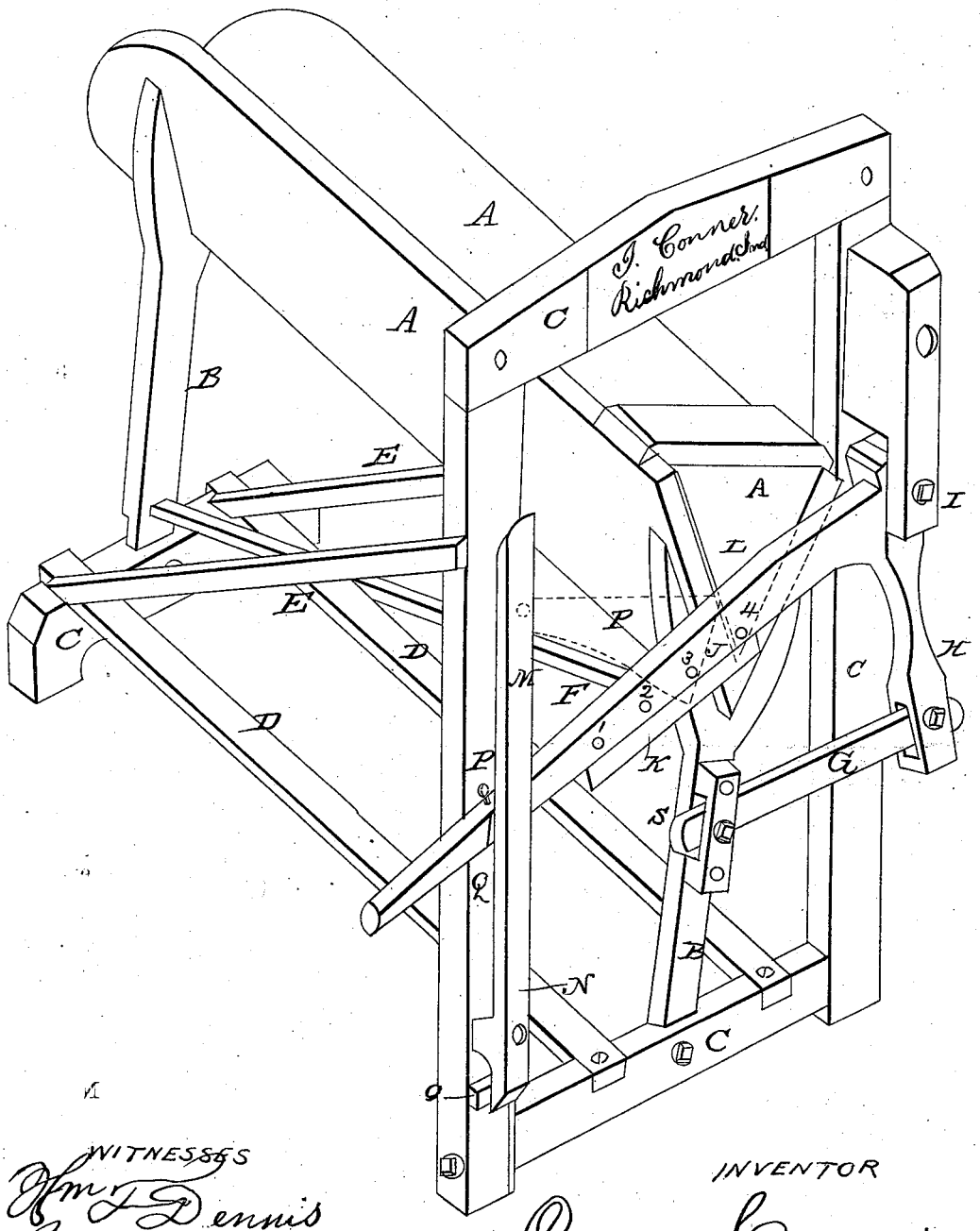
J. CONNER.

Straw Cutter.

No. 52,537. Patented Feb. 13, 1866.



WITNESSES

Wm. L. Dennis

Lord Stover

INVENTOR

James Conner

UNITED STATES PATENT OFFICE.

JAMES CONNER, OF RICHMOND, INDIANA.

IMPROVEMENT IN STRAW-CUTTERS.

Specification forming part of Letters Patent No. **52,537**, dated February 13, 1866.

To all whom it may concern:

Be it known that I, JAMES CONNER, of Richmond, Indiana, have invented certain new and useful Improvements in Straw-Cutters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the drawing which accompanies this specification, and forms a part thereof, and to the letters of reference which are marked thereon.

The nature of my invention consists in devices for giving an oscillating or vibratory motion to that part of the straw-cutter which contains the straw to be cut, in connection with the downward stroke of the knife, thus producing a slicing cut.

To enable those skilled in the art to construct and use my said invention, I will now proceed to describe the same.

In the drawing, Figure 1 is a front elevation of my straw-cutter, showing the various parts of the same.

C C C represent a frame of ordinary construction. A A is a triangular or V-shaped box, in which the straw to be cut is deposited. The box A is rigidly attached to the posts B B, the lower ends of which are pivoted to the cross-sills of the frame C.

J is a lever framed into the arm H at right angles, working on the bolt I, by which it is secured to the upright post of the frame C.

K is a knife secured to the lever J by screws 1, 2, 3, and 4, and L is a steel plate attached to the inside surface of the front end of the box A, as shown.

M is an upright spring which is attached to the post of the frame C at N by a bolt, and serves as a guide to the lever J, holding it firmly up to the steel plate L when in operation.

P is a guard framed into the upper end of the spring M, and extending to the front of the box A, serving to regulate the length of the cut straw.

D D are longitudinal braces, and E E are oblique braces, supporting the frame.

F is a brace framed into the posts B B, which support the box A.

Attached to the lower end of the arm H is a connecting-rod, G, which is secured to the post B at the point S, by means of which the oscillating motion is communicated to the box A from the lever J.

It will be seen that by depressing the lever J the arm H is carried outward, and the box A is moved toward the opposite side of the frame, describing in its course the arc of a circle as the knife descends, thus producing the important effect of a slicing or sliding cut.

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

1. The construction of a straw-cutter in such a manner as that the box or straw-receptacle shall have a vibratory or oscillating motion, as set forth.

2. The spring M with the guard P attached, constructed and operated in the manner and for the purpose as described.

3. The lever J, arm H, and the connecting-rod G, in combination with an oscillating box in straw-cutters.

JAMES CONNER.

Witnesses:

WM. T. DENNIS,
GEO. W. WOOD.