

(No Model.)

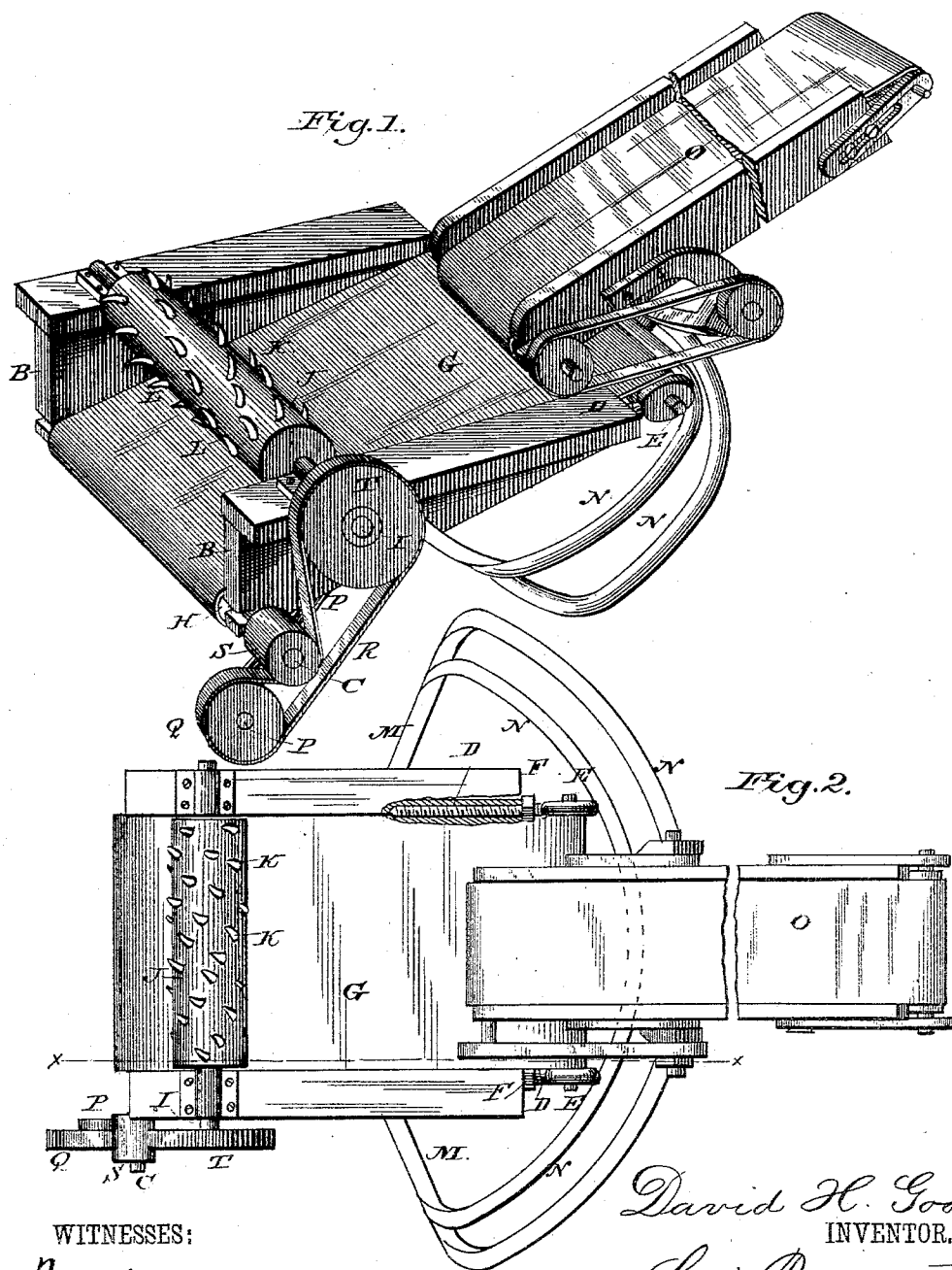
2 Sheets—Sheet 1.

D. H. GOOD.

FEEDER FOR THRASHING MACHINES.

No. 315,764.

Patented Apr. 14, 1885.



WITNESSES:

Med. L. Dieterich,
Wm. Bagger.

