

(No Model.)

J. T. WEBB.
CANE MILL.

No. 335,862.

Patented Feb. 9, 1886.

FIG. 1.

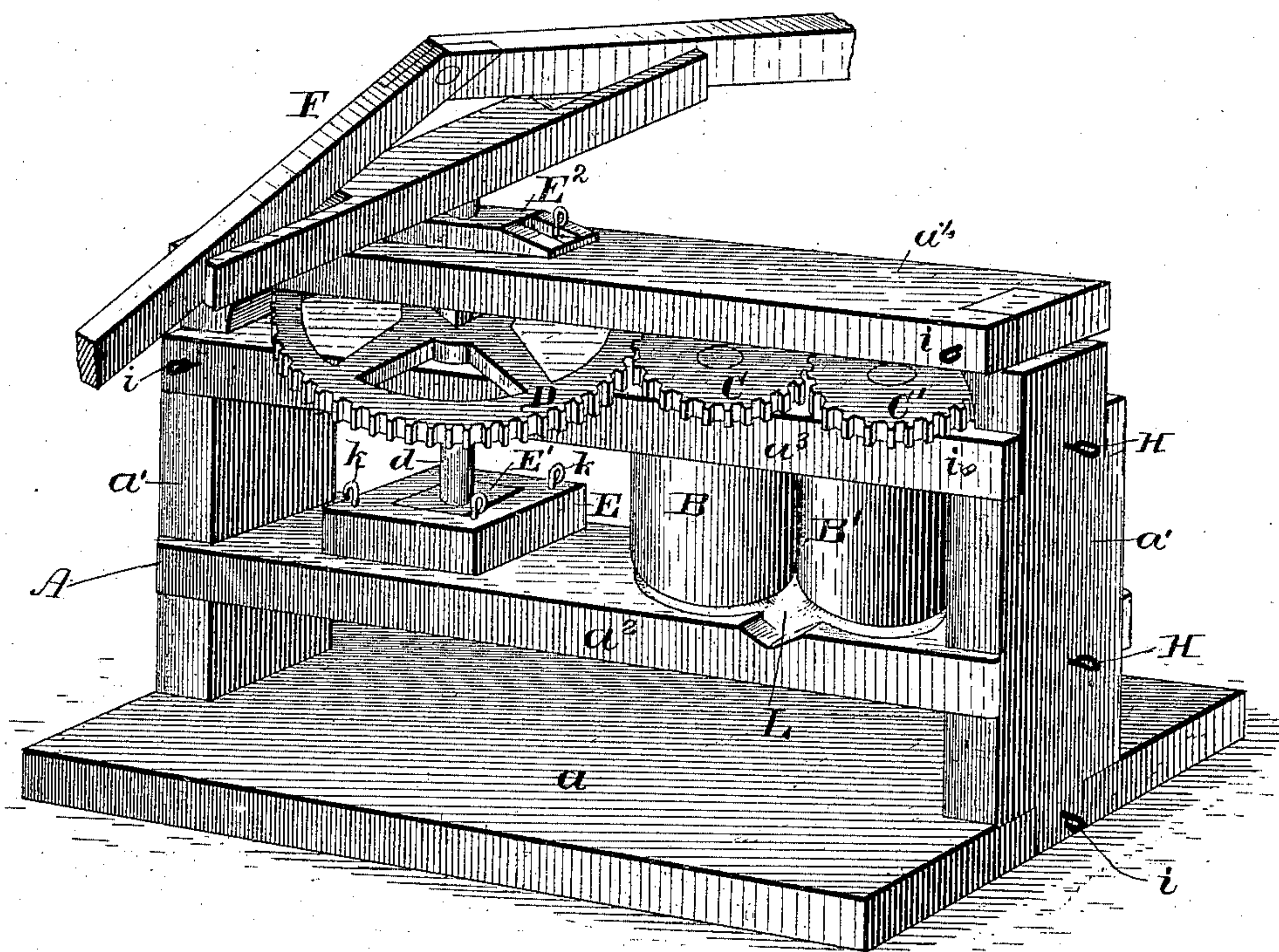
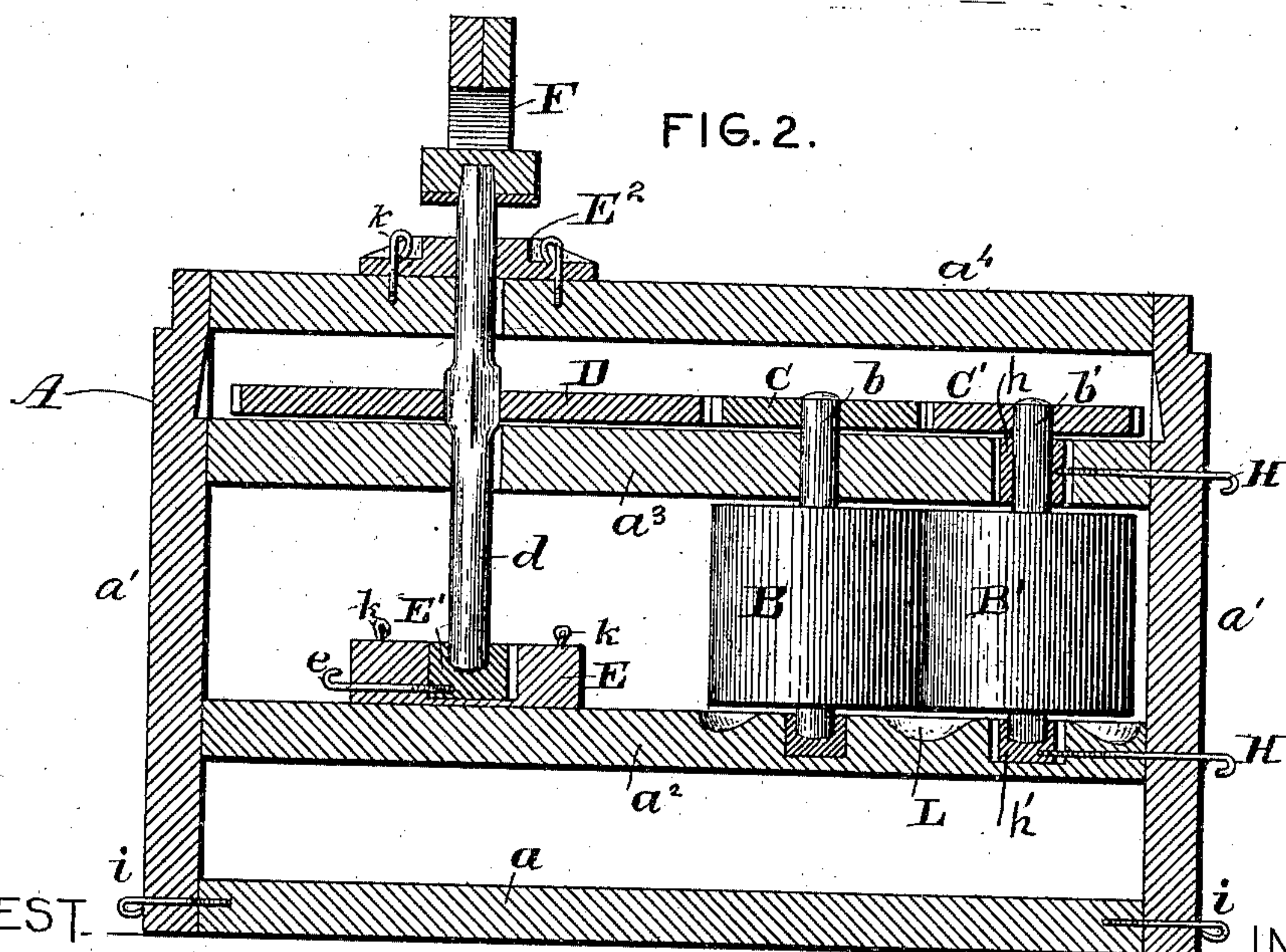


FIG. 2.



