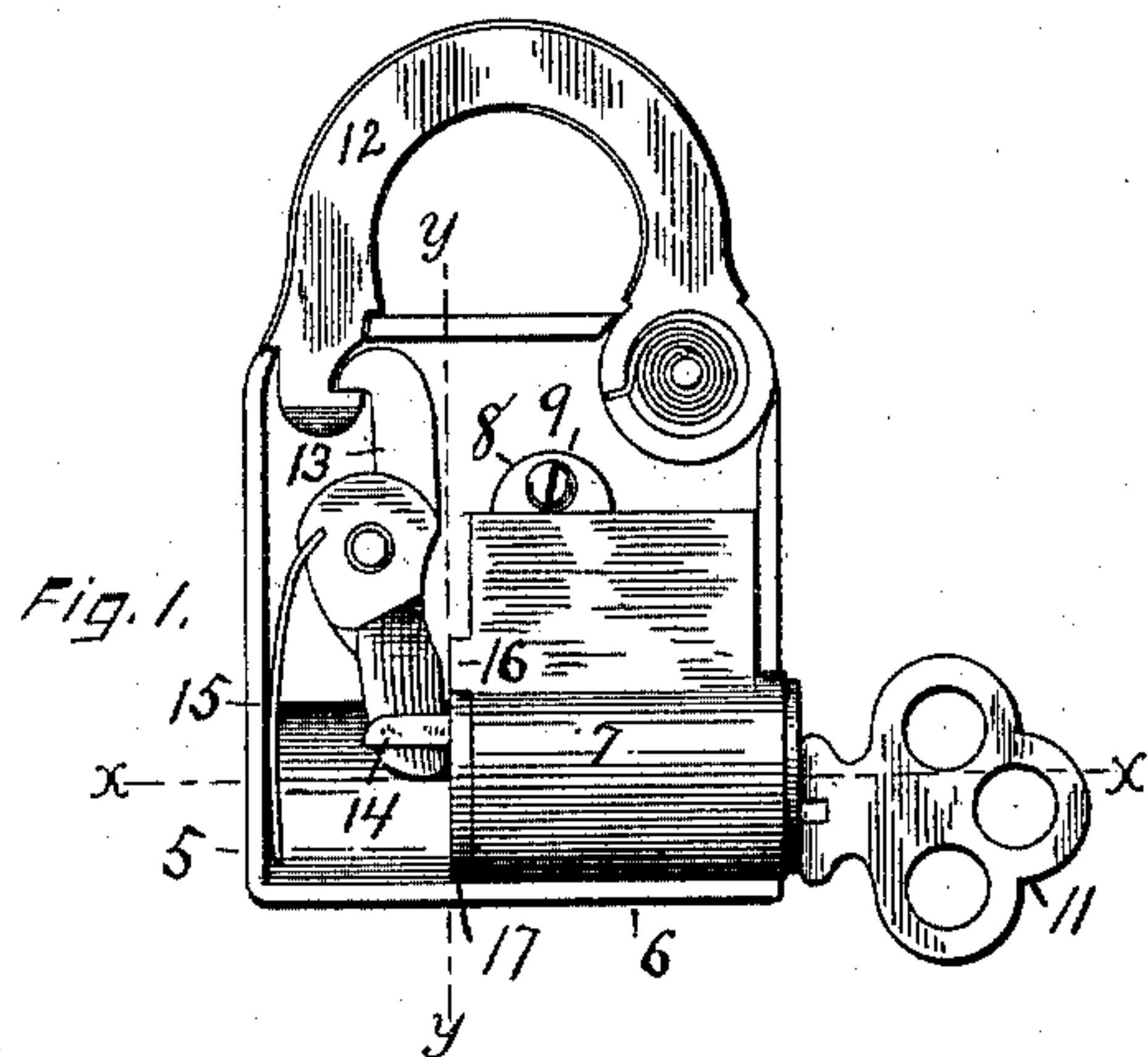


(No Model.)

E. A. JUDD.
PADLOCK.

No. 483,383.

Patented Sept. 27, 1892.



Witnesses.

WITNESSES.
John Edwards Jr.
Brayton S. Lewis.

Inventor.

Inventor.
Edward A. Judd.
By James Shepard.
Atty.

UNITED STATES PATENT OFFICE.

