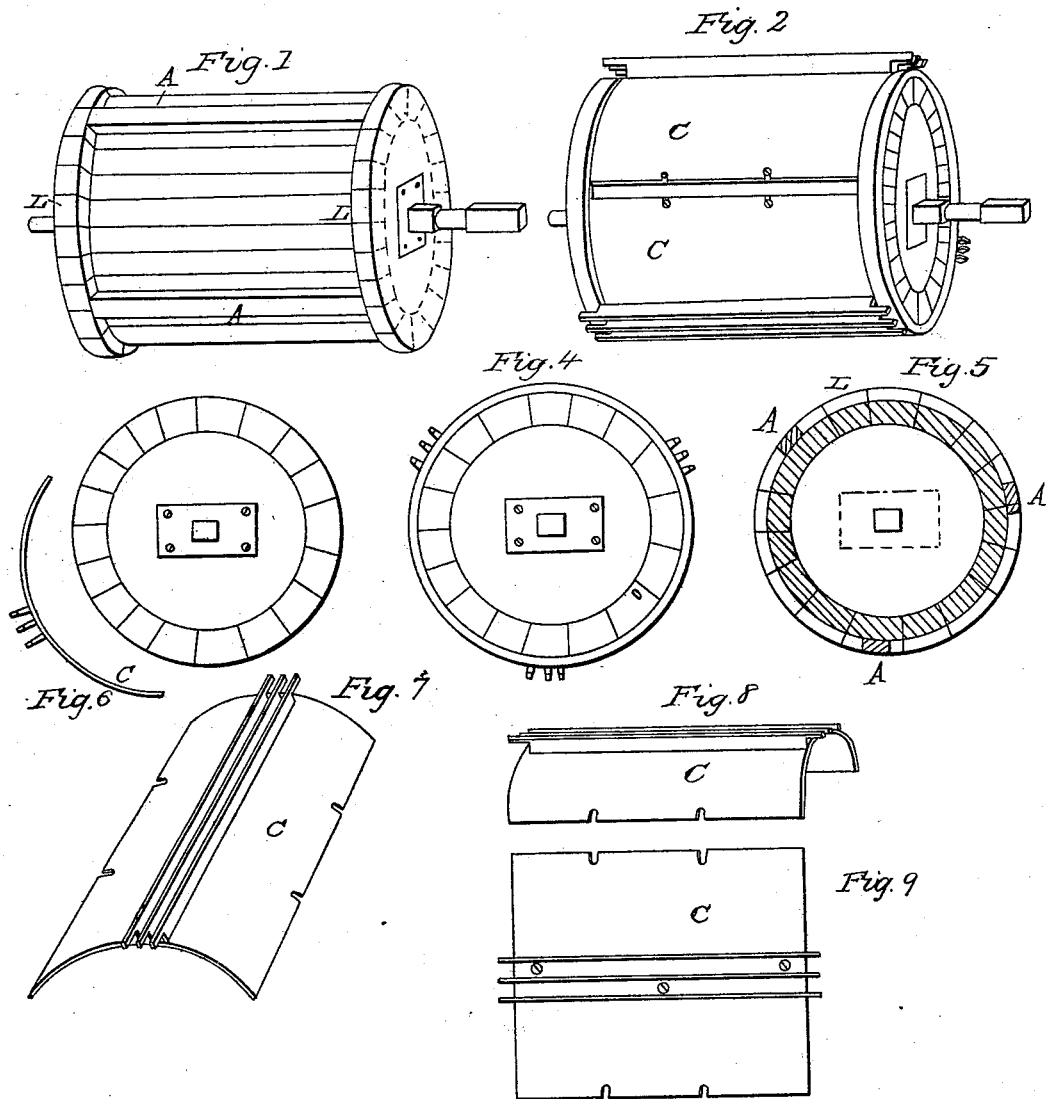


E. WARREN.
Thrashing Machine Cylinder.

No. 5,588.

Patented May 23, 1848.



UNITED STATES PATENT OFFICE.

EDMUND WARREN, OF NEW YORK, N. Y.

THRESHING-MACHINE.

Specification of Letters Patent No. 5,588, dated May 23, 1848.

To all whom it may concern:

Be it known that I, EDMUND WARREN, of the city, county, and State of New York, have invented a new and useful Improvement in Threshing-Machine Cylinders; and I hereby declare that the following is a full and exact description.

To enable others to make and use my invention I proceed to describe its construction and operation reference being had to the drawings hereunto annexed and making part of this specification.

Figure 1 is a perspective view of a cylinder, formed by putting two heads upon a shaft and covering with thick plank staves nailed on—the whole being then turned in a lathe so as to leave a small ridge L at each end five eighths of an inch higher than the rest of the cylinder. Three bars, A, are then placed on the cylinder longitudinally within and flush with the ridges, L. This cylinder is then prepared to receive the covering. Fig. 2, a cylinder (in perspective) complete, with hoops on the ends. These hoops set tight upon the wooden cylinder as seen in Fig. 1 and overlap the springs or metallic plates, c, about three eighths of an inch to confine them on. Fig. 3, end view of the wooden cylinder Fig. 1. Fig. 4, end view of the cylinder complete as in Fig. 2. Fig. 5, cross section of the wooden cylinder—showing how much is turned off from the middle part of the cylinder to leave the ridges, L. Fig. 6, end of one of the pieces, C, which form the covering of the cylinder. Fig. 7, perspective of the same. Fig. 8, another view of the same. Fig. 9, plan of the same.

The wooden cylinder Fig. 1 being pre-

pared, three pieces of plate steel, c, are laid upon it, the sides of the pieces being upon the bars, A, to which they are secured by screws two or more on each side in slots cut for the purpose. The pieces, C, are short enough to set within the ridges, L, so that they set upon the bars only and admit of being pressed or sprung toward the center. These pieces, C, have set longitudinally upon them the beaters, which are simple strips of metal. These beaters extend over the ends of the pieces, C, so that the beaters will be as long as the cylinder. A hoop of iron one inch or more in width is put on each end of the wooden cylinder Fig. 1, firm and overlaps the piece, C, three eighths of an inch—thus each end of the plate is secured by the hoop from flying off but it has free play to spring in toward the center of the cylinder—the sides only being held out in place by resting on the bars, A.

The pieces, C, have screws through them (see diagram Fig. 9) to aid in steadying them. The holes through them are large so that the pieces will spring freely up and down.

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

The application to a threshing cylinder of the metallic spring plates, c, in the manner and for the purpose above described.

In witness whereof I have hereunto set my hand at the city of New York this ninth day of May 1848.

EDMUND WARREN.

Witnesses:

OWEN G. WARREN,
I. DWIGHT STICKNEY.