

J. LAUGHLIN.
STRAW-CUTTER.

No. 180,042.

Patented July 18, 1876.

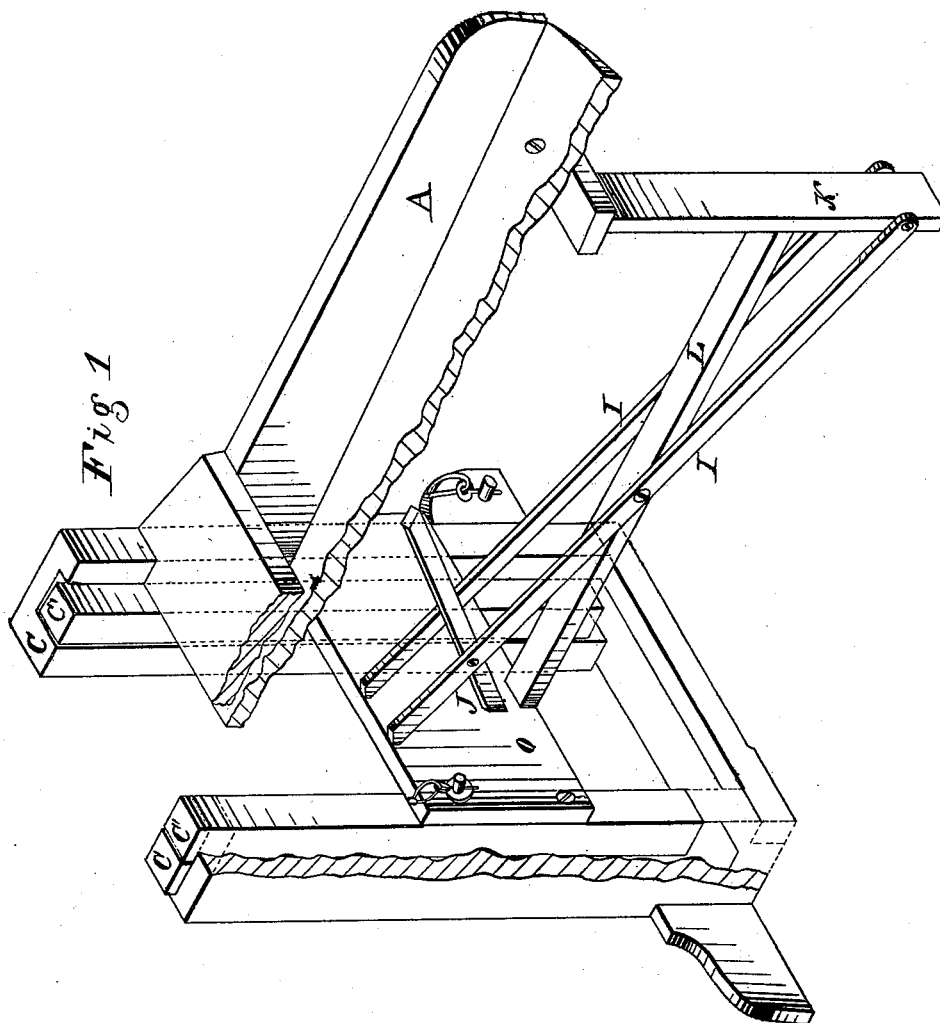
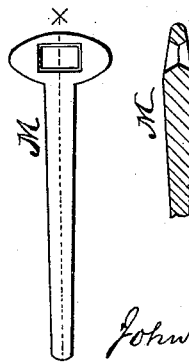
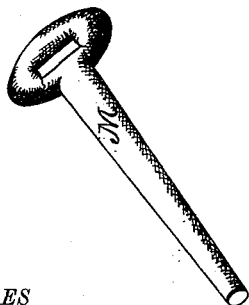