ATTEST.

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CANE-MILL.

SPECIFICATION forming part of Letters Patent No. 335,862, dated February 9, 1886.

Application filed August 11, 1885. Serial No. 174,131. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. WEBB, a citizen of the United States, residing at Courtney, Grimes county, State of Texas, have invented
5 an Improvement in Cane-Mills, as set forth in the annexed specification.

Figure 1 is a perspective view of my improved cane-mill; Fig. 2, a vertical central section of the same.

10 This invention belongs to that class of devices known as "cane-mills" or "crushers;" and the novelty consists in the construction and arrangement of the parts, as will now be more fully set out and claimed.

15 In the accompanying drawings, A denotes any convenient frame, made of a bed-piece, a , vertical standards a' , secured in or to said bed-piece, and horizontal pieces a^2 , a^3 , and a^4 , fixed at each end to said standards a' , and between
20 which the vertical rollers B B' are placed, having on the ends of their shafts b b' the pinions C C', which revolve between the horizontal pieces a^3 and a^4 , and operate in connection with the gear-wheel D, as will be hereinafter
25 explained.

On the upper side of the horizontal piece a^2 is fixed the base E, in which is placed the box E', to hold the lower end of the vertical shaft d of gear-wheel D. This shaft extends
30 up through the pieces a^3 and a^4 , on which last is a box, E², for the upper part of the shaft. The box E' can be moved horizontally by the screw-rod e , and the box E² can also be moved horizontally by changing the point of inserting the screws k in piece a^4 . On the upper
35 end of this shaft is placed the sweep F, by which the parts are operated in the usual way.

The teeth of the wheel D mesh with the pinion C on the upper part of the vertical shaft
40 b of the roller B, by which said shaft is journaled in pieces a^2 a^3 of the frame. The movement of the wheel D communicates motion to this roller, and in turn this is communicated
45 to the pinion C' on the upper end of shaft b' of the roller B', which is thus in like manner with roller B journaled in or between said horizontal pieces. The wheel D being many times larger than the said pinions, of course

one revolution of it will cause the rollers B B' 50 to revolve proportionally faster in accordance with the relative number of teeth in the wheel and pinions.

The cane is fed in the usual way and manner between the rollers, and the juice expressed 55 is carried off in the usual manner from the trough L in or upon the piece a^2 . The rollers can be adjusted close to each other by means of the screw-threaded rods H, which pass through one of the standards and engage in
60 boxes h h' , respectively arranged near the top and base of the shaft b' . The shaft d may also be moved horizontally in unison with the movements of shaft b' . In this way the position of these rollers can be easily regulated toward or
65 from each other, as may be desired or necessary.

The several parts of frame A are held together by screw-threaded rods i , so that the frame can be easily taken apart and as easily 70 set up again. So, also, the base and upper boxes for the shaft d are fixed in position by set-screws k , to assist in this ease of taking apart or putting the device together. It will be noted that this structure is very simple, 75 cheap, durable, and efficient. The fact that the gear and pinions are all in the same line is also a feature of great value.

Having now described my invention, what I desire to claim is— 80

A cane-mill consisting of the frame A, composed of bed-piece a , vertical standards a' , and horizontal pieces a^2 a^3 a^4 , the piece a^2 having trough L, the vertical shaft d , horizontally movable, as described, and provided with the 85 gear D, the roller B, having stationary shaft b , provided with pinion C, the roller B', having shaft b' , provided with pinion C', boxes h h' , and screw-threaded rods H H, all constituted and arranged in the manner and for the pur- 90 poses described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN T. WEBB.

Witnesses:

J. EARL PRESTON,
W. C. PRESTON.