David H. Good,
INVENTOR.

by Louis Bagger & Co.
ATTORNEYS.

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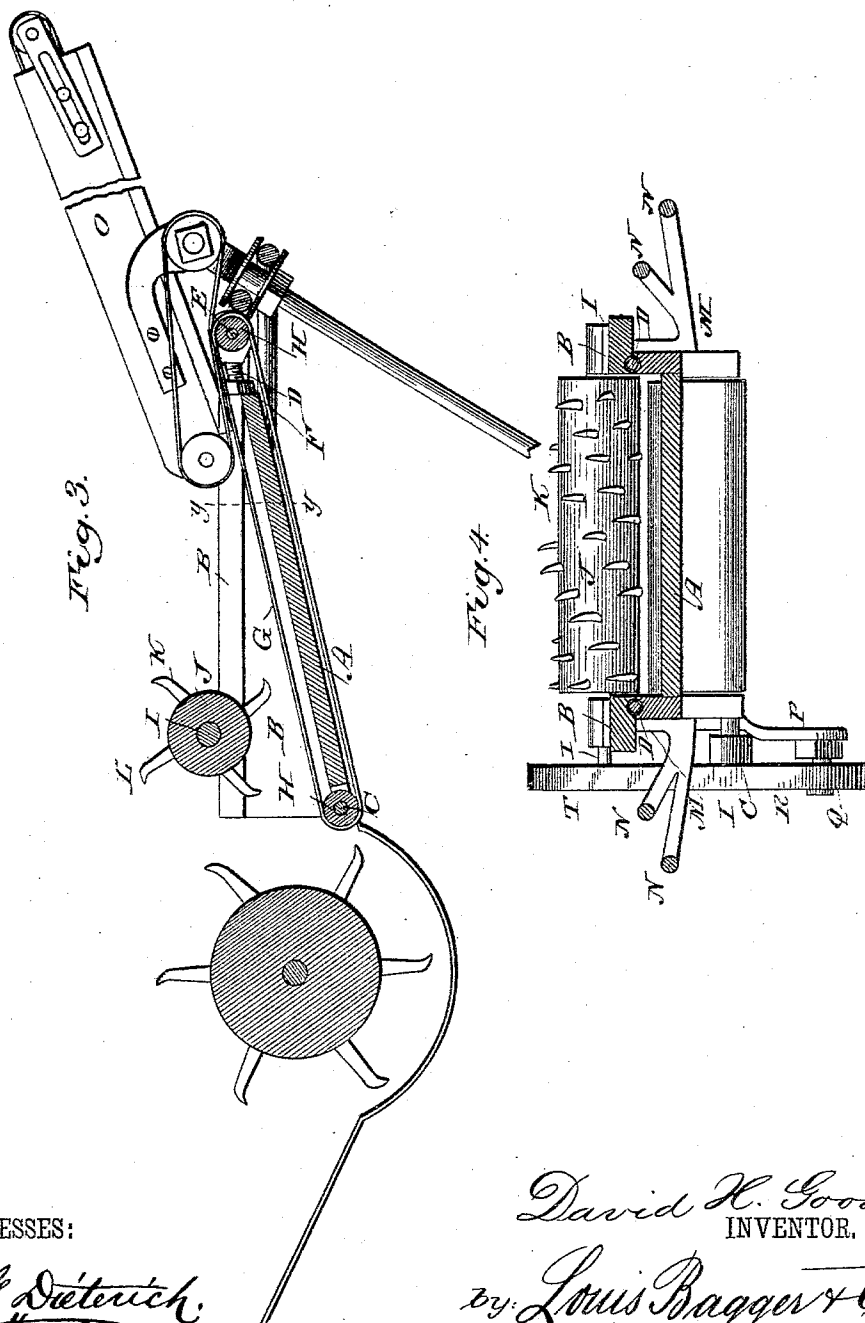
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UNITED STATES PATENT OFFICE.

DAVID H. GOOD, OF CANADA, KANSAS.

FEEDER FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 315,764, dated April 14, 1885.

Application filed November 25, 1884. (No model.)

