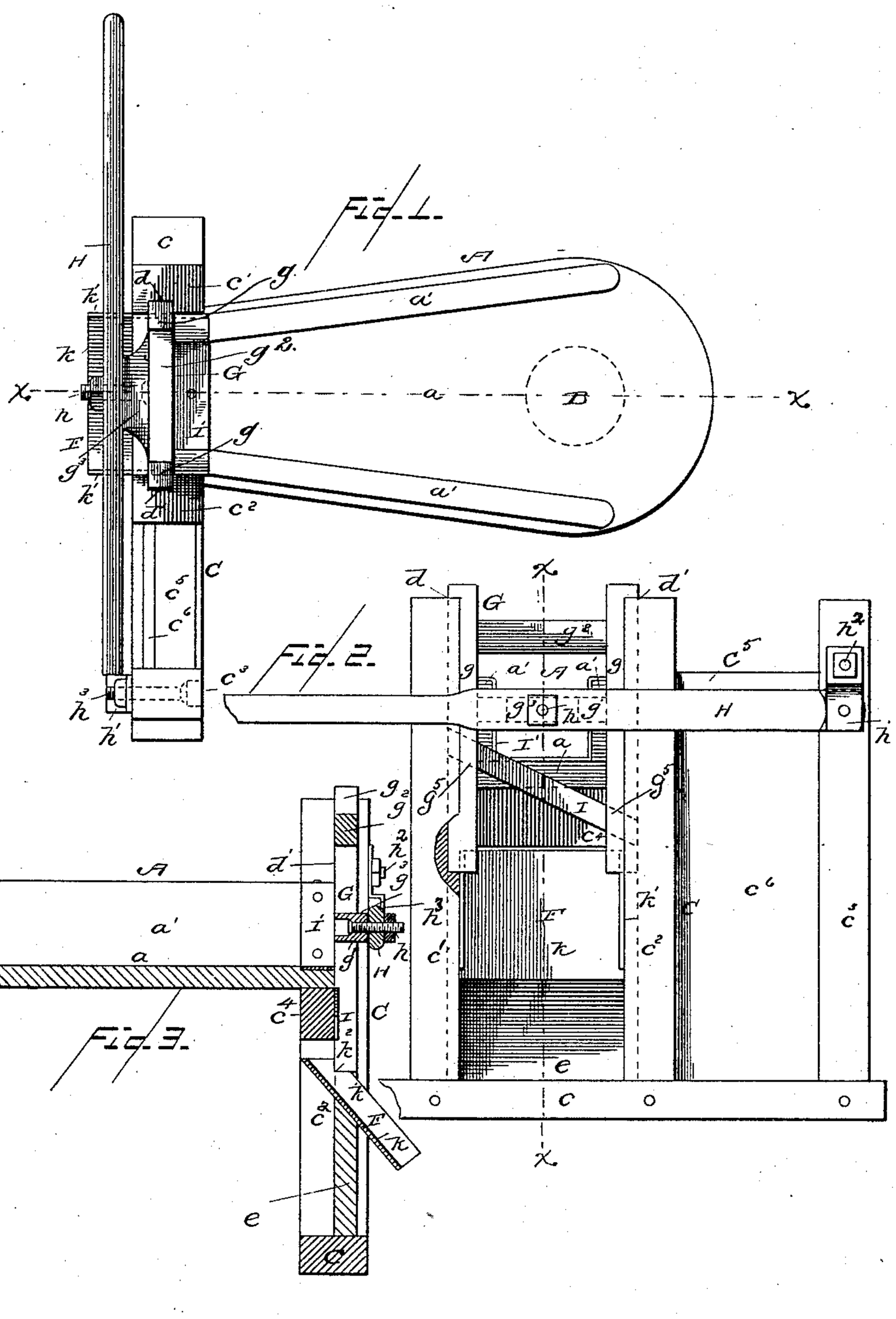
(No Model.)

J. C. WILSON.

FEED CUTTER.

No. 341,199. Patented May 4, 1886.



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UNITED STATES PATENT OFFICE.

