(No Model.)

J. M. JACO.

COTTON GIN GANG SAW CLEANER.

No. 389,388. Patented Sept. 11, 1888.

Fig. 1

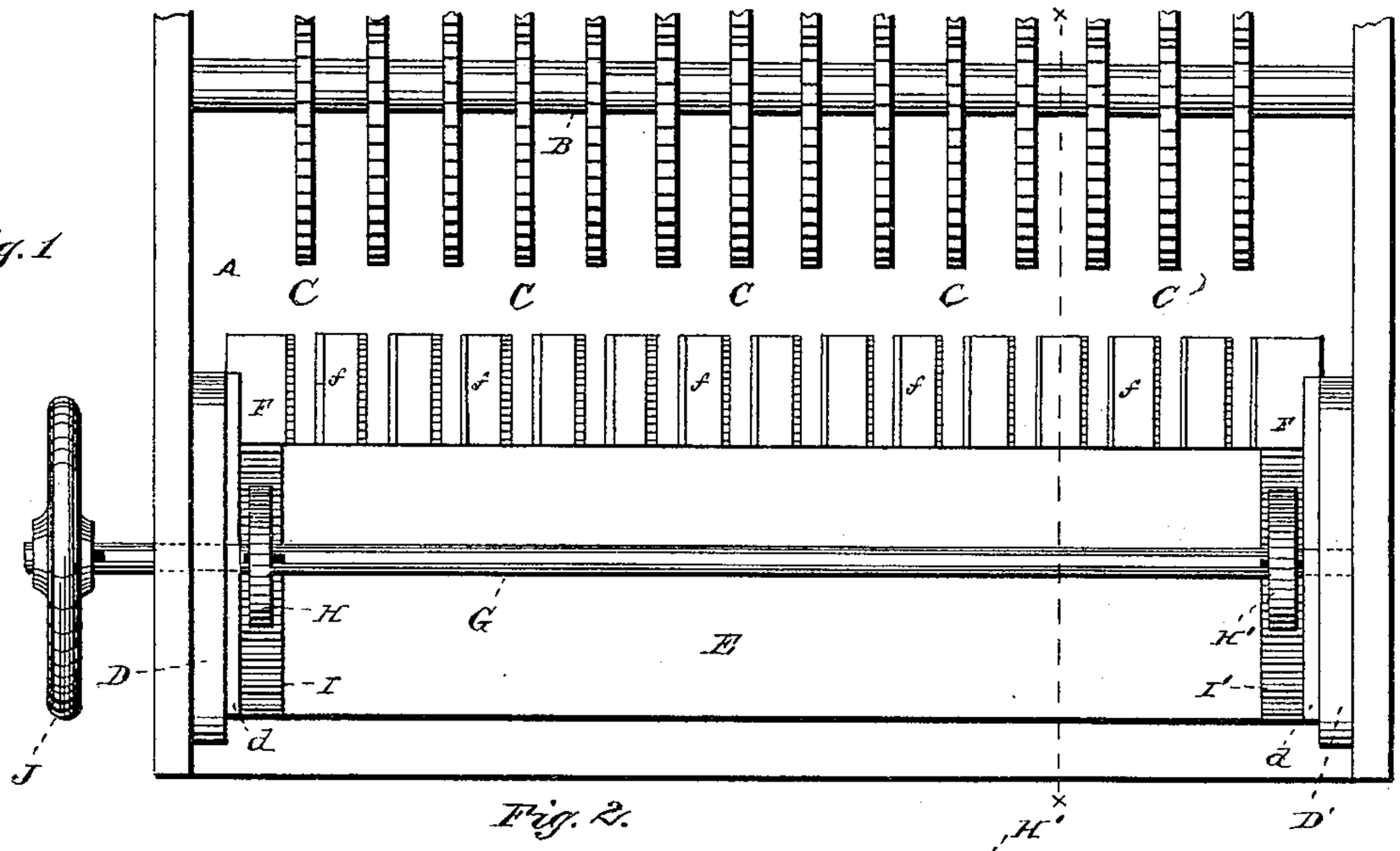


Fig. 2.

