

A. S. Blake,

Padlock.

N^o 84, 162.

Patented Nov. 17, 1868.

Fig. 1

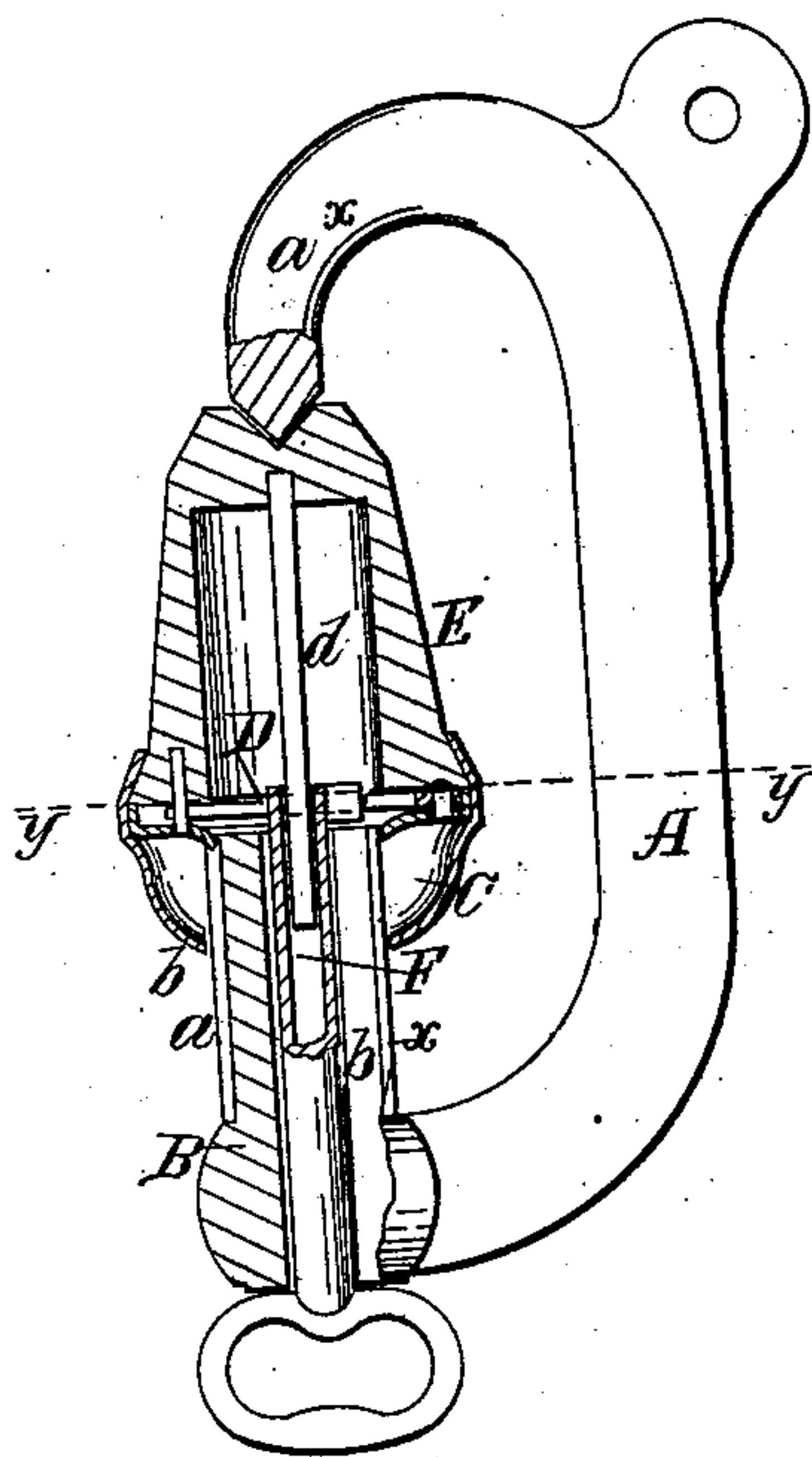
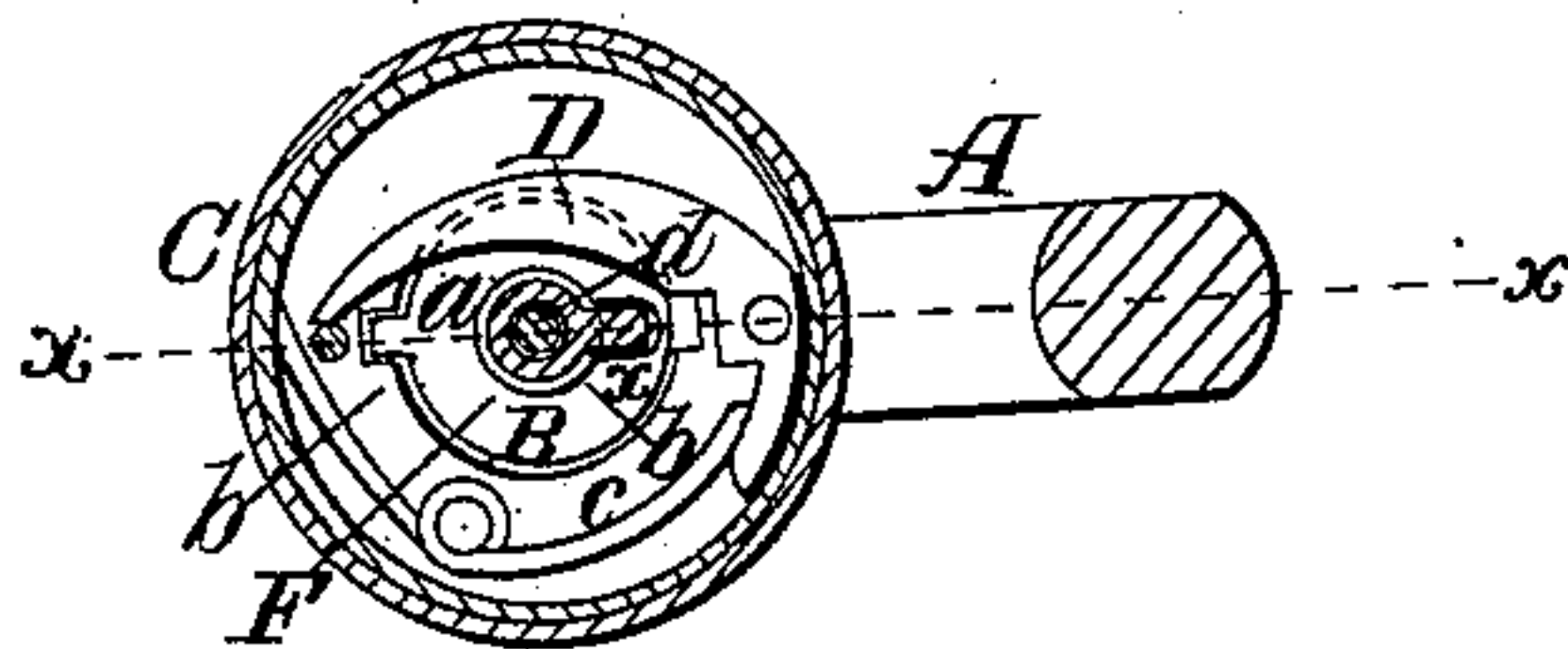