JOHN CALHOUN WILSON, OF BROWNWOOD, TEXAS.

FEED-CUTTER.

SPECIFICATION forming part of Letters Patent No. 341,199, dated May 4, 1886.

Application filed February 4, 1886. Serial No. 190,843. (No model.)

To all whom it may concern:

Be it known that I, JOHN CALHOUN WILSON, a citizen of the United States, residing at Brownwood, in the county of Brown and State of Texas, have invented a new and useful Improvement in Feed-Cutters, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to feed-cutters adapted for use by farmers and others in cutting hay, straw, &c., for cattle; and to this end the invention consists in the construction, arrangement, and combination of parts for service, substantially as hereinafter described, and specifically pointed out in the claim.

In the drawings, Figure 1 is a top plan view of a feed-cutter embodying my improvement. Fig. 2 is a front elevation thereof, and Fig. 3 is a vertical section taken on the line *x x* of Fig. 2.

Referring to the drawings, in which similar letters of reference denote similar parts, A designates the body of the cutter, having a bottom, *a*, the side edges of which are inclined toward each other from the rear end of the bottom to the front thereof, and sides *a'*, having rounded rear ends.

B designates a leg projecting downward from the rear end of the bottom, to support said end.

C designates the frame that supports the forward end of the body A, and in which the cutting knife operates. Said frame consists of a sill or base timber, *c*, and uprights c' c^2 c^3, the two former of which, c' c^2, are connected near their middles by a transverse timber, c^4, upon which the forward end of the body A rests.

d d' designate grooves formed upon or in the inner edges of the uprights c' c^2 near the outer faces thereof, to receive at the bottom of said uprights a panel, *e*, having a portion of its upper edge beveled or inclined, that holds in position an inclined trough, F, for a purpose hereinafter described, and a vertically-sliding frame, G, that carries the cutter-knife. The panel *e*, at its side edges within the grooves *d d'*, projects upwardly a short distance to form stops that limit the downward movement of the frame G.

G designates a frame that operates up and down in the grooves *d d'*. Said frame is rectangular in cross-section, and consists of side rails, *g*, connected together near their middles and at their upper ends by transverse rails g' g^2, the former of which, at the middle of the rail, is provided with a forwardly-projecting portion, g^3, to the outer surface of which is pivoted, at *h*, a lever, H, the opposite end of which is pivoted to a swinging link or hinge-plate *h'*, connected by a bolt, h^2, with the upright c^3, near the top thereof. The link *h'* is provided with an offset portion, h^3, so that the end of the lever H may be placed behind said offset. The uprights c^2 c^3 are connected together at their tops by a rail, c^5, the space below said rail between the uprights c^2 c^3 being filled with a panel, c^6, that operates in conjunction with the outer surface of the uprights c' c^2 c^3 and panel *e*, to prevent feed after it has been cut from accumulating below the body of the cutter.

I designates the cutter, that is arranged diagonally between and secured to the inner faces of the rails *g* of the frame G in slots g^5 in said faces. The inner surface of the knife I slides against the outer cutting-edge of a metallic plate, I', preferably steel, secured to the inner surfaces of the bottom and sides of the body A at the forward ends thereof.

F designates a metallic trough, having bottom *k* and upwardly-turned edges *k'*, provided at or near their tops with V-shaped detents k^2. This trough is secured upon the upper inclined edge of the panel *e*, and forms a chute for the cut hay, grain, &c., the detents k^2 therein operating in conjunction with the upwardly-projecting side edges of the panel *e*.

The operation of my improvement will be understood without further description.

I claim—

In a hay or feed-cutter, a body, A, having bottom and sides provided at their forward ends with a metallic plate, I', and supporting-leg B, and frame C, having sill *c*, uprights c' c^2 c^3, and panels *e* c^6, in combination with frame G, sliding in grooves *d d'* in the uprights c' c^2, and provided with knife I, lever H, swinging link *h'*, having offset h^3, and inclined trough *k*, having sides *k'*, provided with detents k^2, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN CALHOUN WILSON.

Witnesses:

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