

E. W. BASSICK.
LOCK.

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1,061,442.

Patented May 13, 1913.

Fig. 1.

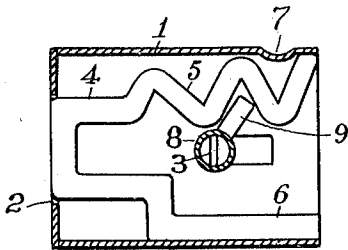


Fig. 2.

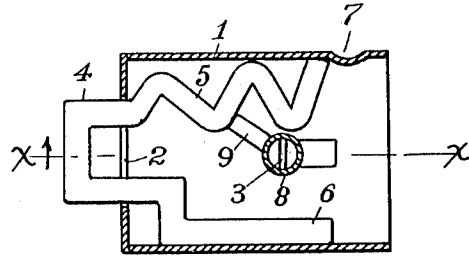


Fig. 3.

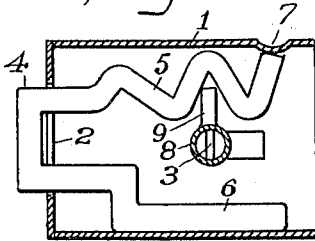
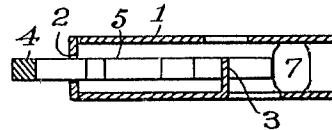


Fig. 4.



WITNESSES:

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LOCK.

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To all whom it may concern:

Be it known that I, EDGAR W. BASSICK, a citizen of the United States, residing in the city of Bridgeport, county of Fairfield, State of Connecticut, have invented certain new and useful Improvements in Locks; and I do 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.

My invention relates to certain improvements in locks but more particularly has reference to a very cheap form of lock comprising in its structure simply a sheet metal casing and a skeleton spring bolt, the latter adapted to be operated by an ordinary key having a plain bit with no wards whatsoever, and with these ends in view my invention consists in the details of construction and arrangement of parts hereinafter fully described and then particularly pointed out in the claims which conclude this description.

In the accompanying drawing Figures 1 and 2 are sectional elevations of the casing showing the bolt respectively in retracted and projected positions—Fig. 3 a view similar to Fig. 2 except that the bolt is shown partway projected, and Fig. 4 a sectional elevation taken at a plane at right angles to that in which the other views are taken.

Similar numerals of reference denote like parts in the several figures of the drawing. 1 is the casing which is made of sheet metal and is provided at the forward end with a slot 2 for the accommodation of the nose of the bolt, while a key post 3 is cut from the stock of the casing and bent upwardly.

The bolt is made in skeleton form from a single piece of wire flattened or from sheet metal, the front end being bent to form the nose 4 of the bolt while the rear portions are distended to form legs 5, 6, the leg 6 being perfectly straight and lying snugly against the wall of the casing so as to afford a good guide for the movement of the bolt while the leg 5 is sinuous and normally abuts against the wall of the casing only at two points, namely, the extreme end and one of the sinuous bends.

One side wall of the casing is dented inwardly as shown at 7 and when the bolt is retracted this dented portion will extend be-

tween the rear end of the leg 5 and the succeeding bent portion of said leg that abuts against the casing.

An ordinary barrel key is utilized as is shown in section at 8 and from the barrel projects a plain bit 9 which has a play between two sinuous bends of the leg 5. By throwing the bit forward it will engage the leg 5 and project the bolt, and by the reverse movement of said bit the bolt will be retracted.

When the bolt is projected the extreme rear end of the leg 5 will ride upon the indentation 7 causing the leg 5 to yield resiliently while at the same time the action of the bolt will thereby be greatly steadied; when the bolt has been fully projected the extreme rear end of the leg 5 will be at the forward base of the dented portion 7, and the bolt cannot accidentally become retracted, and when the bolt is retracted by the action of the key the leg 5 will again yield resiliently and the bolt will be steadied until it is fully retracted when the extreme end of the leg 5 will be at the outer base portion of this dent 7, and when in this position the bolt cannot be accidentally projected.

All portions of the bolt are in the same plane and since the bolt is made entirely of wire or sheet metal it follows that it will have a good spring action.

There are no raised portions whatever on the bolt such as would be necessary if the key were to cooperate with specially formed shoulders, in which instance the key would of course be provided with wards, whereas in my improvement the key bit is perfectly plain and operates in the same horizontal plane with the wire bolt.

I claim—

1. In a lock, the combination with a flat sheet metal casing having one side dented inwardly, of a skeleton bolt formed of spring metal having a nose portion and distended rear legs all in the same plane, one leg being straight and lying snugly against the wall of the casing while the other leg is sinuous and normally engages the casing at opposite sides of said dented portion.

2. A lock, comprising a casing and a key post with an indentation formed at one side of said casing, a skeleton bolt made of flattened wire and comprising a nose portion adapted to be projected and retracted

through a suitable opening in the casing, distended rearwardly projecting legs one of which is straight and lies snugly against one wall of the casing while the other leg is sinuous and normally engages said casing on opposite sides of said indentation, and a suitable key engaging said post and having a plain bit adapted to operate against bent portions of the sinuous leg for

the purpose of projecting and retracting 10 the bolt.

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

EDGAR W. BASSICK.

Witnesses:

BERTHA T. CUTTING,

MILDRED G. CLINTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
