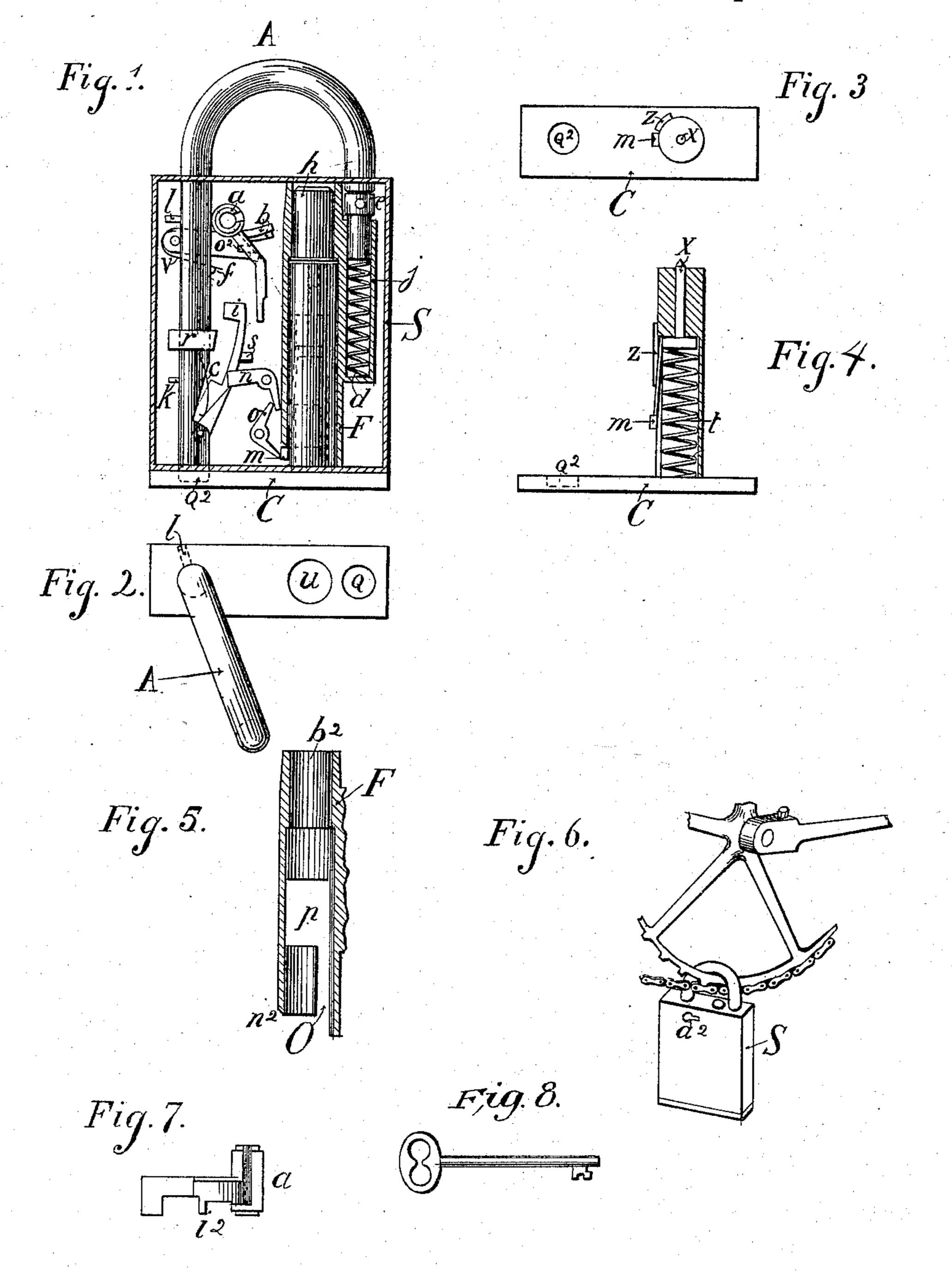
E. N. CASE. ALARM PADLOCK.

No. 589,930.

Patented Sept. 14, 1897.



Wixnesses J. Sohnson M. H. Cotton Exemple Case

UNITED STATES PATENT OFFICE.

EDWARD NEWELL CASE, OF CHICAGO, ILLINOIS.

ALARM-PADLOCK.

