

(No Model.)

L. KISSNER & J. P. OUTCALT.

CORN SHELLER.

No. 252,881.

Patented Jan. 31, 1882.

Fig. 1.

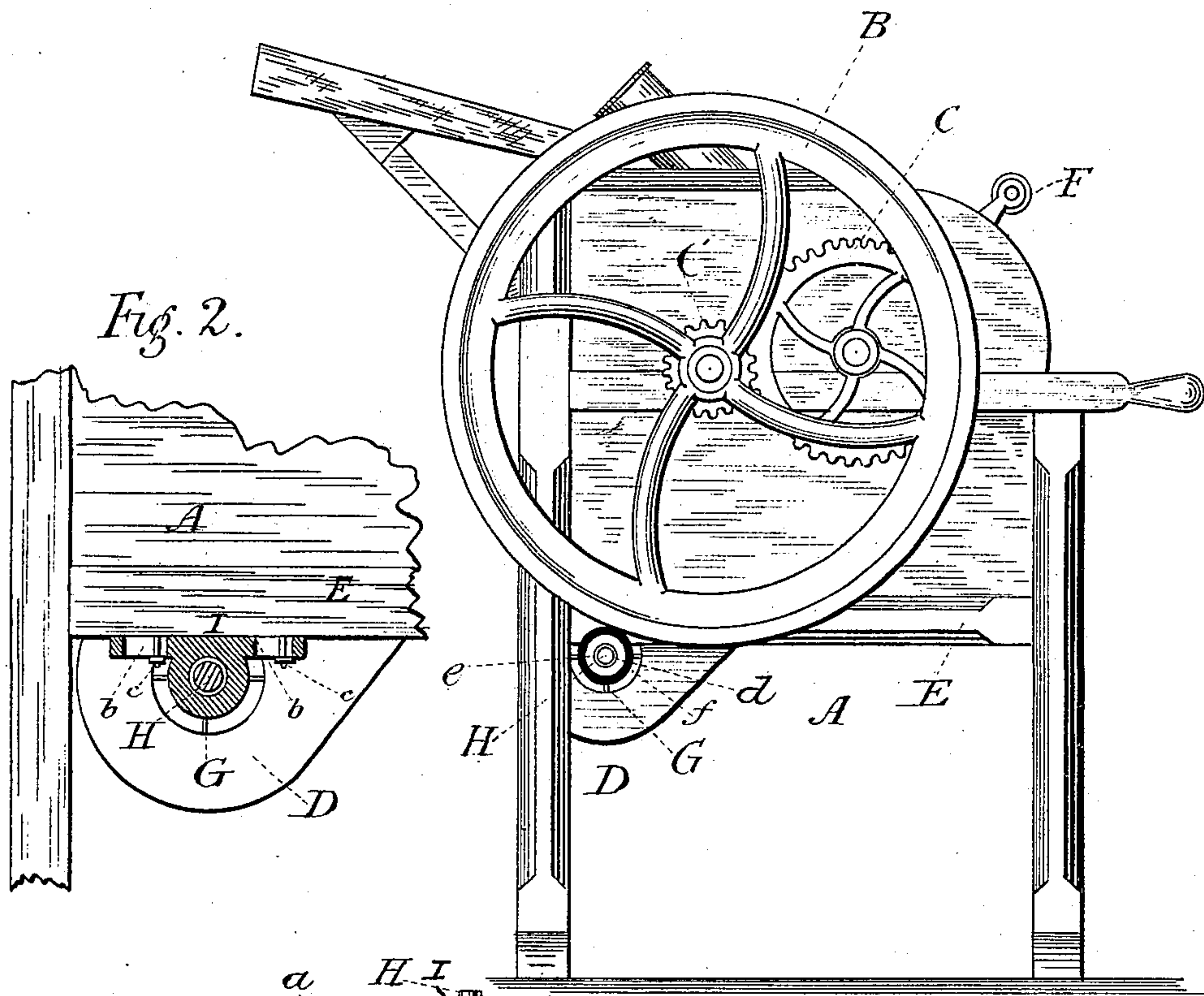


Fig. 2.