EDWARD A. JUDD, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
CORBIN CABINET LOCK COMPANY, OF SAME PLACE.

PADLOCK.

SPECIFICATION forming part of Letters Patent No. 483,383, dated September 27, 1892.

Application filed June 8, 1892. Serial No. 435,966. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. JUDD, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Padlocks, of which the following is a specification.

My invention relates to improvements in padlocks; and the chief object of my improvement is to construct a sheet-metal case which is especially adapted to receive the shackle and bolt of the separately-formed case and cylinder of a pin-tumbler lock.

In the accompanying drawings, Figure 1 is a front elevation of my padlock with half of the case removed. Fig. 2 is a transverse section of my padlock on the line $x x$ of Fig. 1. Fig. 3 is a vertical section on the line $y y$ of Fig. 1; and Fig. 4 is a front elevation of my padlock in a slightly-modified form, the front half of the case being removed, as in Fig. 1.

I construct the case of two like parts 5 5, the same being struck up in dies from sheet metal, the upper end being of ordinary form, while the lower end is of a cylindrical form, as at 6, to adapt it to receive the cylindrical shell of the case 7 of an ordinary pin-tumbler lock. The upper part of said case, which contains the ordinary springs and pins of a pin-tumbler lock, may rest upon the flat portion of the main case, as shown. I also provide the case 7 of this pin-tumbler lock with a lug 8, through which a screw 9 may be passed in order to secure the separately-formed pin-tumbler-lock case to one of the parts 5 of the case proper. The cylindrical shell of the pin-tumbler-lock case 7 is provided with an ordinary slotted cylinder or plug 10 for the application of the ordinary pin-tumbler-lock key 11. The two parts of the case 5 5 are provided at the upper end with the ordinary padlock-shackle 12, and also at one side with a swinging bolt 13, the upper end of which engages the shoulder of the staple, while the lower end, which is beveled, is immediately in front of and adapted to be engaged by the beveled wing 14 of the

pin-tumbler-lock cylinder or plug 10. The swinging bolt 13 is provided with a spring 15 for holding its respective ends in proper position relatively to the shackle and wing 14. In the preferred construction the case 7 of the pin-tumbler lock is provided with a stop-lug 16, and the wing 14 is rigidly mounted on a disk 17, that is made rigid with the end of the cylinder or plug 10. Said disk is also provided with an arm 18 for engaging the stop-lug 16. This disk 17 also serves the purpose of securing the hub 10 in the cylindrical portion of its case 7. The parts being thus constructed and put together, the key 11 is inserted in the pin-tumbler lock, so as to set its tumblers in the ordinary manner, and the key cylinder or hub is then partially rotated, carrying with it the wing 14, which, pressing on the beveled lower end of the bolt, forces that bolt against its spring and releases the upper end from the shackle. The arm 18 of the disk 17 will then strike the case and prevent the cylinder from being thrown farther. Upon releasing the key the spring 15 returns the spring-bolt 13 to its normal position, in doing which the beveled end of the bolt engages the wing 14 and rotates the cylinder in the reverse direction until it is stopped by the arm 18 engaging the stop-lug 16, as shown in Fig. 3, thereby stopping the cylinder in the proper position for the withdrawal and insertion of the key.

Instead of the disk 17, with its arm 18, and the stop-lug 16 on the case I may form the wing 14 directly on the end of the cylinder or plug, as shown in Fig. 4, and secure the cylinder 6 to its case and provide suitable stop devices by the insertion of the stop-screw 180, the case being slightly recessed to form stop-shoulders 160 for the screw to engage and stop the cylinder in its rotation in the same relation to the bolt and position for introducing the key as before described.

I claim as my invention—

1. The herein-described padlock, having a divided case with the shackle and boltwork mounted thereon and a separately-formed pin-

tumbler lock and case, with said case secured within said divided case, substantially as described, and for the purpose specified.

2. In a pin-tumbler lock, the combination
5 of the spring-actuated bolt 13, the cylinder provided with the wing 14, arranged to act upon said bolt and also to be acted upon by said bolt, and stopping devices for limiting

the rotation of the cylinder under the influence of said spring-actuated bolt and stopping it in the proper position for the insertion of the key, substantially as specified. 10

EDWARD A. JUDD.

Witnesses:

P. H. LAURENCE,
F. O. BOOTH.