D. SAWYER.

Nut-Locks.

No. 143,097. Patented September 23, 1873.

Fig. 1.

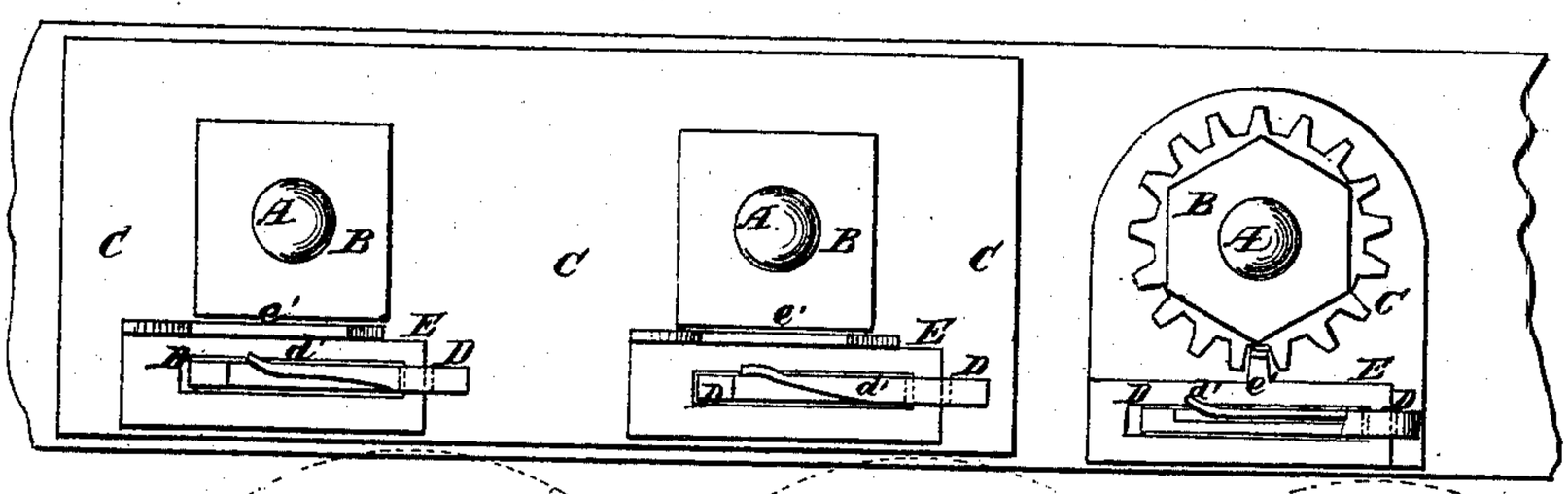
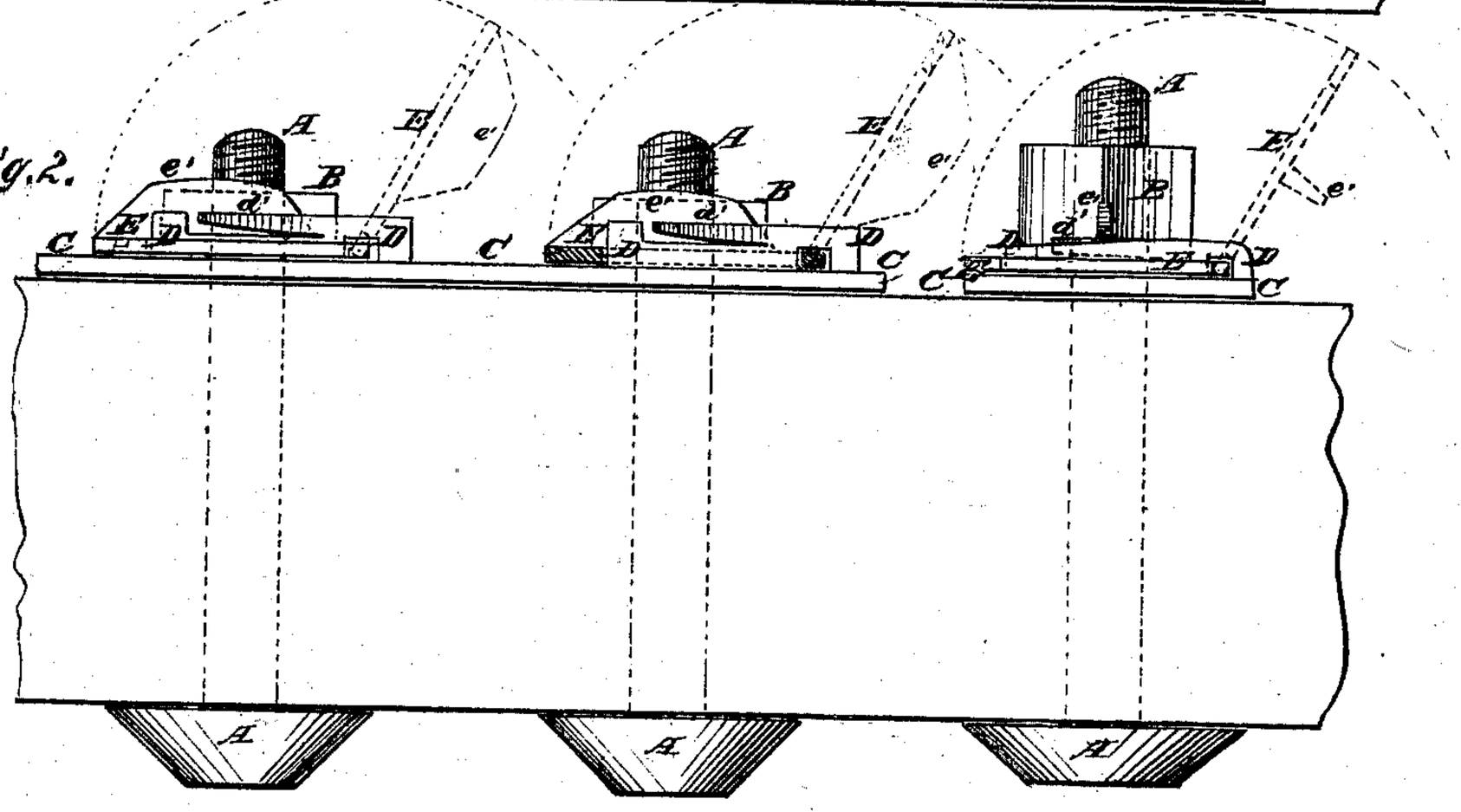


