

N. S. KETCHUM.

Improvement in Corn-Shellers.

No. 127,610.

Patented June 4, 1872.

Fig. 1.

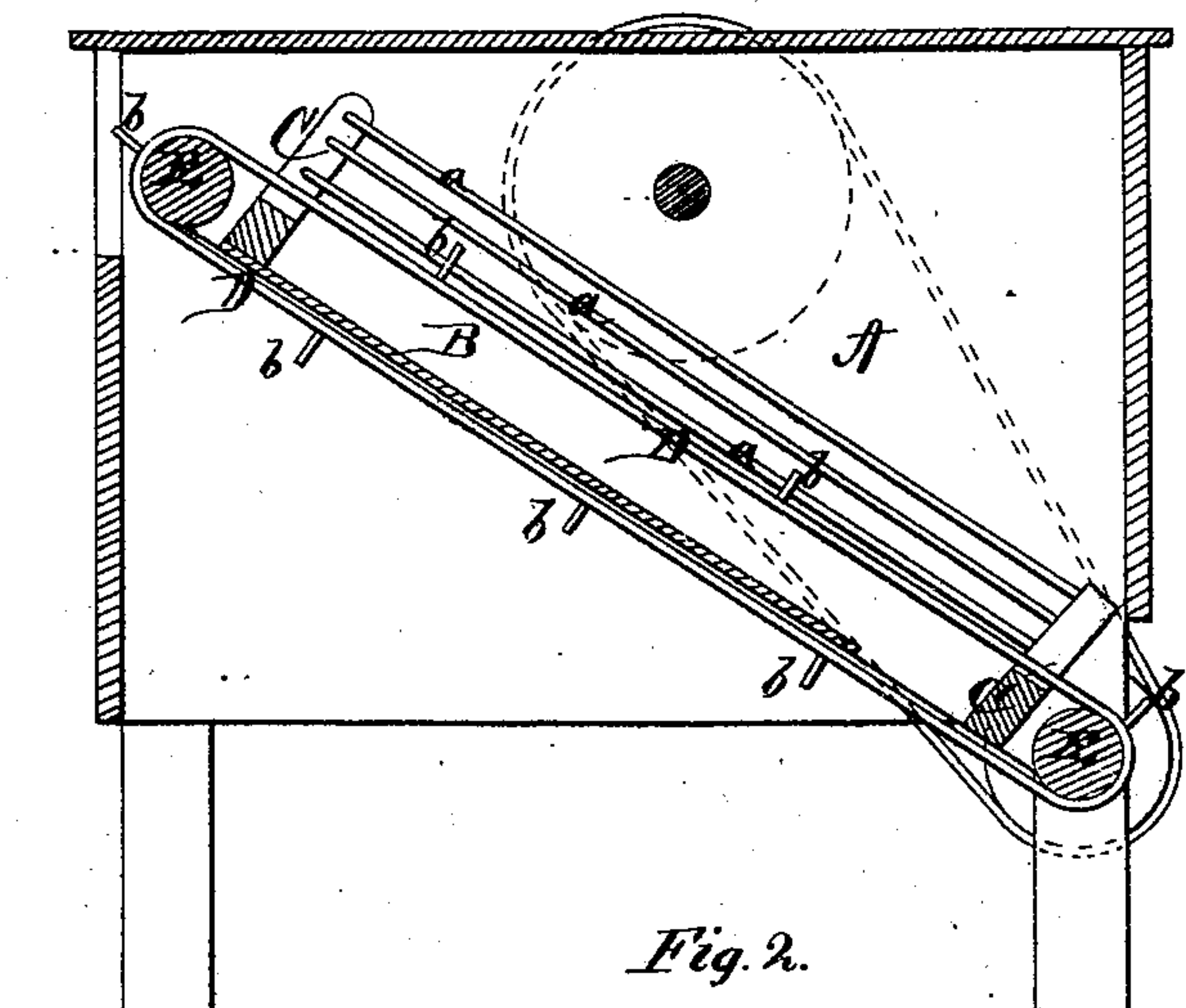
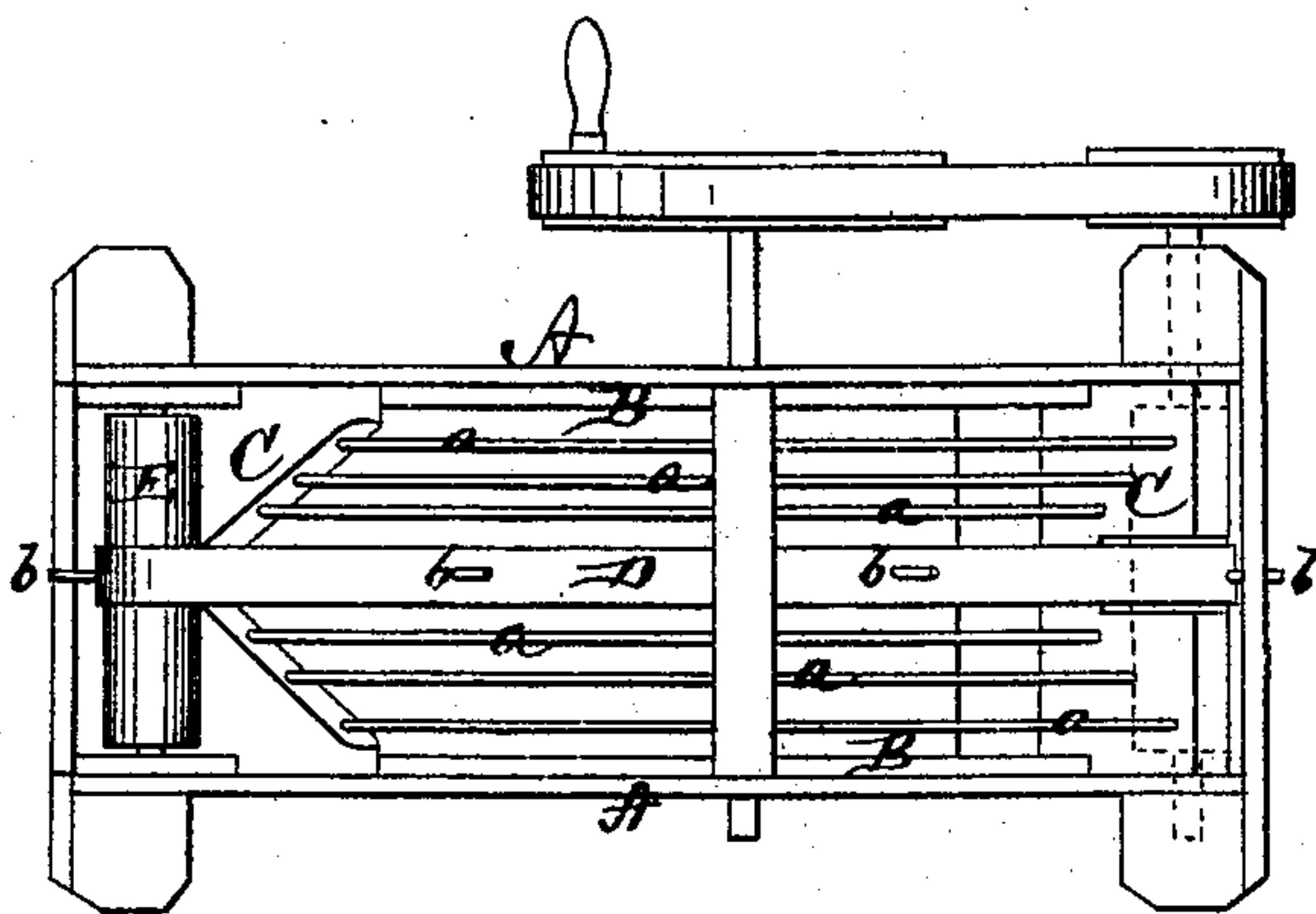