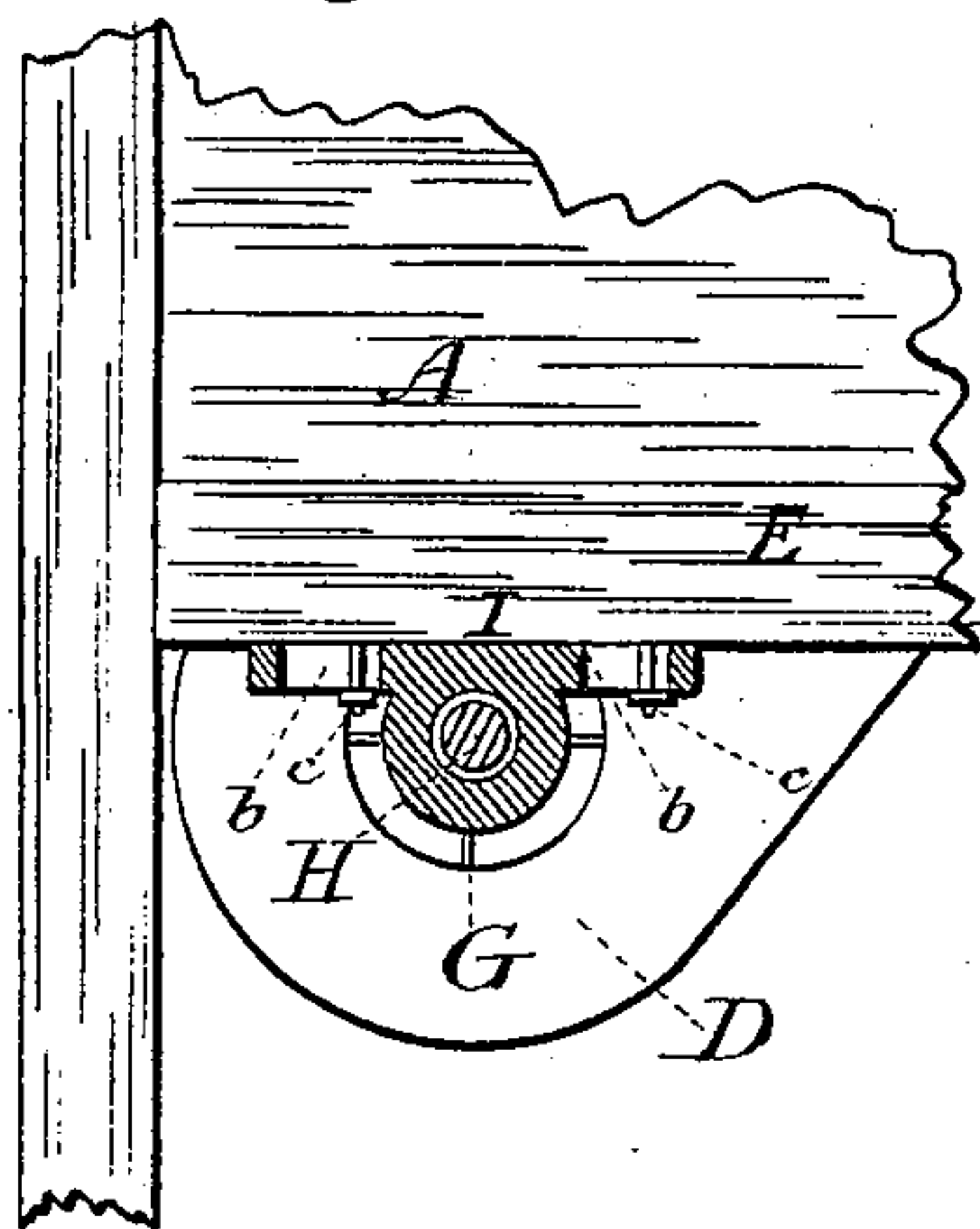