SPECIFICATION forming part of Letters Patent No. 589,930, dated September 14, 1897. Application filed August 10, 1896. Serial No. 602,345. (No model.)

To all whom it may concern:

Beitknown that I, EDWARD NEWELL CASE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Explosive Alarm-Padlock for Bicycles, Doors, and other Objects, of which the following is a specification.

My invention relates to an explosive alarm 10 attachment to the padlock in which the mechanism (lever, springs, &c.) is arranged to operate upon a firing-pin which comes in contact with an explosive cap or cartridge, there-

by causing an alarm.

The object of my invention is to provide a locking apparatus which, if tampered with directly or indirectly while attached to a bicycle, door, or other object, will produce an alarm. I attain this object by mechanism 20 illustrated in the accompanying drawings, in which—

Figure 1 is a sectional elevation of the entire lock locked. Fig. 2 is a plan showing the bow swung to one side ready to be attached 25 and locked. Fig. 3 is a plan of the firing device. Fig. 4 is a sectional elevation of the firing device. Fig. 5 is a section of the barrel, same as in Fig. 1, with the firing device and cartridge removed. Fig. 6 is a projection of 30 the lock as attached to a bicycle-sprocket. Fig. 7 is a side view of arm a, Fig. 1, showing slot down the side. Fig. 8 is a side view of the key.

Similar letters refer to similar parts through-

35 out the several views.

In the plate S, which constitutes the lockcasing, is the keyhole a^2 , Fig. 6, in which turns the arm a, said arm a having a slot down one side into which the key is inserted.

In the upper part of plate S (which is the lock-casing) projects the bow A, to which is attached the pawl i and spring c, that produces an outward movement to pawl i.

In the cylinder j is the plunger e, which has 45 a tendency to force the bow A from its position in Fig. 1 through the action of the spring d, the object of which is to produce automatic action to bow A while unlocking.

b b are tumblers of different form contain-50 ing the slots o2, which on turning the key coinFig. 7, to pass in, and thereby allowing arm ato turn against pawl i, thereby releasing said pawl i from double lever n while unlocking.

To insert a cartridge, the firing device C 55 must be detached from the barrel F, leaving the barrel clear for its insertion to the chamber b^2 , Fig. 5.

n and o are double levers for transmitting force from the pawl i to the trigger m.

To insert the firing device, the projection Z, Figs. 3 and 4, must be placed so as to pass through the slot O, Fig. 5, when it is free to turn into the position shown in Fig. 1, the slot O enlarging to p, Fig. 5. During the in- 65 sertion of the firing device the trigger m will catch upon the edge n^2 , drawing in the firingpin and compress the spring t, Fig. 4, as in Fig. 1. It will be seen that if force is applied to eject the bow A from its position in Fig. 1 70 its action will be transmitted to the trigger m through the medium of the pawl i and double levers n and o, causing the trigger mto slip off the edge n^2 , leaving the compressed spring free to act upon the firing-pin, thence 75 upon the cartridge h, causing concussion.

r, Fig. 1, is a bearing through which the

bow A passes.

s is a pin which limits the motion of pawl i and double lever n.

u, Fig. 2, is the muzzle of the barrel F. Q², Figs. 1, 3, and 4, is a socket for bow A to prevent the firing device C, Figs. 1, 3, and 4, from turning when locked.

Q is a passage into which the end of bow A 85

passes when locking.

l is a pin which acts as a stop to prevent bow A turning farther than is shown in Fig. 2.

k is a stop that limits the longitudinal travel of bow A.

f is a pin for keeping the springs V V in position.

V V are springs for holding the tumblers b b against the key.

The tumblers b b are common, but are suit- 95 able for a purpose set forth, and to which I attach no claim.

What I do claim as my invention, and desire to secure by Letters Patent, is-

1. In an explosive alarm-padlock the bow 100 A having attached pawl i and spring c in comcide, allowing the projection i^2 on the arm a, | bination with double levers n and o, all arranged and operating to force trigger m from edge of barrel. F provided with the edge n^2 , thereby releasing spring t, all operating when tension is brought upon said bow A substantially as set forth.

2. In an explosive alarm-padlock the firing device Chaving projection Z and socket Q² in combination with barrel F having slots O and

p and bow A all arranged to hold and lock said firing device C to padlock, substantially 10 as described.

E. NEWELL CASE.

Witnesses:

J. S. Johnson, W. H. Cotton.