Bernhard Suverkrup's Improvement in

CUTTING BOXES.

72936

Fig 1.

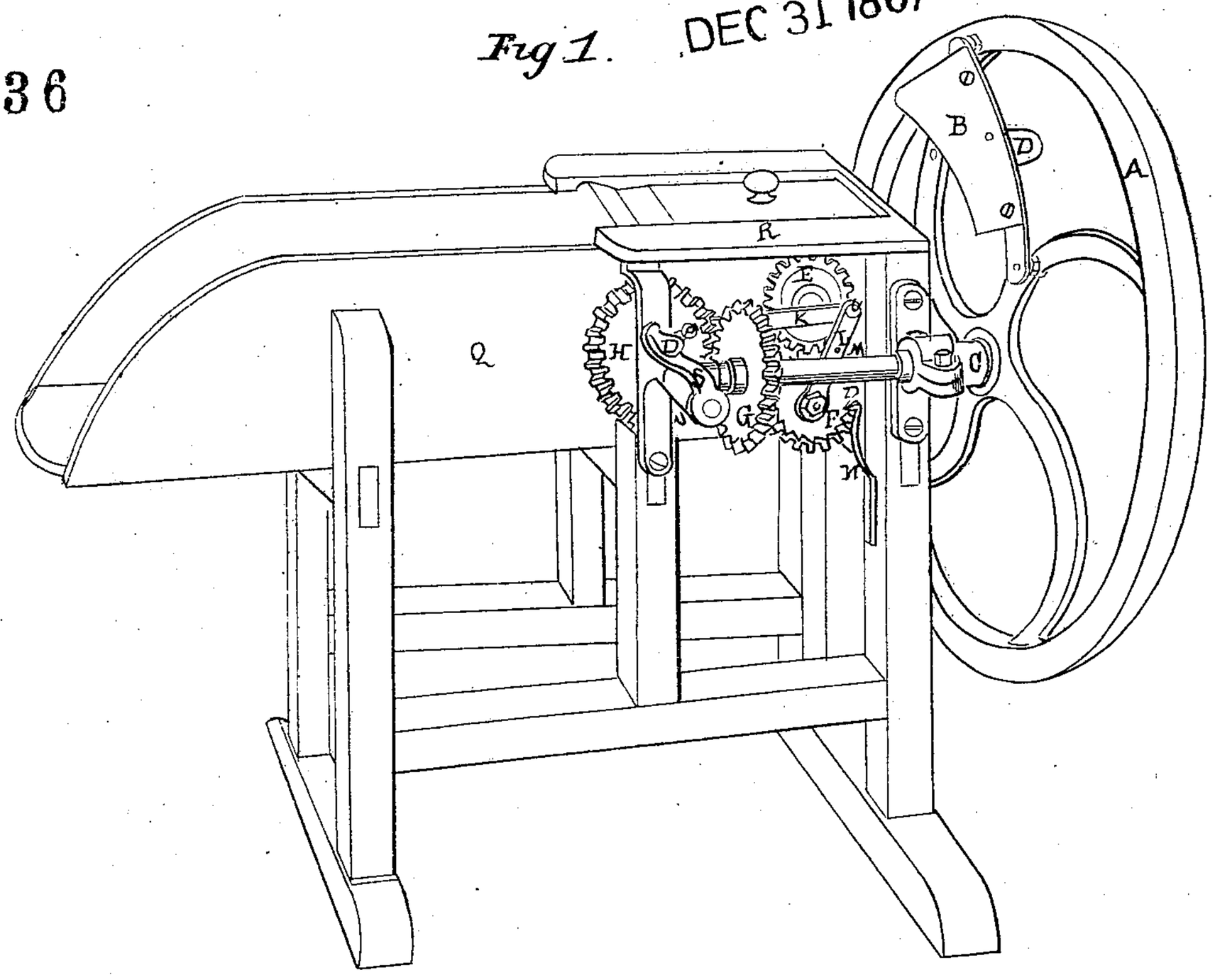
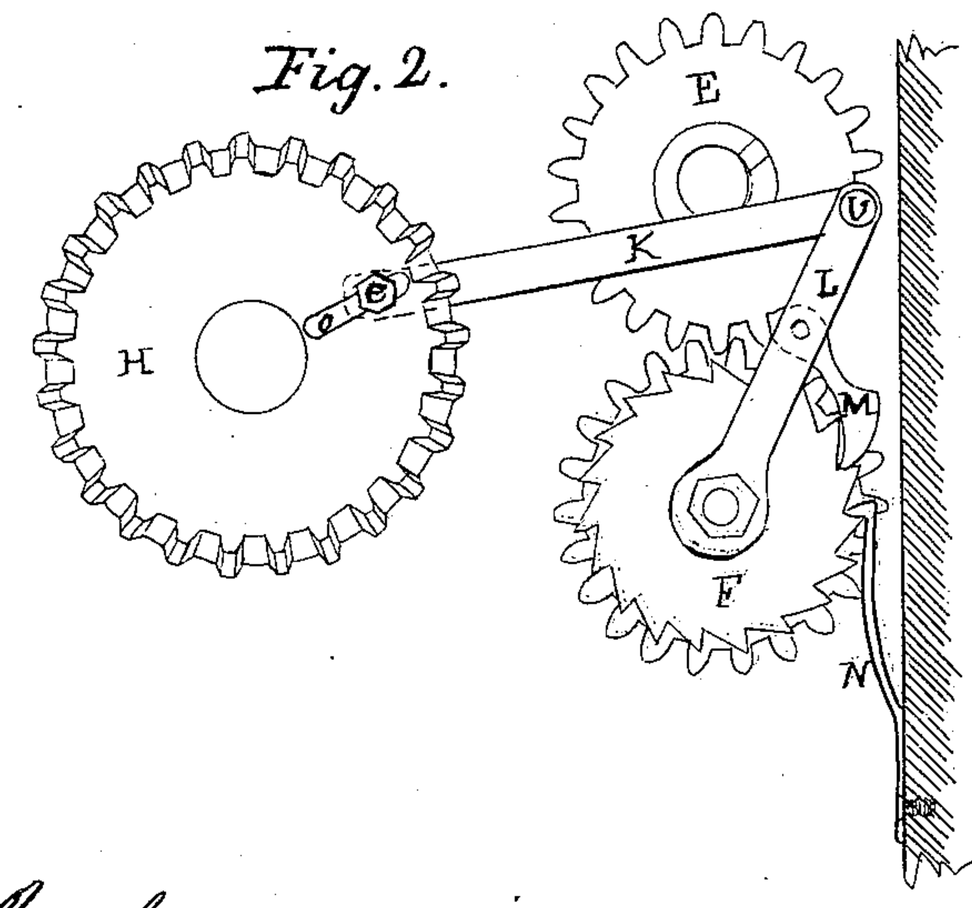