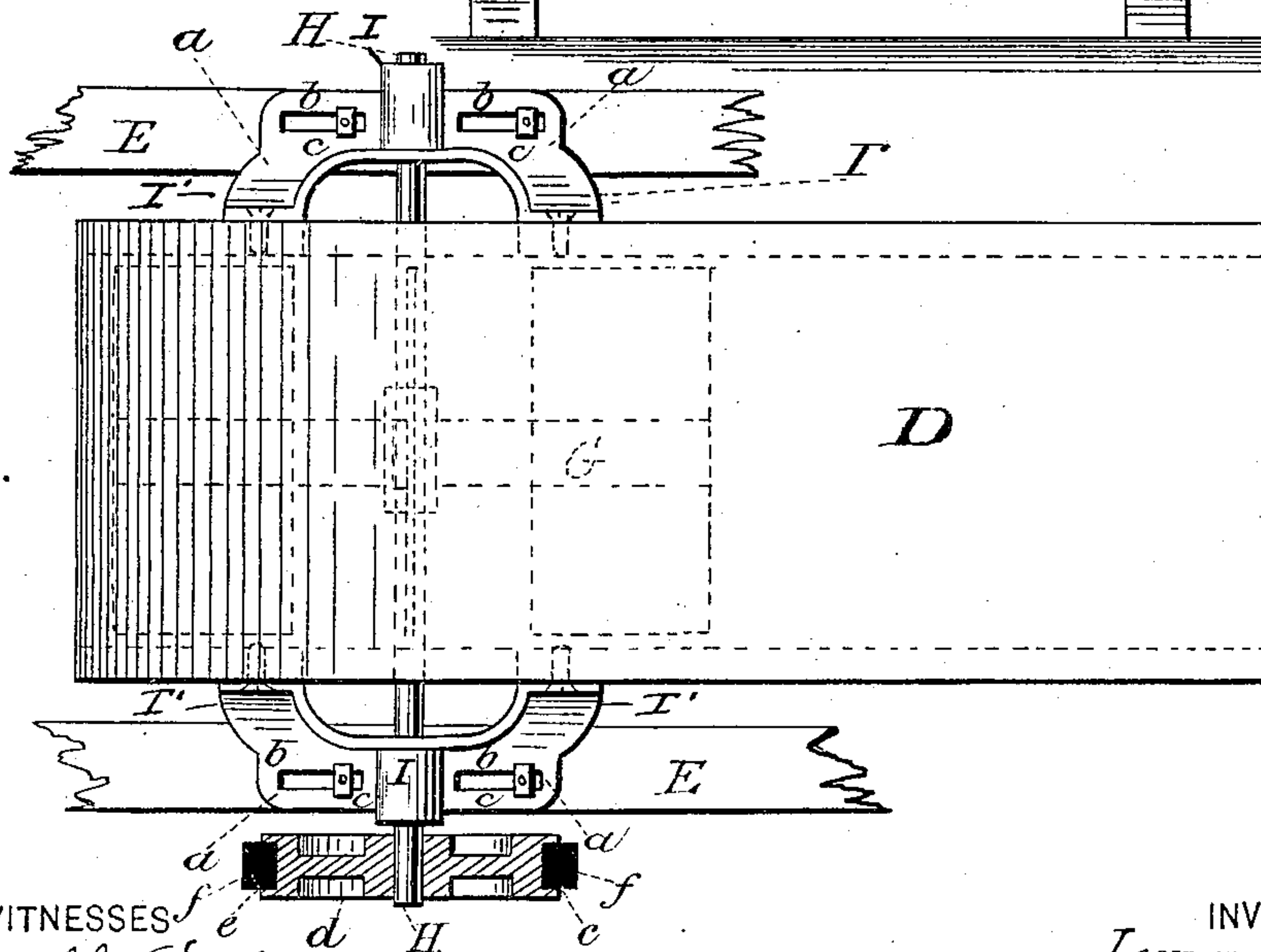