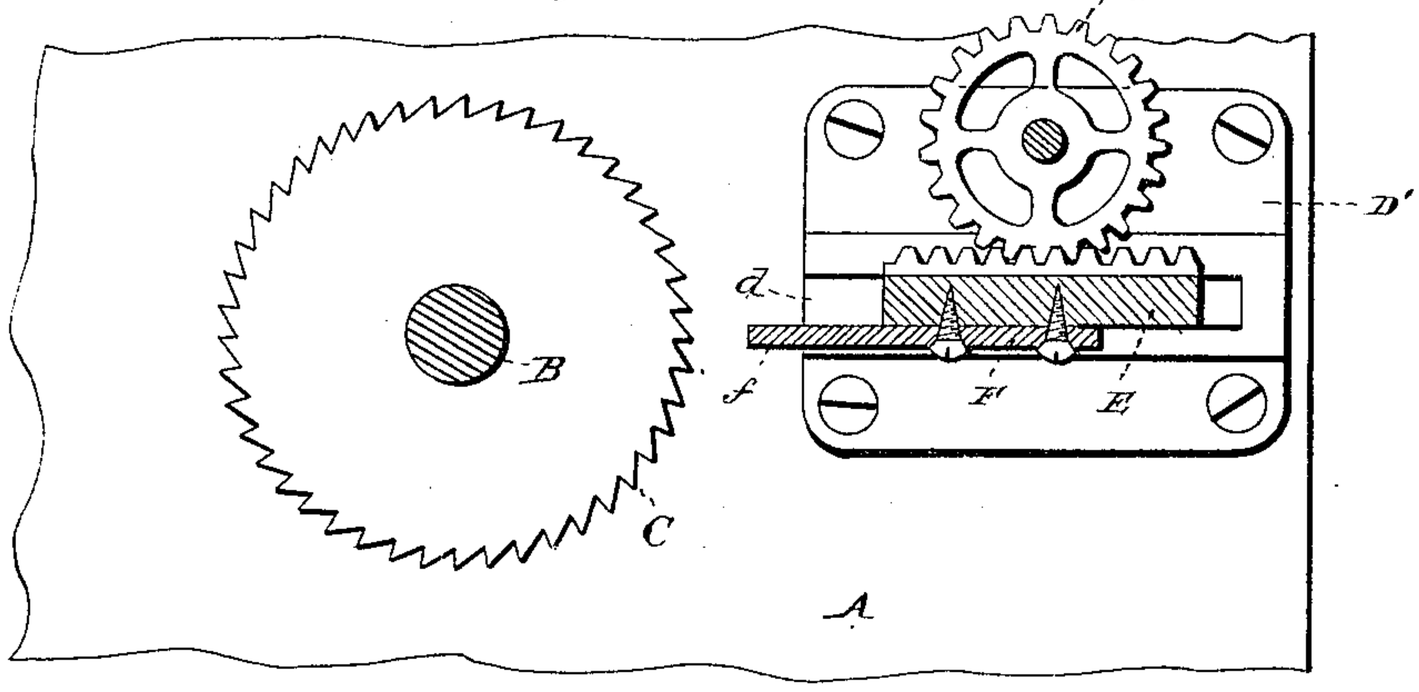
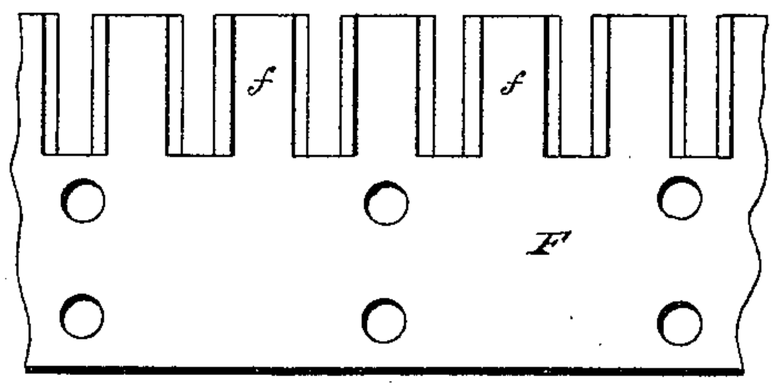
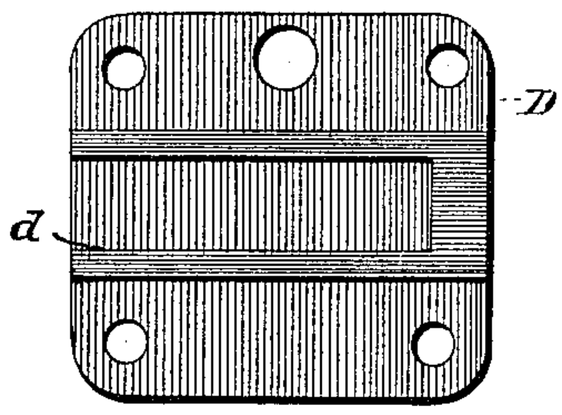


