

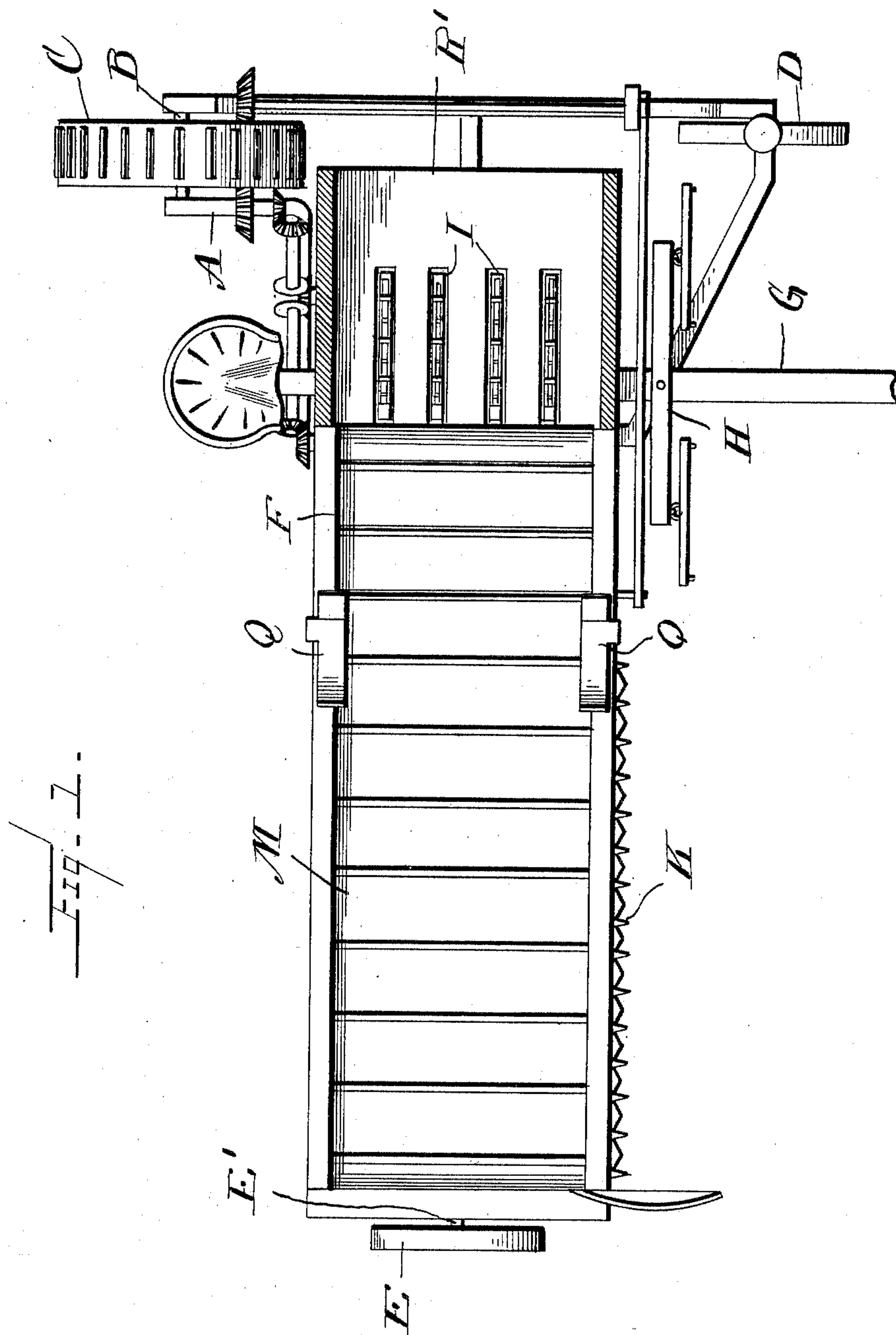
No. 760,290.

PATENTED MAY 17, 1904.