Fig. 2.



Witnesses:

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Per

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UNITED STATES PATENT OFFICE.

DANIEL SAWYER, OF WASHINGTON, INDIANA.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **143,097**, dated September 23, 1873; application filed January 18, 1873.

To all whom it may concern:

Be it known that I, DANIEL SAWYER, of Washington, in the county of Daviess and State of Indiana, have invented a new and useful Improvement in Nut-Locks, of which the following is a specification:

Figure 1 is a face view of my improved nut-lock, shown as applied to the nuts to be locked. Fig. 2 is a side view of the same.

My invention has for its object to furnish an improved nut-lock, simple in construction, inexpensive in manufacture, reliable in operation, and convenient in use. The invention consists in the pivoted slotted plate having its inner part bent outward, and the steel piece provided with a spring, in combination with the washer-plate and nut, and in the combination of the stop or catch with the pivoted slotted plate having its inner part bent outward, and with the steel catch-pieces, as hereinafter fully described.

A represents bolts, the nuts B of which are to be locked. C is a washer-plate, which is placed upon the bolts A before the nuts B are screwed on. The washers C may be small, so as to be used only with one bolt, or they may be made larger, so as to be placed upon two or more bolts when said bolts are placed near each other. To the washer C is secured one or more pieces of steel, D, which are made thin and secured edgewise to the washer, and upon the upper part of each of which is formed a spring, *d'*, standing out a little upon one side, preferably upon the side next the nut to be locked. E is a plate, which is pivoted to the pieces D near one end, and is slotted so that it may be turned down upon the washer C or turned back, as shown in dotted lines in Fig. 2. The inner edge *e'* of the slotted plate E is turned up at right angles, and the steel piece D is placed at such a distance from the nut B to be locked that the turned-up part *e'* of the plate E may rest against the side of the nut, and thus prevent the said nut from turning. The turned-up part of the plate E may be made wide, so as to bear firmly against the nut, or it may be made narrow to enter notches in a flange formed upon the inner part of the nut. Both arrangements are shown in Fig. 1. By this construction, when the plate E is turned down, the steel piece D passes through the slot in the plate E, and the spring *d'* springs out over the said plate E, preventing it from rising.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The steel pieces D, having spring *d'*, and secured edgewise to a washer, C, arranged under nuts B B, in combination with a hinged slotted plate, E, having turned-up edge *e'*, as and for the purpose described.

DANIEL SAWYER.

Witnesses:

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