

(No Model.)

C. C. WARREN.
COTTON GIN GEARING.

No. 298,324.

Patented May 6, 1884.

Fig. 1.

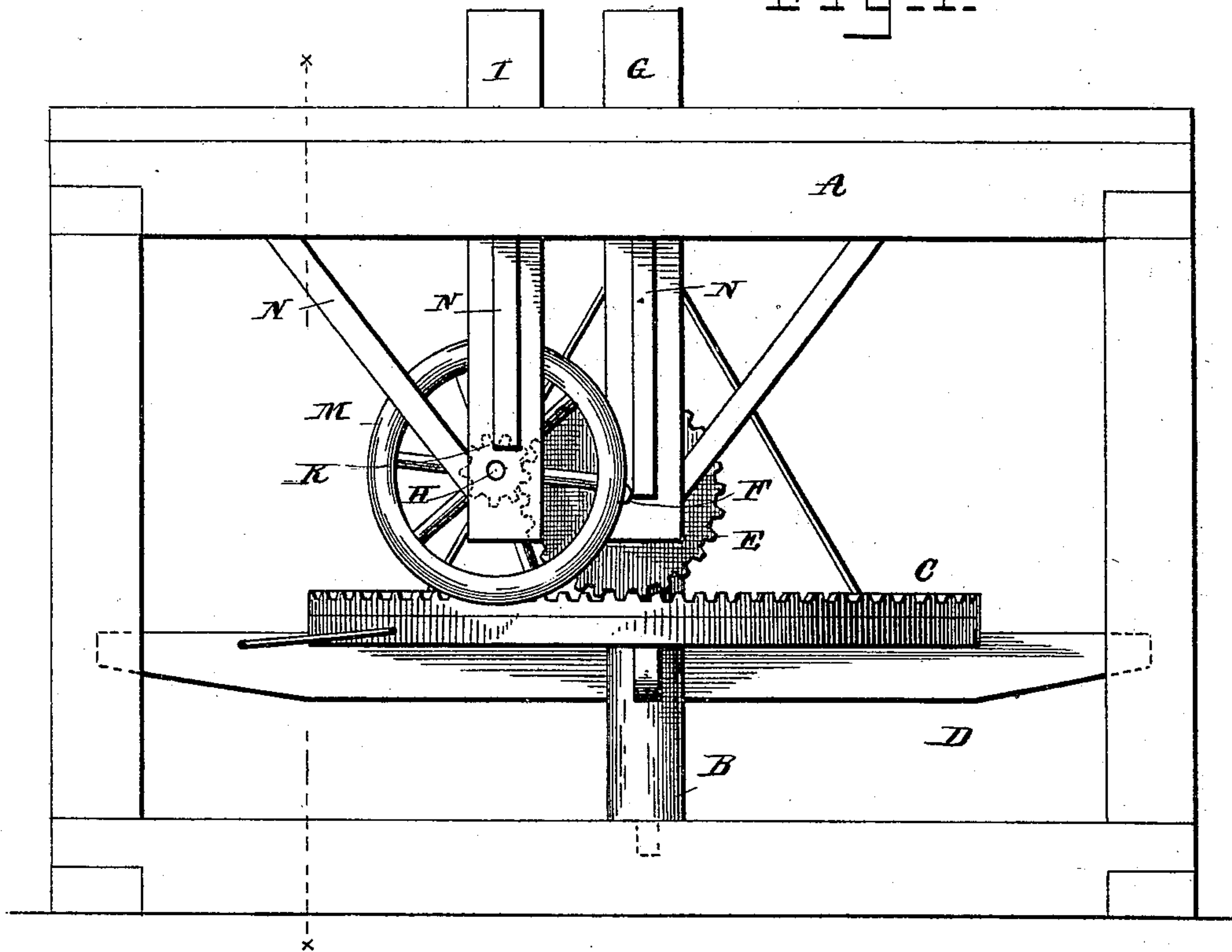
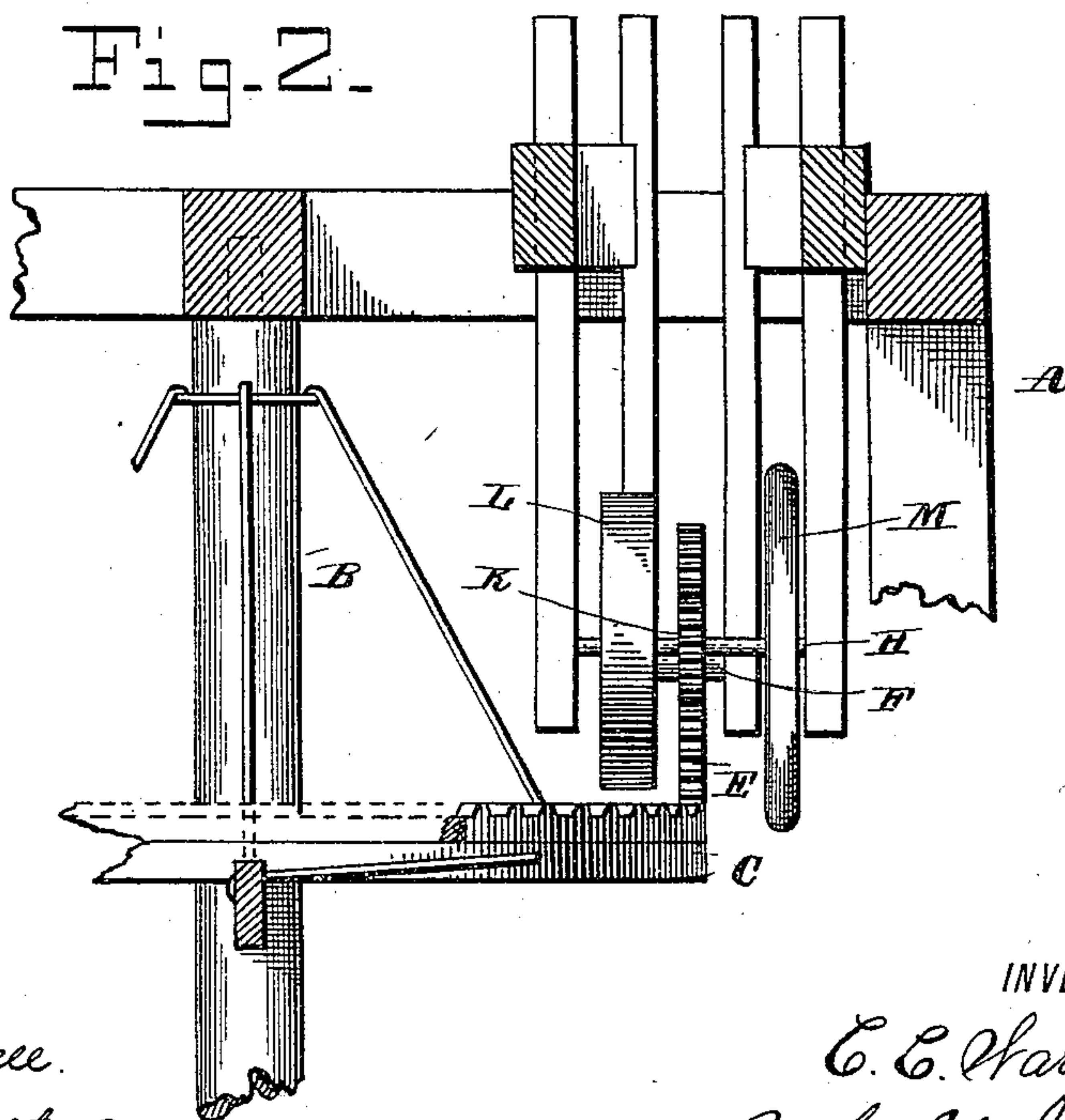