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

NATHANIEL S. KETCHUM, OF MARSHALLTOWN, IOWA.

## IMPROVEMENT IN CORN-SHELLERS.

Specification forming part of Letters Patent No. 127,610, dated June 4, 1872.

*To all whom it may concern:*

Be it known that I, NATHANIEL S. KETCHUM, of Marshalltown, in the county of Marshall and in the State of Iowa, have invented certain new and useful Improvements in Corn-and-Cob Separator; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a corn-and-cob separator for corn-shellers, as will be 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 describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 a plan view of my separator.

A represents a box or frame of any suitable dimensions, provided on the interior on each side with a bar, B, set at an incline of about forty-five degrees. These bars are connected near each end by a cross-bar, C, and in said cross-bars are set-wires or rods *a a*, running parallel with the bars B B, and placed a suitable distance apart, so as to let the corn fall through, and at the same time arrest or prevent the cob from going down with the corn. The wires or rods *a a* are set in a concave or

trough-shape, to compel the cob to fall or roll to the center or bottom, where it is carried up and out at the rear end of the sheller by means of a small endless belt, D, running over rollers E E, placed one at the upper and the other at the lower ends of the bars B B. The belt D is provided with spikes or nails *b b*, projecting through at suitable intervals, carrying the cob up and out of the machine.

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

1. In a corn-shelling-machine, I claim the wires or rods *a a*, when arranged to form a slatted concave or trough, and placed in an inclined position, substantially as and for the purposes herein set forth.

2. In combination with the wires or rods *a a*, arranged, as described, the endless belt D with spikes or nails *b b*, substantially as and for the purposes herein set forth.

3. The combination of the frame A, bars B B, cross-bars C C, wires or rods *a a*, endless belt D with spikes or nails *b b*, and the rollers E E, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of March, 1872.

NATHANIEL S. KETCHUM.

Witnesses:

E. C. RICE,

C. B. RHODES.