

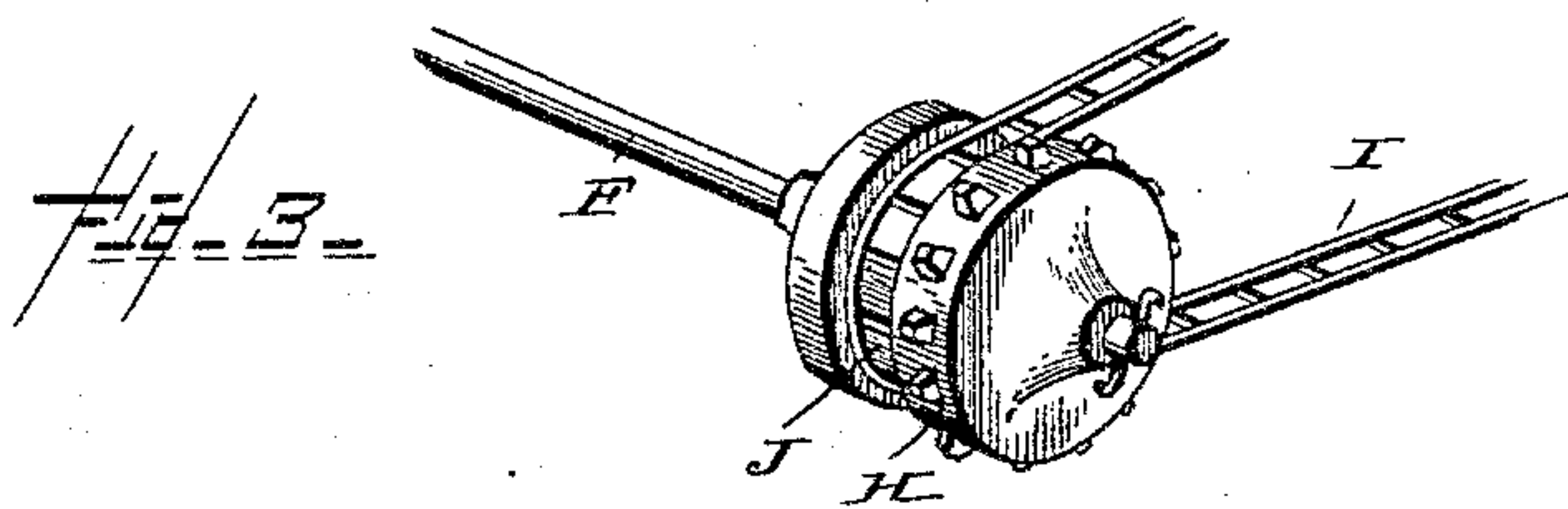
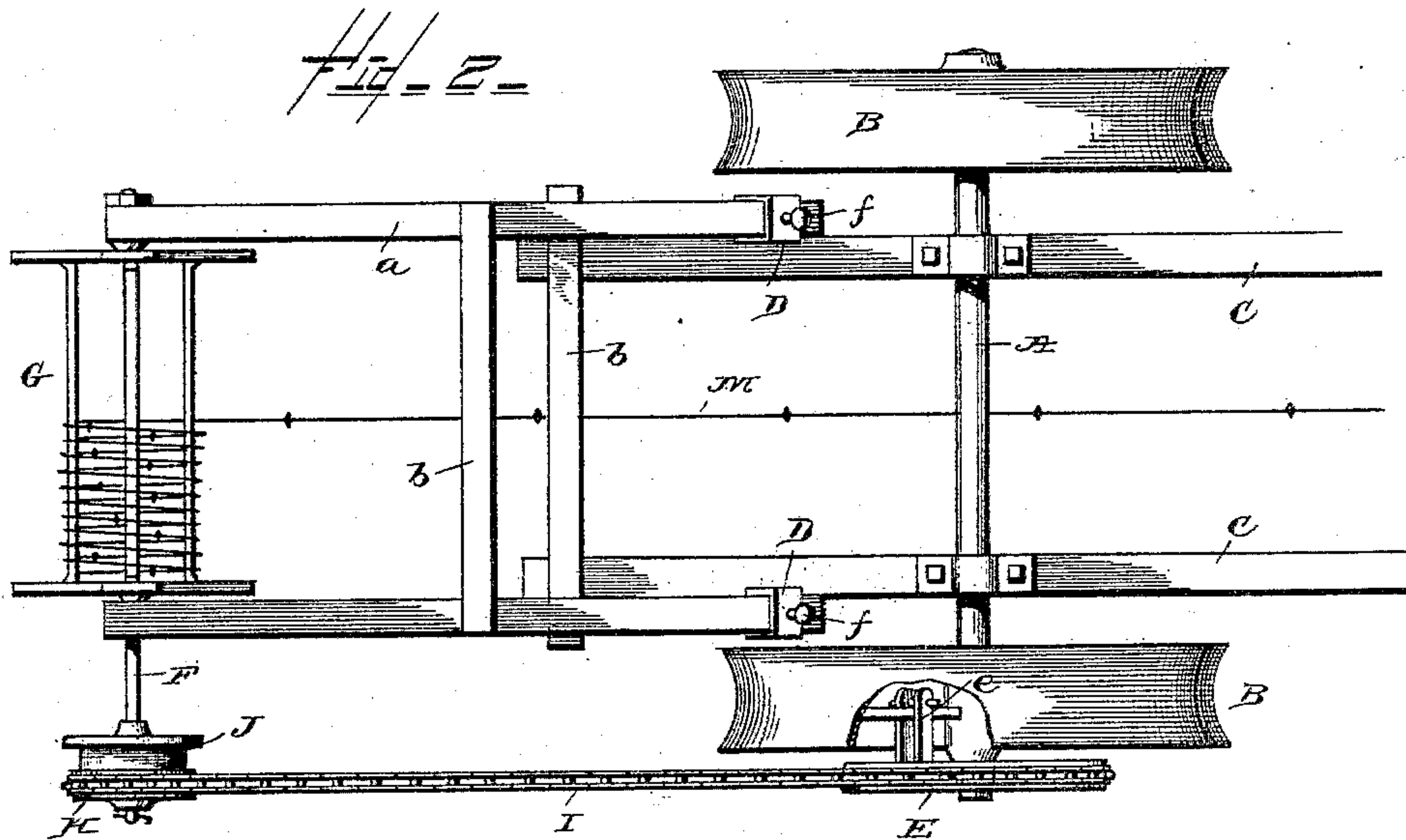
