

(No Model.)

A. J. TYLER.

BENCH HOOK.

No. 341,436.

Patented May 4, 1886.

Fig. 1.

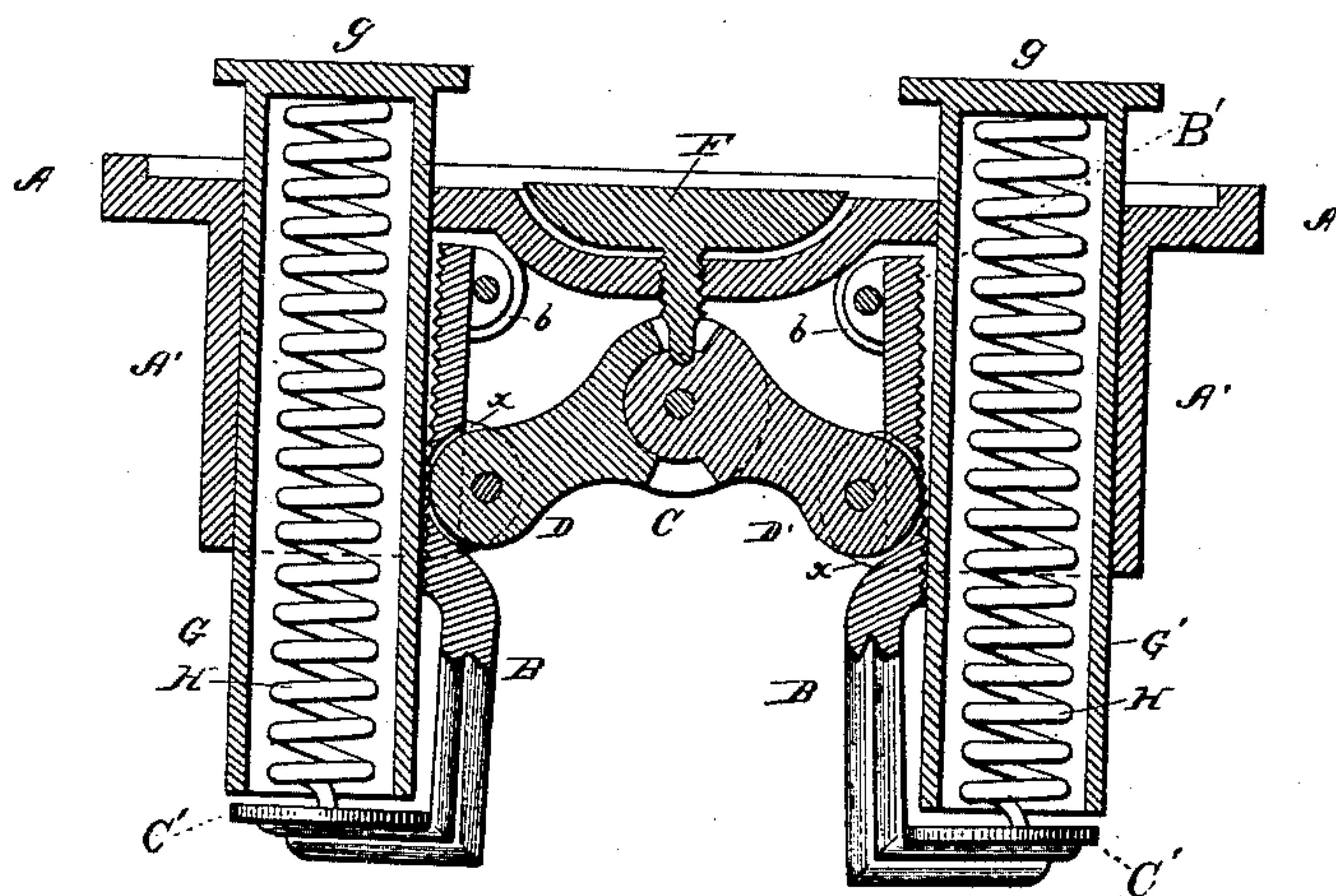
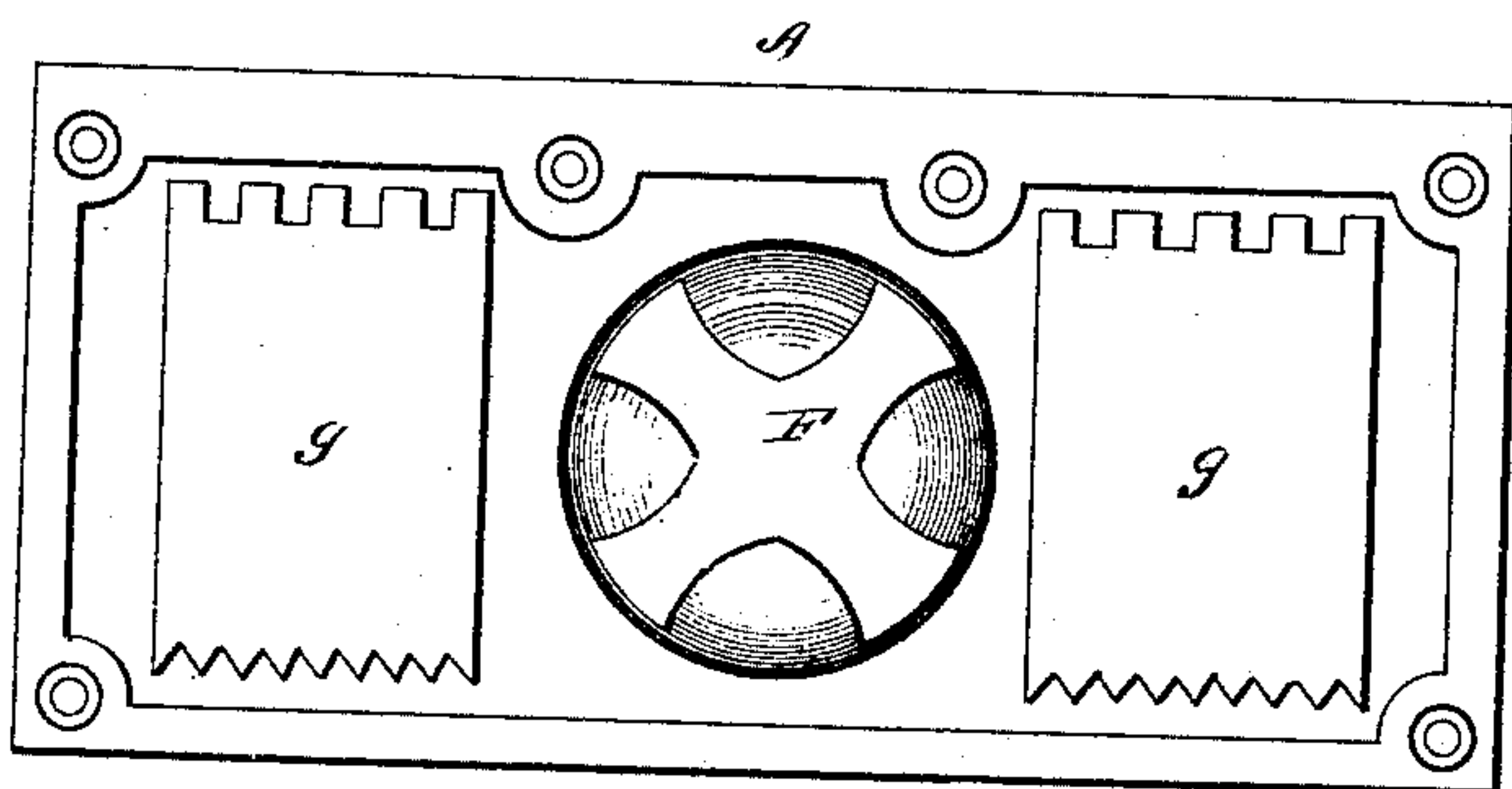