Fig. 2



Witnesses:

*Wm A Morgan
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Inventor:

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AMOS S. BLAKE, OF WATERBURY, CONNECTICUT.

Letters Patent No. 84,162, dated November 17, 1868.

IMPROVEMENT IN PADLOCKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, AMOS S. BLAKE, of Waterbury, in the county of New Haven, and State of Connecticut, have invented a new and useful Improvement in Locks; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, fig. 2.

Figure 2 is a horizontal section of the same, taken in the line *y y*.

Similar letters of reference indicate like parts.

This invention relates to a new and improved lock, and is designed to supersede the various locks used for freight or baggage-car doors, and the ordinary padlocks generally, as the invention is applicable in all cases where the ordinary padlock may be used.

The object of the invention is to obtain a lock which may be used in all cases where the ordinary padlock may be applied, and without the liability of being injured by water getting within it, or being rendered inoperative, or incapable of being opened or unlocked on account of ice, objections which attend the use of the ordinary padlock.

In the accompanying sheet of drawings, A represents what may be termed the frame of the lock, which is of curved form, as shown clearly in fig. 1, and has a straight spindle, B, cast with or attached to it at its lower end, the upper part, *a*^x, of the frame being curved in such a manner as to project downward in line with the centre of the spindle B, but at some distance above it.

C is a cup, which is fitted on the spindle, so that it may be moved up and down thereon, the spindle having a rib, *a*, on its exterior, which is fitted in a notch, *b*, in the cup, the rib and notch preventing the cup from turning on the spindle.

Within the upper part of the cup C there is fitted a catch or pivoted bar, D, which, when the cup is

raised to its fullest extent, projects over the opening in the lower part of the cup, in which the spindle B works, and prevents the cup being pressed down on the spindle, a spring, *c*, which bears against the catch or bar D, having a tendency to keep the latter in this position, as will be understood by referring to fig. 2.

E represents a cone, the lower end or base of which is attached to the upper end of the cup C.

This cone is hollow the greater part of its length, in order that it may receive the spindle B, and said cone has a rod, *d*, fitted centrally in it, to serve as a key-guide, the spindle B having a key-hole, *b*^x, extending through it its entire length, as shown in fig. 1.

When the cup C is fully raised on the spindle B, the upper end of the cone E is in contact with the end of the curved upper part *a*^x of the frame A, the end of *a*^x being made conical, to fit into a recess in the upper end of the cone.

When the cup and cone are thus elevated, as shown in fig. 1, the lock is in a locked state, the cup and cone being retained in that elevated position by the catch or bar D, which is turned aside by the key F, so that the cup and cone may be pressed down, in order to unlock the lock.

This lock is extremely simple in construction, and cannot be damaged by water passing into it, nor be encased with sleet and ice in winter, so that it cannot be opened or unlocked, objections to which the ordinary padlock is liable.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The frame A, provided with the spindle B, in combination with the cup C, provided with the catch or bar D, or its equivalent, and the cone E, attached to the cup, all being constructed and arranged substantially as and for the purpose specified.

AMOS S. BLAKE.

Witnesses :

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