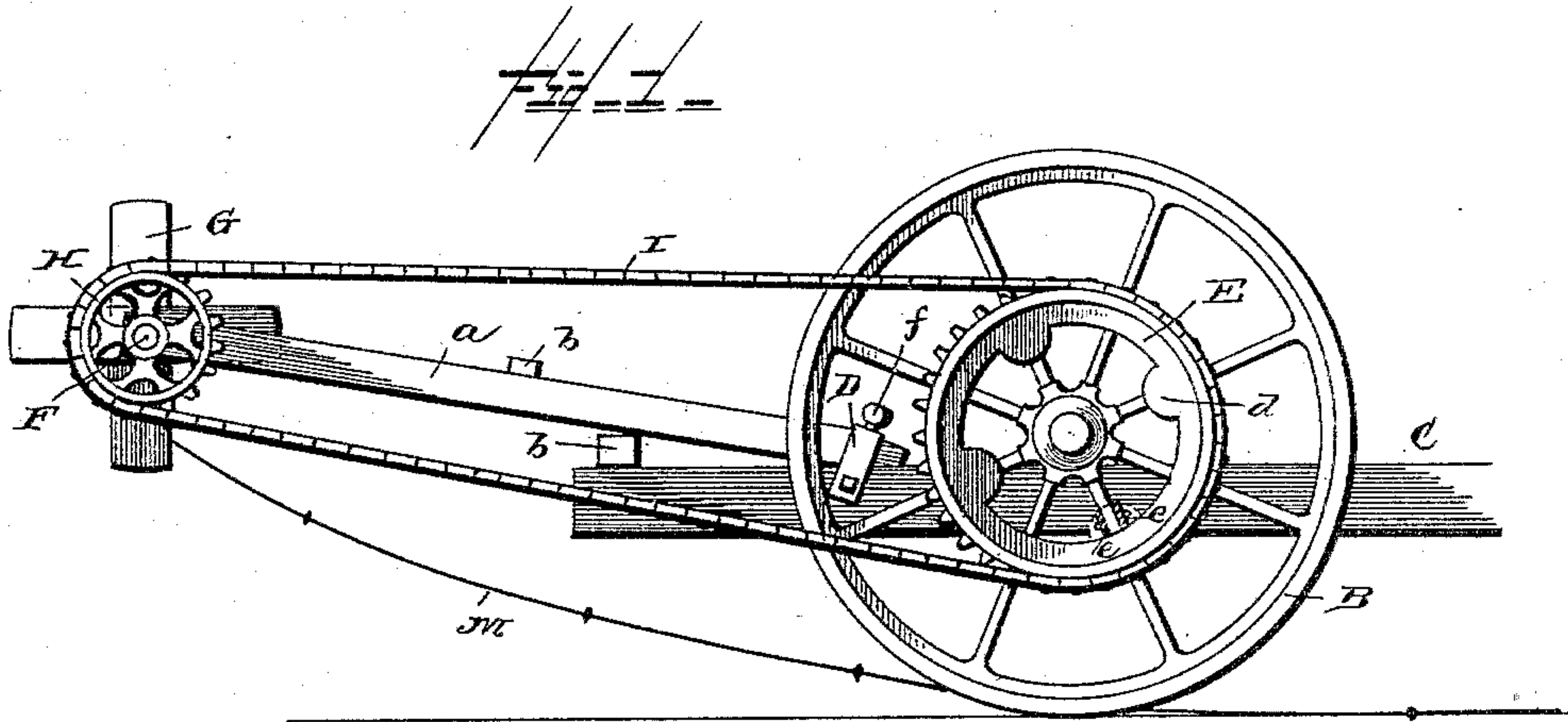
(No Model.)