To all whom it may concern:

Be it known that I, DAVID H. GOOD, a citizen of the United States, and a resident of Canada, in the county of Marion and State of Kansas, have invented certain new and useful Improvements in Feeders for Thrashing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved feeding attachment for thrashing-machines, showing the same in position for operation. Fig. 2 is a top or plan view of the same. Fig. 3 is a longitudinal vertical sectional view taken on the line *x x* in Fig. 2, and Fig. 4 is a transverse sectional view taken on the line *y y* in Fig. 3 of the drawings.

The same letters refer to the same parts in all the figures.

This invention relates to feeders or feed mechanism for thrashing-machines; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view the invention consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the base or bottom board of my improved attachment, which consists of an inclined board, the sides of which are provided with flanges B B, which are to be suitably attached to a thrashing-machine in such a position that the said bottom board shall occupy the position usually occupied by the feed-board of the machine. The lower or rear ends of the side flanges, B B, are provided with bearings for a transverse shaft, C, and bearings or recesses are provided between the bottom board, A, and flanges B B at the upper or outer ends of the latter for a pair of screw-threaded rods, D D, arranged to slide longitudinally in the said bearings, and the pro-

jecting forward ends of which are provided with boxes for another transverse shaft, E. The said screw-threaded rods D D are provided with nuts F F, bearing against the outer ends of the attachment, and which, when tightened, will serve to tighten or stretch an endless apron or carrier, G, which is stretched upon cylindrical rollers H H upon the shafts C and E.

The sides or flanges of the device are provided near their rear ends with suitable boxes or bearings for a transverse shaft, I, provided with a cylinder, J, the periphery of which is provided with several sets or series of teeth or fingers, K K, extending radially and curved in a rearward direction at their outer ends, as shown at L L, while the said rows or sets are arranged diagonally across the face of the cylinder. This constitutes what may be termed the "feed-cylinder" of the device, which, in conjunction with the traveling apron or carrier G, serves to convey the grain deposited upon the latter to the cylinder of the thrashing-machine to which the device is attached. The said cylinder is geared, as shown, to revolve in the direction opposite to that of the travel of the endless apron G—that is to say, so that the adjacent portions of the roller and apron move in the same direction, but with the roller traveling at a lower velocity, so that it acts to retard and even the grain upon the apron, while at the same time aiding to conduct it forward, which is not the case with a vibrating or stationary toothed bar or a toothed roller with its lower face moving backwards from the cylinder. These simply retard the grain and spread it without aiding the feed.

To the sides or side flanges of the feeder are attached brackets M M, the rear ends of which extend outwardly, and are connected by segmental or semicircular arms N N, the outer one of which is placed upon a lower level than the inner one, and which together form a track upon which a conveying device is adjustable, which serves to convey the grain from a stack or a series of stacks to the feeding device proper. This conveying device, which in the drawings hereto annexed is designated by letter O, will be made the subject of a sep-

arate application for Letters Patent. One of the brackets M is extended downwardly and forwardly and provided with a spindle or journal, P, upon which is mounted an idle wheel or pulley, Q, from whence a belt or chain, R, passes, as shown in the drawings, over pulleys upon the shafts C and I, which are designated, respectively, by S and T, and which are so proportioned that the ends of the teeth upon the cylinder J of shaft I shall travel at a speed slightly less than that of the apron G, thereby avoiding the choking of the grain upon the latter.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The construction is simple and inexpensive. The device is capable of being applied to a thrashing-machine of any ordinary construction, and while it will feed in a perfect manner grain that has been tied into sheaves or bundles, it will be found equally efficient for the purpose of feeding what is known as "header stuff" without danger of misfeed or choking, likewise wet or tangled grain.

Having thus described my invention, I claim

and desire to secure by Letters Patent of the United States—

1. In a feeder for thrashing-machines, an inclined revolving endless apron, in combination with a transverse roller with rows of radially-projecting rearwardly-extending arms, and means for causing said roller to revolve in the opposite direction to and at a less rate of speed than the apron, substantially as shown, and for the purpose set forth.

2. The combination, with thrashing-machines, the frame, and means, substantially as described, for carrying the grain to the cylinder, of brackets secured to the sides of the frame and connected by segmental or semi-circular arms adapted to form a track for an adjustable conveyer, by means of which grain may be conveyed from a stack or series of stacks to the feeder, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

DAVID H. GOOD.

Witnesses:

WM. BAGGER,

CHAS. PHILIPBAR.