Fig. 3.



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UNITED STATES PATENT OFFICE.

LEONARD KISSNER AND JESSE P. OUTCALT, OF LANCASTER, OHIO; SAID
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CORN-SHELLER.

SPECIFICATION forming part of Letters Patent No. 252,881, dated January 31, 1882.

Application filed July 6, 1881. (No model.)

To all whom it may concern:

Be it known that we, LEONARD KISSNER and JESSE P. OUTCALT, citizens of the United States of America, residing at Lancaster, in the county of Fairfield and State of Ohio, have invented certain new and useful Improvements in Corn-Shellers; and we do hereby 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 to letters or figures of reference marked thereon, which form a part of this specification.

Our invention consists in a novel means of providing for the adjustment of the friction-pulley on the fan-shaft toward the periphery of the wheel from which it receives motion, while permitting the fan-casing to occupy a permanent position.

The annexed drawings, to which reference is made, fully illustrate the invention, in which—

Figure 1 represents a corn-sheller with the improvement attached thereto. Fig. 2 represents a part of the body of the sheller with the box or bearing and fan-shaft in section. Fig. 3 represents a plan view of the fan-casing enlarged and detached from the sheller.

A designates a corn-sheller of the ordinary construction, having the fly-wheel B, gear-wheels C, fan-casing D, and the side rails, E, as well as the handle F, by which the sheller is operated.

Within the fan-casing D is arranged the fan G, that is keyed to a shaft, H, running cross-wise the sheller and beneath the same. Said shaft has its end bearings in boxes I, secured to the sides of the casing D. These boxes are formed on brackets I', which are detachably secured to the fan-casing by means of screws, and have flange portions a, in which are formed longitudinal slots b, through which pass screws or bolts c, that are secured to the side rails, E, of the sheller aforesaid.

Secured to one end of the shaft H is the pulley or wheel d, having a groove, e, on its periphery, into which is seated a rubber ring, f, that bears against and is operated upon by the fly-wheel aforesaid.

Having given a description of the sheller, its fan, shaft, pulley, &c., we will now proceed and explain the manner in which it is operated.

In operating the sheller the handle is grasped

by the operator and given a rotary movement, thereby revolving the gear-wheels C, thus communicating motion to the fly-wheel B, which latter causes the fan G to revolve by means of the pulley or wheel d coming in contact with and bearing against the periphery of the fly-wheel B.

It will thus be observed by the foregoing description that motion is given to the fan by means of the pulley or wheel on the end of the fan-shaft bearing against the periphery of the fly-wheel, thereby dispensing with belts, &c., commonly used for this purpose. At the same time said pulley, being provided with rubber on the periphery thereof, prevents slipping of one upon the other. The rubber will be worn away gradually, and in order to compensate for this wear the pulley must be adjusted closer to the periphery of wheel B. This adjustment is attained by first loosening the nuts of the bolts c on both sides of the frame, and then taking out the screws which secure the bracket on the pulley side to the fan-casing, and then moving the detached bracket so as to bring the pulley up snugly to the wheel B, when the bracket is to be attached at a new point to the fan-casing. The bracket on the other side is then detached, moved up to bring the shaft in proper position, and the nuts of bolts c tightened up.

A rubber-faced friction-pulley is old and well known, and we do not claim it either separately or in combination with an impinging driving-wheel.

Having described this invention, what is claimed as new, and desired to be obtained by Letters Patent, is—

The combination, with the fan-casing and supporting-rails E, of the brackets I', detachably secured to said casing, having slot-and-bolt connection to said rails, and provided with journal-boxes I, the fan-shaft, the rubber-faced pulley on said shaft, and the wheel B, having its periphery arranged to impart motion to said pulley, the whole constructed and operating as specified.

In testimony whereof we do affix our signatures in presence of two witnesses.

LEONARD KISSNER.
JESSE P. OUTCALT.

Witnesses:

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