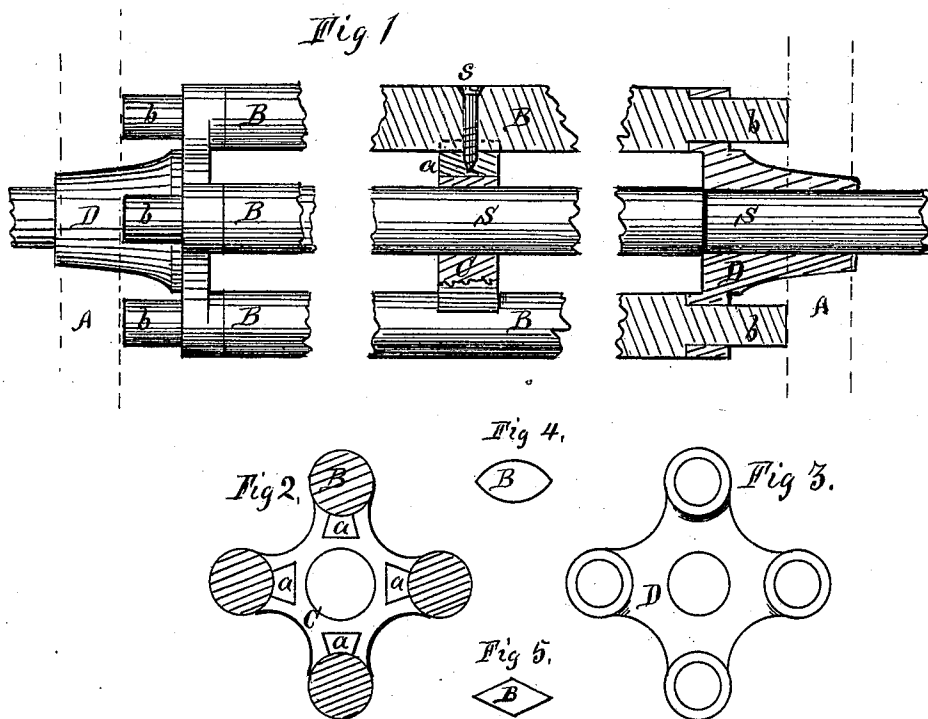


C. S. HALL.

BEATER-REELS FOR THRASHING-MACHINES.

No. 171,725.

Patented Jan. 4, 1876.



Witnesses.

Philander Macy
Dexter Reynolds.

Inventor

Chas. S. Hall
By H. M. Loughborough
Atty.

UNITED STATES PATENT OFFICE.

CHARLES S. HALL, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN BEATER-REELS FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. **171,725**, dated January 4, 1876; application filed July 31, 1875.

To all whom it may concern:

Be it known that I, CHARLES S. HALL, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in "Pickers" for Grain-Thrashing Separators, of which the following is a specification:

The nature of this invention consists in a peculiar construction of beater-reels for grain-thrashing separators.

Figure 1 is a sectional elevation of a picker constructed on my improved plan. Fig. 2 is a transverse sectional view of the beaters B, and giving a plan view of the spider or central support C and its dovetail screw-blocks *a*. Fig. 3 is an inside end view of one head, D. Figs. 4 and 5 show modifications in the shape of the beaters.

The objects of my invention are to provide such a construction of the beaters of grain-thrashing separators as will afford the greatest amount of agitation to the grain and straw, to assist the separation thereof, and which, at the same time, will not throw the grain over, so as to be carried out with the straw and be wasted.

I provide the shaft S with two heads, D, preferably of cast-iron, and made as shown, so as to receive the reduced ends *b* of the beaters B. I prefer to have these project through, so as to run very close to the side linings of the machine, which are indicated

by the dotted lines A, Fig. 1, to prevent straws from winding around the shaft. These beaters may be made cylindrical or oval or diamond shaped, if preferred, the object being to have them present as little surface as possible in the direction of their rotation, so as to prevent throwing the grain. One or more central supports C are provided on the shaft S. The wings of these supports are each provided with a dovetail groove, into which blocks of wood, *a*, are fitted, and an ordinary wood-screw, *s*, is put through the beaters and screwed into these blocks, thus preventing breakage, as well as all centrifugal vibration.

A series of the pickers might be arranged within the separator, if desired, so as to convey the straw from one to another without winding, and thus effect nearly or quite the whole separation of the grain from the straw by means of the thorough agitation which they produce upon the material.

What I claim as my invention is—

As an improvement in skeleton pickers or beaters for grain-thrashing separators, the central support C, provided with nut-blocks *a* to receive the clamping-screws *s*, substantially in the manner and for the purposes set forth.

CHAS. S. HALL.

Witnesses:

WM. S. LOUGHBOROUGH,
W. MARTIN JONES.