Fig 1

Fig 2



WITNESSES

H. Aubrey Toulmin
F. L. Curand

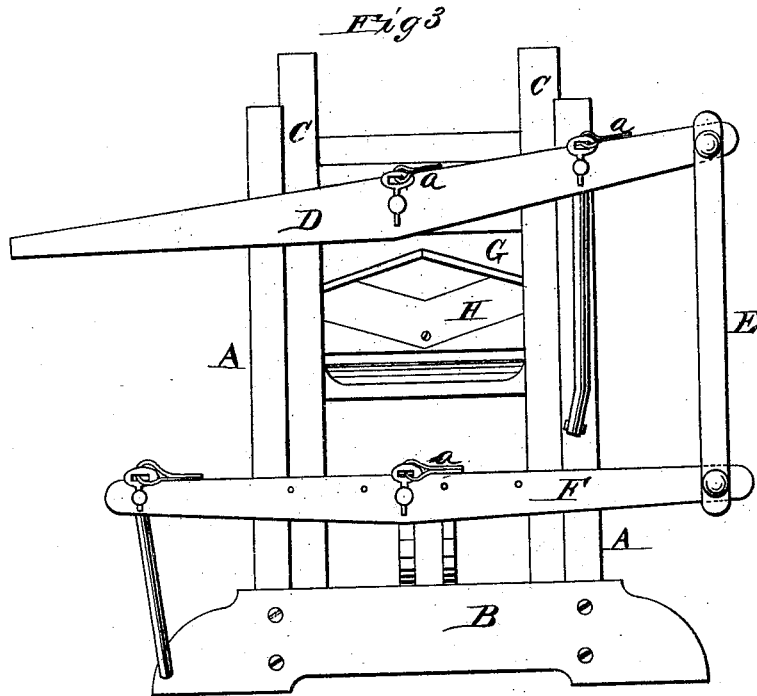
INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN LAUGHLIN, OF YORK, PENNSYLVANIA.

IMPROVEMENT IN STRAW-CUTTERS.

Specification forming part of Letters Patent No. **180,042**, dated July 18, 1876; application filed May 24, 1876.

To all whom it may concern:

Be it known that I, JOHN LAUGHLIN, of York, in the county of York, and in the State of Pennsylvania, have invented certain new and useful Improvements in Hay and Straw Cutters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improvement upon the straw-cutter as patented to me March 31, 1868, No. 76,209; and it consists in a novel, substantial, and economical mode of supporting and bracing the feed-box of the machine, as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to more fully describe it, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view with a part of the feed box or trough broken away, showing the braces thereunder. Fig. 2 represents the form of metallic pins I prefer to use in connecting the parts together. Fig. 3 represents a front view of the straw-cutter.

In the accompanying drawings, A represents a frame for a cutting-box, such as I have already represented in a former patent, having two frames, O O', which carry knives G H, and having levers D E F, which are so connected to these frames that they operate them in different or opposite directions simultaneously. K represents the rear standard, which supports the rear end of the box. I I represent two braces, which, at their rear ends, are made fast to the sides of the standard

near its bottom; then to a parallel brace, L, which is placed about half-way between the box and the bottom of this standard; then to a brace, J, beneath the box; then having their ends, with two miters, fitting snugly against the bottom of the box, as also against a board which is secured at right angles to the bottom and to the main front standards. The brace J runs at an opposite angle to the braces I I, having one end secured to the bottom of the box, and one to the board O above mentioned.

By this mode of bracing, the box is held firmly from any lengthwise movement or racking, and I am enabled thus to use only one foot or support, thus making a cheaper and better-braced, and of course stronger, box than heretofore used.

The detachable parts of my machine are preferably connected by the pins M M, of the form shown in Fig. 2, which pins are held to the frame-work by straps a.

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

The feed-trough of a straw-cutter, supported at its rear end by the single upright K, and braced to the frame-work and trough by the horizontal bar L, the two inclined braces I I, and the short brace J, all constructed and arranged substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of April, 1876.

JOHN LAUGHLIN.

Witnesses:

JOHN H. CANNES,
M. L. STOWELL.