D. L. WOLF.
LOW DOWN BINDER.
APPLICATION FILED MAR. 11, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

Wm. F. Doyle
A. L. Hough

INVENTOR

Davis L. Wolf

BY

Franklin A. Hough
Attorney

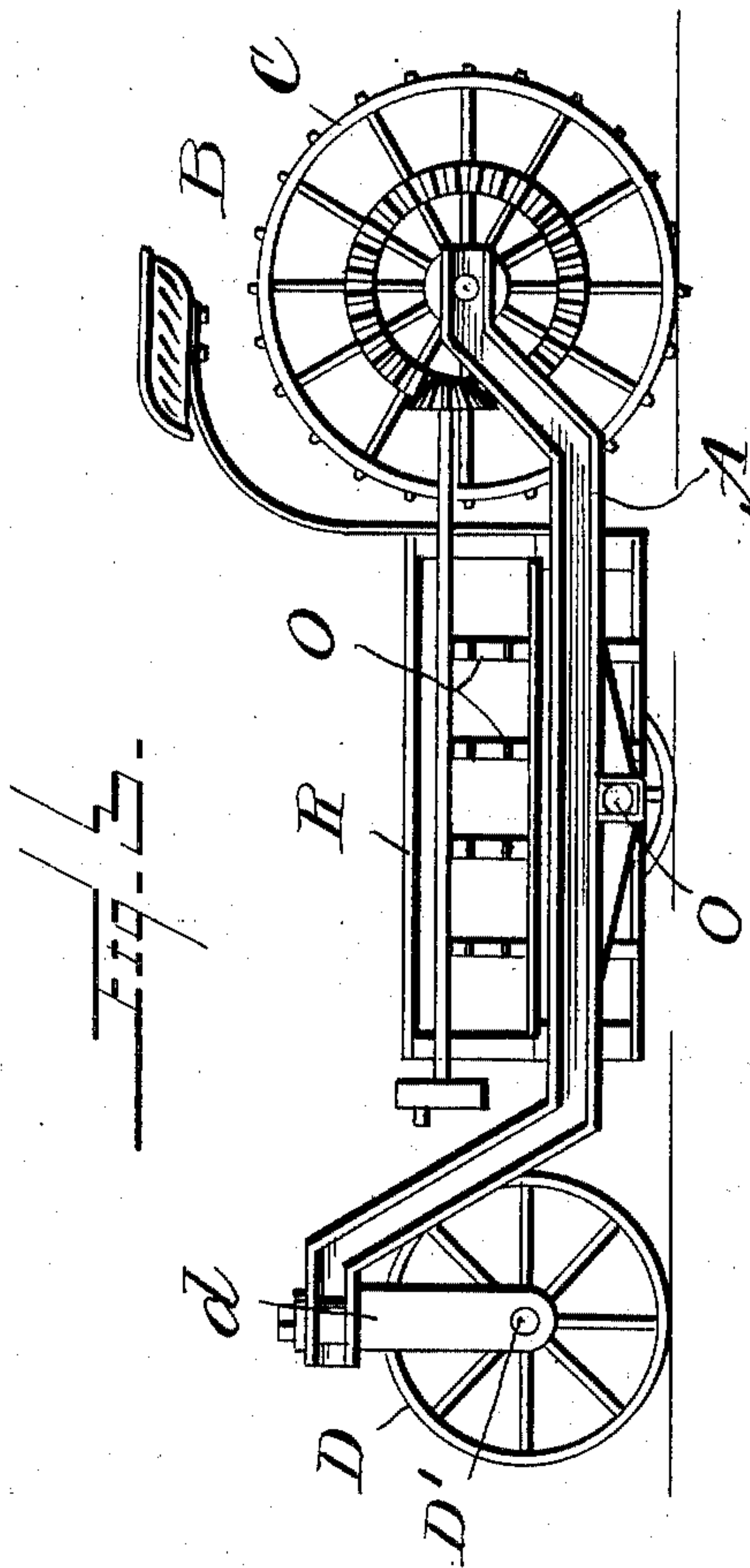
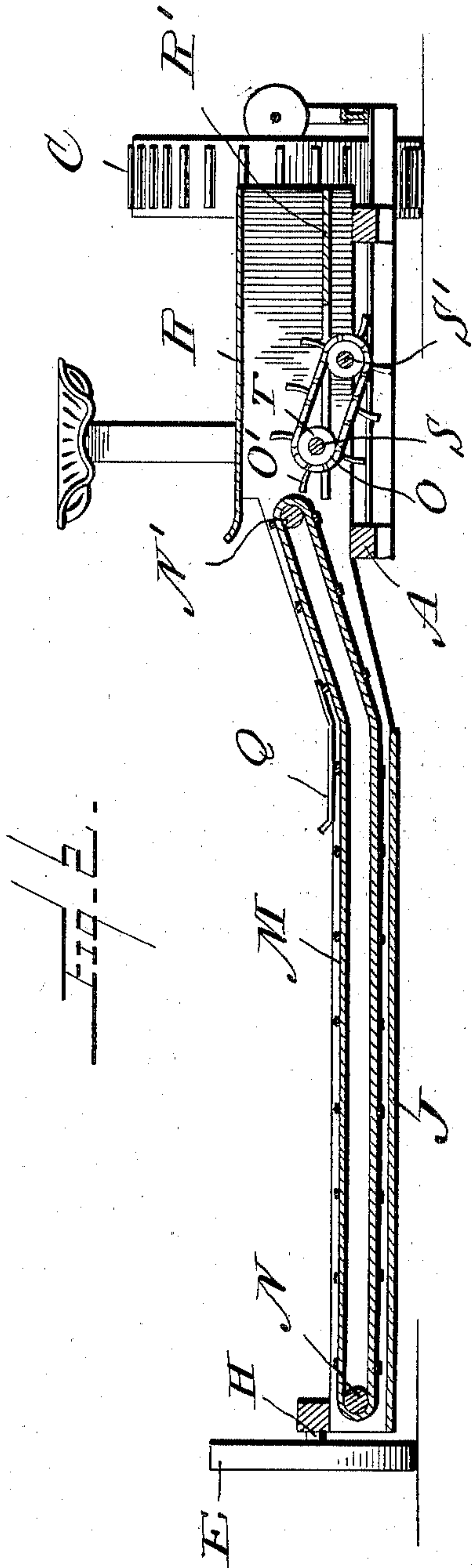
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UNITED STATES PATENT OFFICE.

