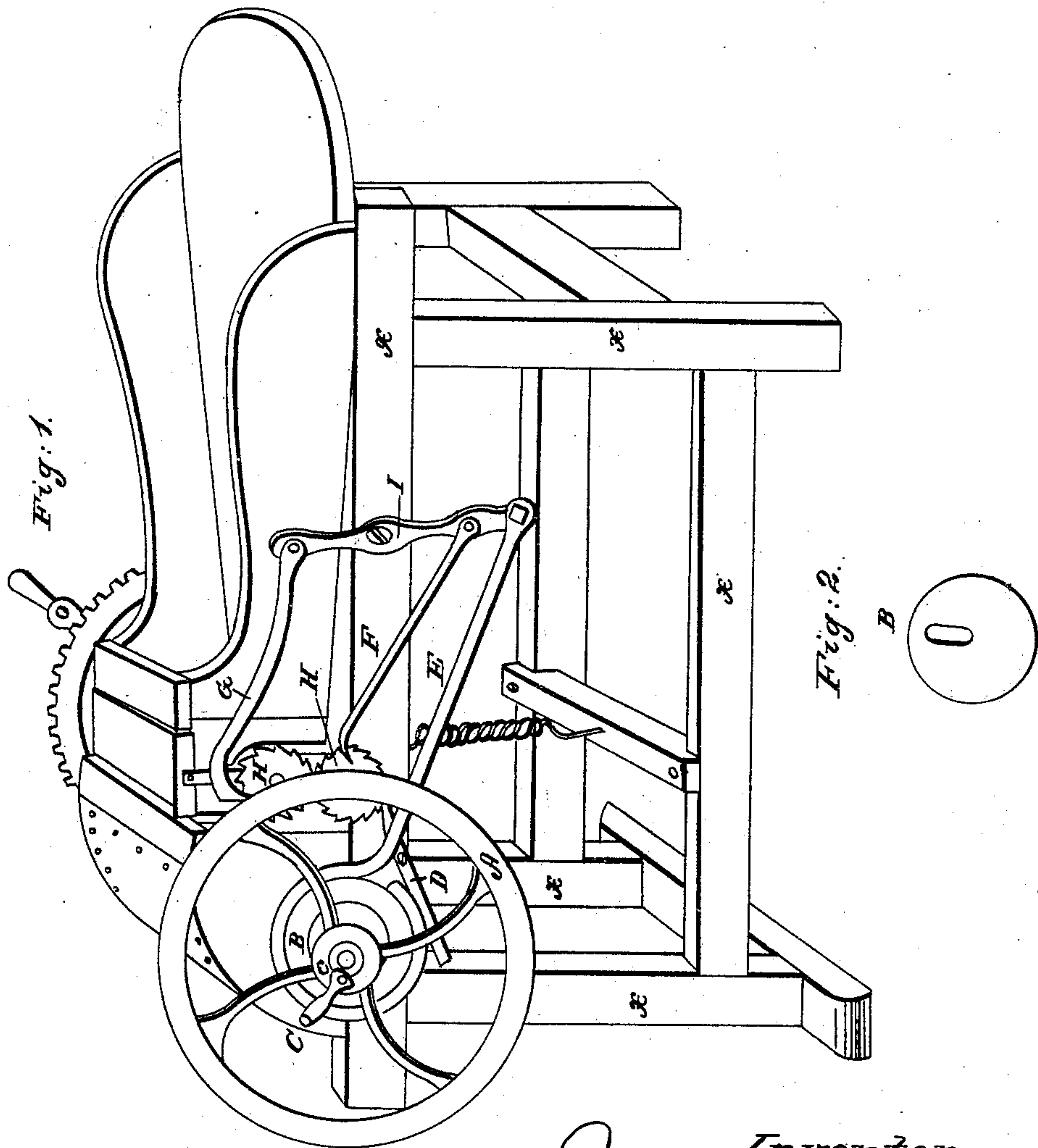


J. MARCHANT.

Straw Cutter.

No. 56,428.

Patented July 17, 1866.



Witnesses:

Wm. L. Luch.
C. P. Breckenridge.

Inventor:

Joseph Marchant
by W. T. Dennis
his attorney.

UNITED STATES PATENT OFFICE.

JOSEPH MARCHANT, OF CAMBRIDGE CITY, INDIANA.

IMPROVEMENT IN STRAW-CUTTERS.

Specification forming part of Letters Patent No. **56,428**, dated July 17, 1866.

To all whom it may concern:

Be it known that I, JOSEPH MARCHANT, of Cambridge City, Indiana, have invented certain new and useful Improvements in Straw-Cutters; and I hereby declare that the following is a full and clear description of the same, reference being had to the accompanying drawings, and to the letters of reference marked therein.

Figure 1 is a perspective view of the cutting-box. Fig. 2 is a plan of the adjustable cam.

In Fig. 1, A is the balance-wheel, hung upon a cross-shaft of the cutting-box, constructed in the ordinary manner. B is a circular plate-wheel attached to the same shaft as the balance-wheel A, having an elongated central opening, allowing it to slide between its center and circumference upon its shaft or journal. C is the handle of a thumb-screw, which passes through the slot of the cam or plate-wheel B, and is secured upon the inner face thereof by a cross-head, serving to hold the plate-wheel B in any desired position. The plate-wheel B has a groove in its circumferential surface, in which is fitted, working loosely, one end of the rod E, the opposite end of which is attached to the lower end of the rocker-shaft I, which is secured by a bolt to the framing X.

The pawls F and G operate the ratchet-wheels H H, respectively, which are attached to the feed-rollers of the cutting-box.

D is a gravitating pawl, serving to hold the ratchet of the lower feed-roller in position.

By sliding the plate-wheel farther from the center it lengthens the vibrations of the rocker-arm and gives a greater motion to the feed-rollers, and a consequently longer cut of the straw, and thus constitutes an adjustable cam.

By this arrangement I produce a simple, strong, and durable feeding device, which is easily adjustable, and working almost without friction.

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

The arrangement and combination of the balance-wheel A, adjustable plate-wheel B, thumb-screw C, rod E, pawls F and G, ratchet-wheels H H, and rocker arm or shaft I, constructed and operating substantially as and for the purposes set forth.

JOSEPH MARCHANT.

Witnesses:

WM. T. DENNIS,

W. H. WAINWRIGHT.