Fig. 3.

Fig. 4.





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UNITED STATES PATENT OFFICE.

JOHN MARTIN JACO, OF CALF CREEK, ARKANSAS.

COTTON-GIN GANG-SAW CLEANER.

SPECIFICATION forming part of Letters Patent No. 389,388, dated September 11, 1888.

Application filed March 27, 1888. Serial No. 268,693. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARTIN JACO, a citizen of the United States, residing at Calf Creek, in the county of Searcy and State of Arkansas, have invented certain new and useful Improvements in Cotton-Gin Gang-Saw Cleaners; and I 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.

My invention relates to improvements in cotton gin gang-saw cleaners; and it consits in the construction and novel combination of parts, as hereinafter set forth, illustrated in the accompanying drawings, and pointed out in the appended claim.

The object of my invention is to provide a cheap and simple means of cleaning both sides of the gang-saws of cotton-gins at the same time when they become gummed, and to provide, further, a knife that will enter its entire length between the saws and not twist or bend the teeth.

I have shown my improved cleaner attached to the frame-work of a cotton-gin, in which—

Figure 1 is a plan view of my improved cleaner attached to the frame of a cotton-gin, the saws of the same being shown. Fig. 2 is a transverse section on the line *x x* of Fig. 1. Fig. 3 is a detailed view of the knives. Fig. 4 is a detail view of one of the brackets, showing the guideway *d*.

Referring to the accompanying drawings by letter, A represents the frame of a cotton-gin, and B a shaft turning in suitable bearings and having secured upon it a series of saws, C.

D and D′ designate brackets secured by screws or bolts to the sides of the frame-work of the gin. These brackets have guideways or bearings *d*, in which the sliding block E travels when operated by means hereinafter explained.

F represents a piece of flat steel, preferably about one-eighth of an inch in thickness, secured to the sliding block E, and having made integral therewith the parallel edged knives *f*, said knives being parallel to each other and at right angles to the piece F.

G is a shaft journaled in suitable bearings in the brackets D and D′, and having secured to one of its ends the wheel J for operating the cleaner.

The shaft G has keyed upon it near the ends thereof the pinions H and H′, which mesh with the rack-bars I and I′, secured to the sliding block E, as shown.

The operation of the machine is as follows: When the saws become gummed from ginning damp cotton, the gin is stopped, and the knives are brought into contact with the saws by means of the wheel J, pinions H and H′, and rack-bars I and I′. The saws are then turned backward through one revolution, and the gummy cotton is then cleaned from both sides of the saws by the knives *f*.

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

In a cleaner for the gang-saws of a cotton-gin, the combination, with the brackets D and D′, provided with the guideways *d*, the sliding block E, having secured thereto the parallel knives *f*, rack-bars I and I′, the shaft G, having the pinions H and H′, meshing with the rack-bars, and the operating-wheel J, substantially as specified.

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

JOHN MARTIN JACO.

Witnesses:
BENJAMIN F. SNOW,
CORNELIOUS L. MARTIN.