DAVIS LEVI WOLF, OF ARCHER CITY, TEXAS.

LOW-DOWN BINDER.

SPECIFICATION forming part of Letters Patent No. 760,290, dated May 17, 1904.

Application filed March 11, 1904. Serial No. 197,661. (No model.)

To all whom it may concern:

Be it known that I, DAVIS LEVI WOLF, a citizen of the United States, residing at Archer City, in the county of Archer and State of Texas, have invented certain new and useful Improvements in Low-Down Binders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in low-down binders; and the object of the invention is to produce an apparatus whereby it will not be necessary to elevate grain, as in common binders, allowing the same to pass down an incline to the packers, which often causes trouble in thin or light grain by choking, it being a common trouble in ordinary binders for the grain to be jerked between the lower elevator and platform and the lower-elevator canvas, thereby causing a considerable amount of grain to be wasted. It is the object of my invention to obviate this difficulty; and to that end my purpose is to provide a continuous canvas which will convey the grain as it is cut up a slight incline and deposit the same upon the lower deck, through which fingers carried by an endless conveyer will carry the grain forward and deposit the same at such position upon the deck as to be engaged by packers, and thereby obviating any possibility of choking.

The invention consists, further, in various details of construction and in combinations and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a top plan view of my improved low-down binder apparatus, parts being shown in section and without the mechanism for binding the grain. Fig. 2 is a vertical sectional view longitudinally through the con-

veyer, parts being shown in elevation; and Fig 3 is a side elevation.