Fig. 2.



Witnesses
Alex Roske
Henry Wm Schmidt

Inventor,
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UNITED STATES PATENT OFFICE.

BERNHARD SUVERKRUP, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN STRAW-CUTTER.

Specification forming part of Letters Patent No. **72,936,** dated December 31, 1867.

To all whom it may concern:

Be it known that I, BERNHARD SUVERKRUP, of the city of Louisville, county of Jefferson and State of Kentucky, have invented a new and useful Improvement in Cutting-Boxes, entitled "Bernhard Suverkrup's Improvement in Cutting-Boxes;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the machine, as will be seen by reference to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of the machine. Fig. 2 is a front view of the wheels of the machine, showing the arrangement of the feeding-fixtures.

Q is the box of the machine, made of wood, and in which the straw is placed in order to be cut; H, arm. G are the two miter-wheels which drive the machine by turning the crank S, by which motion is given to the fly-wheel A, on which the knife B is attached, and as the fly-wheel revolves the knife passes around against the face of the cutting-box, which is faced with iron or steel, and cuts the straw or other material the same as if cut with shears, and is fed by the straw being forced out at the front of the machine by two rollers inside of the box Q, which rollers are driven by the wheels E and F, Fig. 2 showing the feed arrangement.

O is the slot in the bevel-wheel H, in which is fitted a small wrist that is made adjustable, in order to lengthen or shorten the length of the material to be cut. This wrist gives motion to the levers K and L, to which it is attached, said levers having a joint in them at U, and when vibrated by the wrist P the ratchet M is drawn back by the levers L, and when pressed forward again it turns the wheel F forward, which is attached to the rollers inside the machine, and in order to keep it from turning back again is caught by the spring-catch N, and is held fast until the fly-wheel A revolves again, and as the ratchet turns the wheels E and F the rollers inside the box are turned and feed the machine.

The above is a full and clear description of the machine, and is operated by placing straw or other material in the box Q and pressing it up to the rollers so that they may receive it, and then turning the shaft by the crank S, which gives motion to the fly-wheel and knife, which, when passing around, cuts the straw or other material. Said knife is so arranged as to be easily adjusted by two bolts which hold it to the wheel, having two nuts near each end, which can be adjusted at pleasure, and also a set-screw against the outside of the knife, at the outer end, to prevent it from springing off when hard pressed by the feed or otherwise.

I do not claim anything in the original construction of the above machine; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the crank S, fly-wheel A, with adjustable knife B, bevel-wheels E, F, G, and H, slot O, wrist P, levers K and L, ratchet M, and spring-catch N, when constructed, arranged, and operating in the manner and for the purposes set forth.

BERNHARD SUVERKRUP.

Witnesses:

NICH. ROSHE,

HENRY W. BIEDT.