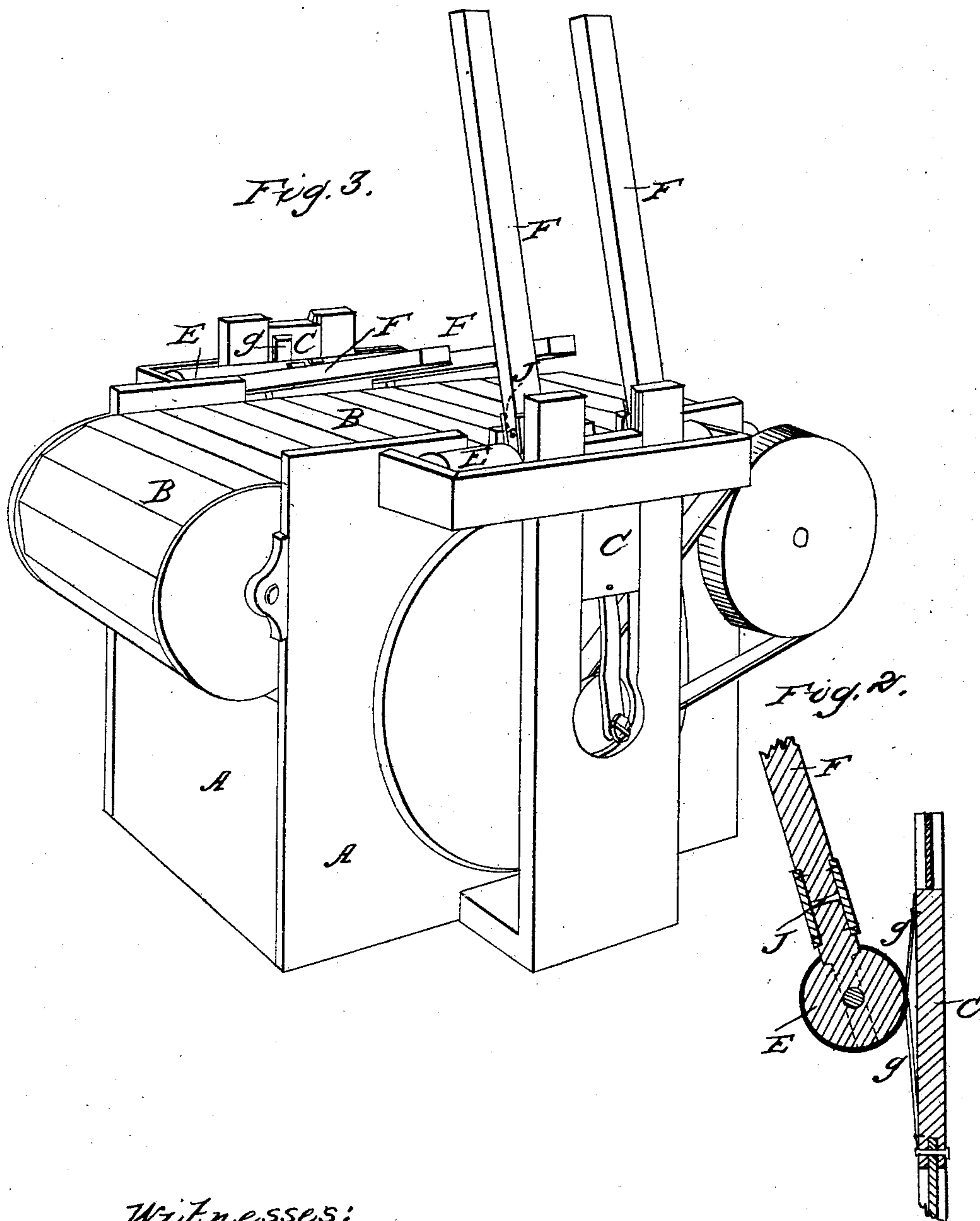


J. H. SIDDALL.
Thrashing Machine.

No. 24,767.

Patented July 12, 1859.



Witnesses:
John Edw. Siddall
Stephen Ulick.

Inventor:
Joseph H. Siddall.

UNITED STATES PATENT OFFICE.

JOSEPH H. SIDDALL, OF PHILADELPHIA, PENNSYLVANIA.

THRESHING-MACHINE.

Specification of Letters Patent No. 24,767, dated July 12, 1859.

To all whom it may concern:

Be it known that I, JOSEPH H. SIDDALL, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Machine for Threshing Grain with Flails or Beaters, and do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the machine and Fig. 2 is a sectional view of the slide, roller, straps and flexible joint in the flail or beater.

The machine consists of a frame A, A, between the sides of which moves an endless platform B, B, upon which is placed the grain intended to be threshed; on each side of the frame is a slide C, C, moving in an upright frame which is secured to the sides of the frame A, A, to which slide a vertical motion is given by means of the crank D. Between the slide and the frame of the machine on each side is placed a roller E, to which a reciprocal motion is given by means of two straps g, g, one passing from the upper end, and the other from the lower end of the slide, around the roller, the ends of each strap being secured to the slide and

roller respectively; along the roller is arranged a series of flails or beaters F, F, F, each having a flexible joint J; the straps above mentioned being so adjusted, and the length of the crank D, being so proportioned to the diameter of the roller that as the slide is lowered and elevated the flails will rise perpendicularly and fall horizontally on the grain lying on the surface of the platform. When the crank revolves, the slides will move rapidly up and down, and the straps acting alternately on the lower and upper part of the circumference of the roller, will give it a reciprocal motion, and the flails descending with a quick elastic blow, and instantly rising to a vertical position, will allow the straw to pass under them without obstruction.

I do not claim moving the flails by arms on a shaft, but what I claim and desire to secure by Letters Patent is,

The combination of flails F, roller E, slides C, and straps g, when said flails are constructed with the flexible joints J; the arrangement and operation being substantially as, and for the purpose set forth.

JOSEPH H. SIDDALL.

Witnesses:

STEPHEN USTICK,
JOHN EDW'D. SIDDALL.