Reference now being had to the details of the drawings by letter, A designates the frame of my improved low-down binder, which may be made of iron or any other suitable material and of any suitable shape. Mounted in the ends of said frame is an axle B, upon which is mounted the main driving-wheel C, and D designates a swivel-wheel which is mounted upon a stub-shaft D', carried by the yoke *d*, swiveled in the forward upwardly-projecting portion of the frame, as shown clearly in Fig. 3 of the drawings.

The conveyer-frame F, which may be of any shape or size, is mounted upon said frame A, and a tongue G may be fastened to said frames A and F and provided with an evenner H. To one end of said conveyer-frame is mounted a stub-shaft E', upon which is journaled a grain-wheel E. Along one of the marginal edges of said conveyer-frame is mounted the cutting-knife K, mechanism for driving which and also other operative features of the binder for handling the grain after it has been conveyed to the deck where it is to be bound will not be illustrated in the drawings, as they form no part of the present invention.

N designates a roller which is mounted at one end of the frame of the conveyer, and N' designates a second roller, which is mounted over the frame A toward the other end of the conveyer-frame and at a slightly higher elevation than the roller N. The endless canvas conveyer (designated in the drawings by letter M) travels about said rollers, and a portion of the conveyer adjacent to the binding apparatus (not shown) is disposed at a slight inclination, as shown clearly in Fig. 2 of the drawings, and guide-plates Q are provided on either side of the longitudinal beams of the conveyer-frame, which guide the conveyer and cause a portion thereof to travel at an inclination.

J designates the floor of the conveyer-frame, and R represents the upper deck of the binder, and R' the lower deck, between which decks the grain is carried by the endless conveyer.

S and S' designate shafts which are journaled in the conveyer-frame beyond the end of the conveyer and at different elevations and spaced apart. Sprocket-wheels T are fixed
 5 to said shafts, and sprocket-chains O are mounted upon said sprocket-wheels T and have curved fingers O', which curve rearward or in the opposite direction of the travel of the chains on which they are carried. Said sprocket-
 10 chains travel at inclinations, as shown in Fig. 2 of the drawings, and through the slots I, Fig. 1 of the drawings, in the deck R' and are adapted to convey the grain as it drops off the upper inclined portion of the conveyer M
 15 downward and deposit the same upon the deck R' in position to be acted upon by the packer-arms. (Not shown.)

By the provision of a low-down binder apparatus embodying the features of my inven-
 20 tion I have found from practice that the grain will be carried from the continuous conveyer to and deposited upon the deck, where it is acted upon by the packer-arms, thus dispensing with the necessity of raising the grain, as
 25 in ordinary binders, and allowing the same to fall down an incline, which frequently causes choking of the grain and loss of the same by being jerked between the lower canvas and the lower deck, and by the provision of the
 30 three wheels as arranged the apparatus is allowed to tilt the same, as with ordinary binders, and by the arrangement of the inclined conveyers having curved fingers the grain is carried to the packers and straightened out as
 35 it is deposited upon the deck preparatory to

its being engaged by the packer-arms, and a lighter draft is afforded and a binder produced which is especially adapted for the cutting of certain kinds of grain, fodder, &c.

While I have shown a particular construction of apparatus illustrating my invention, it will be understood that I may alter the same, if desired, as to various details without in any way departing from the spirit of the invention.

Having thus fully described my invention, 45 what I claim as new, and desire to secure by Letters Patent, is—

A low-down binder comprising a frame having an axle with driving-wheel mounted thereon and a swivel-wheel, a conveyer-frame supported at one end intermediate said wheels, a grain-wheel supporting the outer end of said conveyer-frame, an endless conveyer mounted upon said frame and having a portion thereof disposed at an angle, shafts journaled in the 55 frame of the conveyer, sprocket-wheels mounted upon said shafts, decks, one of which has slots, sprocket-chains passing about said sprocket-wheels and adapted to travel through said slots at inclinations, and curved fingers 60 upon said sprocket-chains, whereby grain raised by the elevator may be conveyed to the deck of the binder, as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

DAVIS LEVI WOLF.

Witnesses:

M. S. HUDSON,

C. A. MONTGOMERY.