W. H. & G. WERTZ.

CHECK ROW WIRE REEL ATTACHMENT

No. 411,699.

Patented Sept. 24, 1889.



Witnesses

Albert Speiden,
E. H. Bond.

Inventors
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By *his* Attorney

Chas. H. Fowler

UNITED STATES PATENT OFFICE.

WILLIAM H. WERTZ AND GEORGE WERTZ, OF ELMWOOD, ILLINOIS.

CHECK-ROW WIRE-REEL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 411,699, dated September 24, 1889.

Application filed March 23, 1889. Serial No. 304,496. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. WERTZ and GEORGE WERTZ, citizens of the United States, residing at Elmwood, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Check-Rowers; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

This invention has relation to certain new and useful improvements in check-rowers; and it has for its object to provide a simple attachment to a corn-planter, whereby the check-row wire is taken up or laid down.

The invention consists in the peculiar combinations and the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claims.

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

Figure 1 is a side view illustrating our improvement as attached to a corn-planter. Fig. 2 is a top plan of the same. Fig. 3 is a perspective view of the combined sprocket-wheel and pulley detached, with the chain shown on the pulley.

Referring now to the details of the drawings by letter, A designates the axle of the planter, and B the wheels thereon.

C designates the side bars of the planter-frame, which is provided with the castings D, into which fit the reduced ends of the forward portion of the frame of the attachment, said frame consisting of the side bars *a*, the ends of which are engaged in said castings and rest on the cross-bars *b*, connecting said side bars, on one of which rest the bars of the attachment-frame between their outer ends and their points of attachment to the planter-frame, to better support the said side bars, as shown best in Fig. 1.

E is a sprocket-wheel formed in the shape of a ring, on the inner periphery of which are

formed the lugs *d*, which are provided with flanges *e* to engage the spokes of the bearing-wheel, to which they are secured by bolts and clips, so as to make the said ring rigid with the wheel and to turn with it.

Journalled in suitable bearings in the rear ends of the side bars of the frame of the attachment is the transverse shaft F, carrying between the said side bars a drum G, on which the check-row wire M is designed to be wound. One end of this shaft is extended beyond the side bars of the attachment-frame, and has secured thereto in line with the sprocket-wheel E a smaller sprocket-wheel H, around which and the said sprocket-wheel E passes the endless sprocket-chain I.

Thumb-screws *f* are passed through the castings D and engage the ends of the side bars of the attachment-frame to detachably hold them to the planter-frame, whereby the attachment may be readily removed when desired.

The shaft F, just inside the sprocket-wheel H, carries a smooth pulley J, of slightly less diameter than the said sprocket-wheel, for a purpose hereinafter made apparent.

The operation is apparent. As the planter is driven forward it conveys motion to the shaft F through the medium of the sprocket-wheels and chain above described, and winds up the wire on the drum. When it is desired to lay down the wire for use in the field, the chain I is moved off the smaller sprocket wheel onto the smooth pulley J, thus allowing the reel or drum to slide around as the wire runs off, as, owing to the said pulley being slightly smaller than the sprocket-wheel, the chain will be somewhat loose on the pulley.

What I claim as new is—

1. The combination, with the planter-frame and its wheels, of the attachment thereto, consisting of the sprocket-wheels, sprocket-chain, drum, and smooth pulley, all substantially as shown and described.

2. The combination, with the planter-frame and the wheels, of the castings on the planter-frame, the blocks *c*, the attachment-frame detachably held in said castings and resting on said blocks, the drum journalled in the rear end of said attachment-frame, the sprocket-wheel on the bearing-wheel, the sprocket-

wheel on the shaft of the drum, and the endless chain connecting said sprocket-wheels, substantially as and for the purpose specified.

3. In an attachment to corn-planters, the
5 combination, with the side bars, of the transverse shaft journaled in the rear ends of said side bars and extended beyond one of the same, the drum on said shaft between the side bars, the sprocket-wheel on said extended end, the
10 smooth pulley also on said extended end and of less diameter than said sprocket-wheel, and the endless sprocket-chain connecting the said

sprocket-wheel with a sprocket-wheel on the wheel of the planter, substantially as shown and described.

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In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

WILLIAM H. WERTZ.
GEORGE WERTZ.

Witnesses:

S. H. SNYDER,
W. M. BROWN.