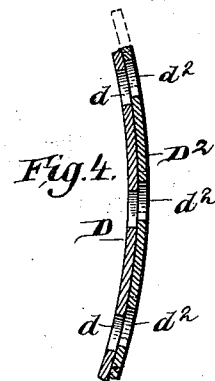
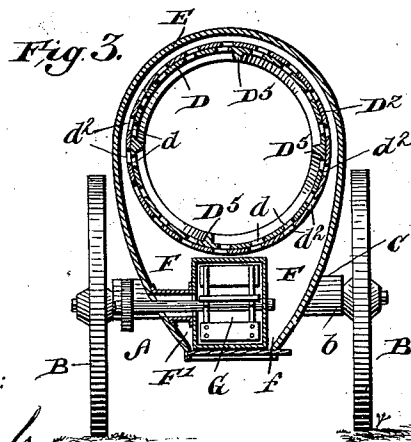
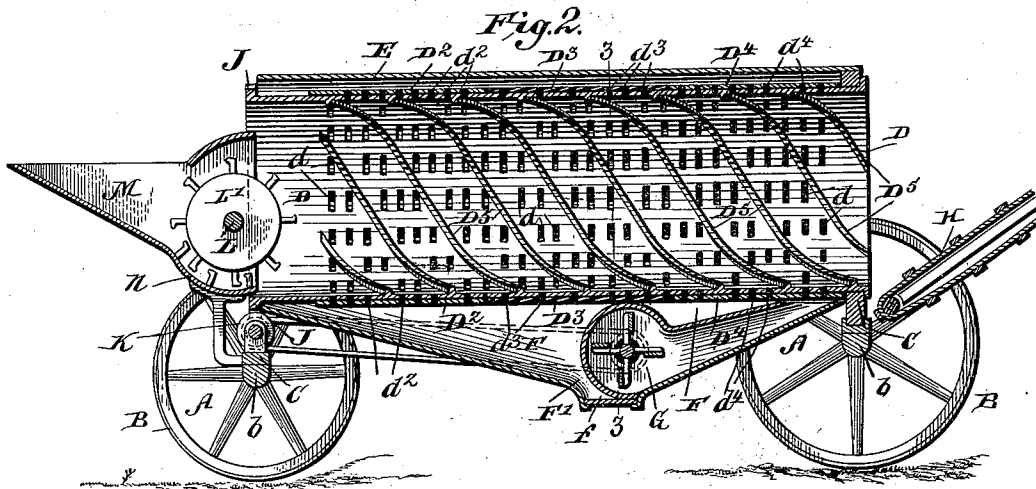
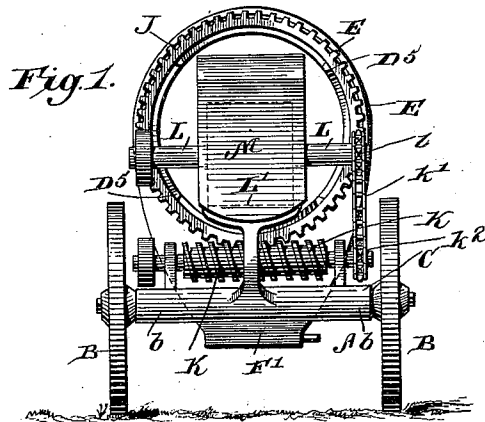


(No Model.)

J. H. KOCH.
ROTARY THRASHER.

No. 560,586.

Patented May 19, 1896.



WITNESSES:

H. G. Dieterich
J. Edw. Luckett

INVENTOR
J. H. Koch,

BY

O'Meara & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

JERRY HENRY KOCH, OF LAMARTINE, PENNSYLVANIA.

ROTARY THRESHER.

SPECIFICATION forming part of Letters Patent No. 560,586, dated May 19, 1896.

Application filed November 13, 1895. Serial No. 568,843. (No model.)

To all whom it may concern:

Be it known that I, JERRY HENRY KOCH, residing at Lamartine, in the county of Clarion and State of Pennsylvania, have invented a new and Improved Rotary Thresher, of which the following is a specification.

My invention relates to improvements in that class of threshing-machines having a rotary cylinder and a blast-chamber for forcing the separated straw to the elevator or carrier devices; and it primarily has for its object to provide a machine of this kind of a simple and inexpensive construction which can be easily manipulated and which will effectively serve for its intended purposes.

With this and other objects in view, which hereinafter will be referred to, the invention consists in the peculiar arrangement and novel combination of parts, first described in detail, and then specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is an end view of my improved rotary thresher. Fig. 2 is a longitudinal section thereof. Fig. 3 is a transverse vertical section of the same, taken on the line 3 3 of Fig. 2; and Fig. 4 is a partial horizontal section taken on the line 4 4 of Fig. 2.

In its practical construction my invention embodies a suitable frame A, mounted on the drive-wheels B B, upon the axles *b b* of which are held seat-blocks C C, having concave bearing portions in which the rotary or internal cylinder D has its ends seated, as most clearly shown in Fig. 2.

E indicates an outer casing in which the rotary cylinder D is held, the diameters of such inner and outer bodies being relatively such that an air or grain collecting space F is provided, the bottom of which is dished, as shown at F', and provided in practice with an outlet *f*, having a suitable gate for the escape of the grain. At a point somewhat near the rear end of the machine is disposed a blast-fan G, the air tube or pipe of which is held to discharge upwardly in a diagonal direction against the under face of the cylinder, so as to force the straw out at the rear end onto an elevator or carrier H, of any suitable construction, which, if desired, may form a part of a stacker.

The cylinder D is in the nature of a continuous body, having a series of slits or open-

ings *d* and having a number of exterior cuffs or bands D², D³, and D⁴, having also openings *d*², *d*³, *d*⁴, respectively. These bands are made movable on the cylinder-body proper, so that the openings in such body can be regulated to suit the different grades of grain to be threshed and also to form the said cylinder practically into sections, having openings of successively-increasing grades, as clearly shown in Fig. 2, it being manifestly clear that such an arrangement of parts will permit of the ready adjustment of the cylinder for different grades of threshing. The interior wall of the cylinder D has a series of spirally-arranged ribs D⁵, inclined rearward to carry the straw rearward as the said cylinder is rotated. At the front end the cylinder has an annular gear J, which is held to engage a worm-shaft K, journaled transversely under the front end of the machine and provided with a sprocket-wheel *k*², which is geared by the chain *k*¹, with a sprocket-wheel *l* on the end of the toothed cylinder-shaft L, driven in the ordinary manner.

The cylinder L' is mounted at the base of the feed-platform M, and held to operate over the concave *n*, such cylinder and concave being of the ordinary construction.

From the foregoing description, taken in connection with the accompanying drawings, it is thought the complete operation of my invention will be readily understood by those skilled in the art to which it appertains.

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

The combination of the rotary cylinder having perforations of uniform size its entire length, a series of cuff or sleeve members having perforations and adapted to be independently moved on the perforated cylinder whereby to regulate the perforations therein into separate series of different sizes, a surrounding casing having a grain-receiving trough, and a fan for driving the stalks and straw out at the rear and means for rotating the perforated cylinder all substantially as shown and for the purposes described.

JERRY HENRY KOCH.

Witnesses:

JOHN SCHMUCK,
A. E. MIDDLETON.