Fig. 2.



WITNESSES

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CHRISTOPHER C. WARREN, OF LODI, MISSISSIPPI, ASSIGNOR OF ONE-HALF
TO CHRISTOPHER C. IRVIN, OF SAME PLACE.

COTTON-GIN GEARING.

SPECIFICATION forming part of Letters Patent No. 298,324, dated May 6, 1884.

Application filed February 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER C. WARREN, a citizen of the United States, residing at Lodi, in the county of Montgomery and State of Mississippi, have invented certain new and useful Improvements in Cotton-Gin Gearing, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in cotton-gin gearing; and it has for its object to provide a convenient means for transmitting motion to the machinery of the gins, as more fully hereinafter specified. This object I attain by the mechanism represented in the accompanying drawings, in which—

Figure 1 is a side elevation of my invention; and Fig. 2 represents a view of a portion of the gearing, showing the same partly in section and partly in elevation.

The letter A indicates a frame-work or structure of any suitable character to support the working parts of the gearing.

B is the driving-shaft, which is mounted in a vertical position, being stepped in a suitable bearing at its lower end, and journaled suitably at its upper end. The said shaft is provided with a horizontal crown-wheel, C, and sweeps D, which are continuations of the spokes of the wheel on opposite sides.

The letter E indicates a vertical gear-wheel, which intermeshes with the teeth of the horizontal crown-wheel before mentioned. The said wheel E is mounted upon a shaft, F, which is journaled in hangers G, depending from the

top of the frame-work. The letter H indicates a horizontal shaft, which is journaled in bearings in the hangers I. The said shaft is provided with a cog-pinion, K, (intergearing with the wheel E,) and with a band-pulley, L, and fly-wheel M. The respective hangers are steadied by braces N, secured to the frame-work or structure A. The working parts of the machinery receive their motion from a suitable belt passing over the band-wheel.

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

In a cotton-gin gearing, the combination of the frame or structure with the vertical shaft journaled therein, the horizontal crown-wheel geared on its outer edge and supported by the elongated spokes, the vertical gear-wheel engaging with the said crown-wheel and supported by suitable hangers, and the balancing and transmitting mechanism consisting of a horizontal shaft supported by hangers, and provided near one end with a band-wheel and near the other with a fly or balance wheel, and near its center with a pinion-wheel engaging with the vertical gear-wheel which engages with the gear on the driving or crown wheel, all the parts being arranged to operate as an entirety substantially as described.

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

CHRISTOPHER C. WARREN.

Witnesses:

SAM LOVE,
G. G. JAMES.