Fig. 2.



Witnesses  
Chas. Davis  
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# UNITED STATES PATENT OFFICE.

AARON J. TYLER, OF ALBION, NEW YORK, ASSIGNOR TO EDWARD C. COLE, OF SAME PLACE.

## BENCH-HOOK.

SPECIFICATION forming part of Letters Patent No. 341,436, dated May 4, 1886.

Application filed January 14, 1886. Serial No. 188,534. (No model.)

*To all whom it may concern:*

Be it known that I, AARON J. TYLER, a citizen of the United States, residing at Albion, in the county of Orleans and State of New York, have invented certain new and useful Improvements in Bench - Hooks, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to "bench-hooks," and is intended as an improvement upon an invention bearing a similar title and filed in the Patent Office November 12, 1885.

The object of the present invention is to provide a double hook and one to be used in the planing of wide boards. This object I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a vertical sectional view of my device, and Fig. 2 a plan view of same.

In the figures, A represents a rectangular metallic plate, which is let into the top of a work-bench, so that its upper surface will be flush with it, and is there secured by suitable screws. Depending from and forming a part of this plate are two hollow boxes, A' A', square internally and open at both ends.

G G represent two hollow cases, which are adapted to fit and move up and down in the boxes A' A'. These cases are open at their lower ends, and contain within them spiral springs H H.

B B represent two levers, which are serrated or roughened on their inner faces, as indicated by the letter B', their lower ends being turned at right angles to the bodies of the levers, and these turned portions are made disk-shaped, as indicated by the letter B'. The bottoms or lower ends of the springs H H rest upon and are secured to these disks. The upper ends of the levers B B are pivoted or hinged between ears formed upon the boxes A' A', as seen at b b.

C represents a toggle-lever, the two arms of which are pivoted between ears x x on the

levers B B, the center of the toggle being on a line above that of its pivoted ends.

The plate A is provided with a central depression, in which plays the prongs of the head of a set-screw, F. This set-screw passes through the bottom of the depression, and its point or lower end rests upon the center of the toggle-lever. This screw presses the toggle downward, and its two arms, D D', press the levers B B against the cases G G, and station them wherever desired.

The upper ends of the cases are represented by the solid cap-pieces g g, which have a projecting flange with serrated edges, for holding the ends of the plank or board to be planed.

The upper ends of the springs H H press against the under sides of the cap-pieces g g and cause the cases G G to move upward any required distance. The cases are there caught and held by the arms of the toggle-lever until a change of position is required. The cases are pressed downward by hand, upward by the springs, and held in position wherever desired by the toggle-lever.

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

The combination, with the plate A, having hollow dependent boxes open at both ends, of the hollow cases G, adapted to move vertically in the same, and having serrated heads, the springs H', located in said boxes, the pivoted levers B, having their lower ends provided with disks C', against which the lower ends of the springs bear, the toggle-lever D, connected to said lever C, and the set-screw F, passing through the plate A and bearing against the toggle-lever, whereby the parts are operated, substantially as specified.

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

AARON J. TYLER.

Witnesses:

CHARLES B. ANDERSON,  
EDWIN BRONSON.