

(No Model.)

S. M. CARTER.
CUTTING APPARATUS.

No. 452,212.

Patented May 12, 1891.

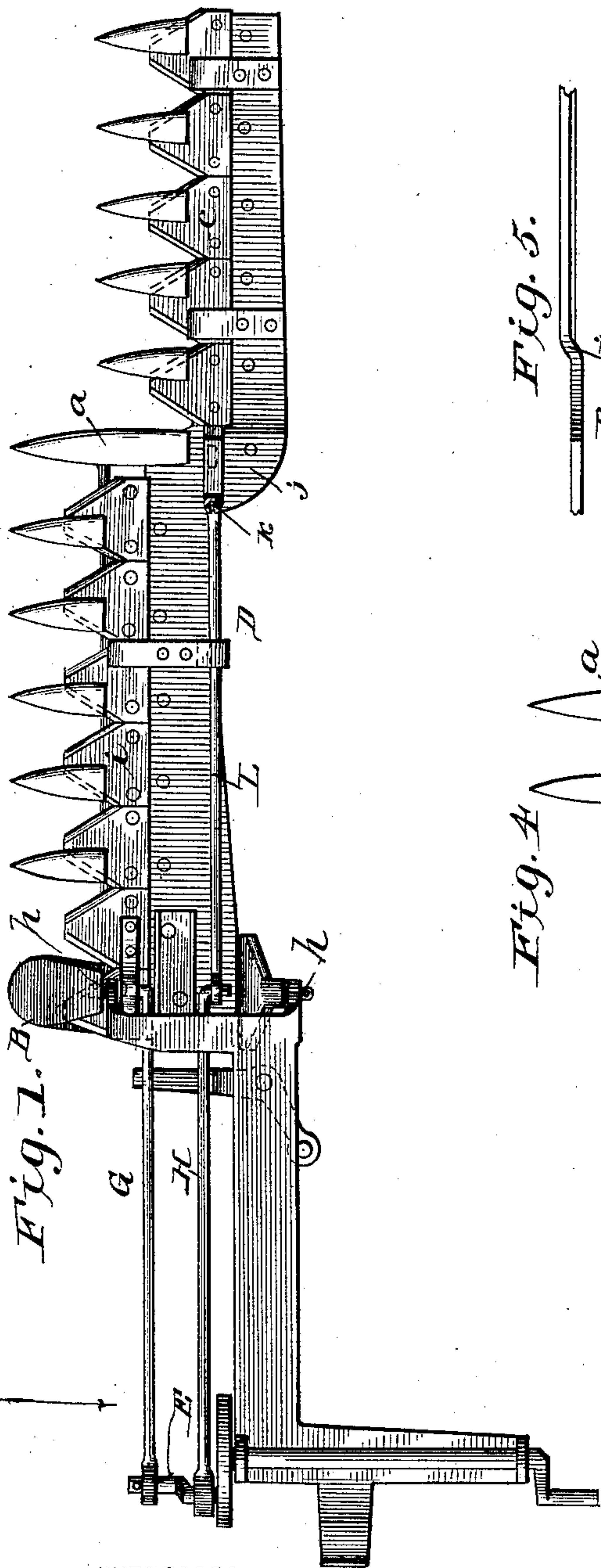


Fig. 5.



Fig. 4.

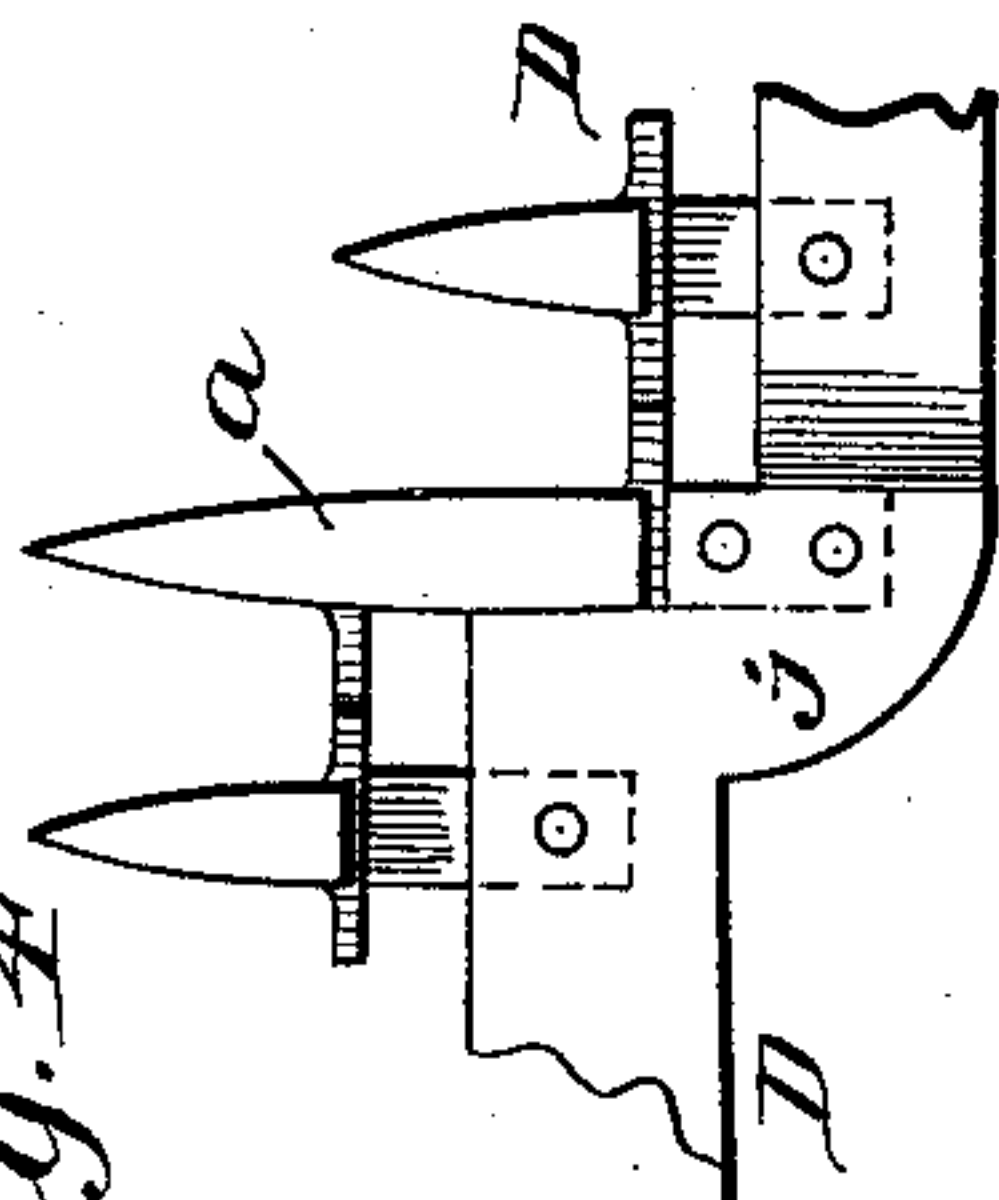


Fig. 2.



Fig. 3.

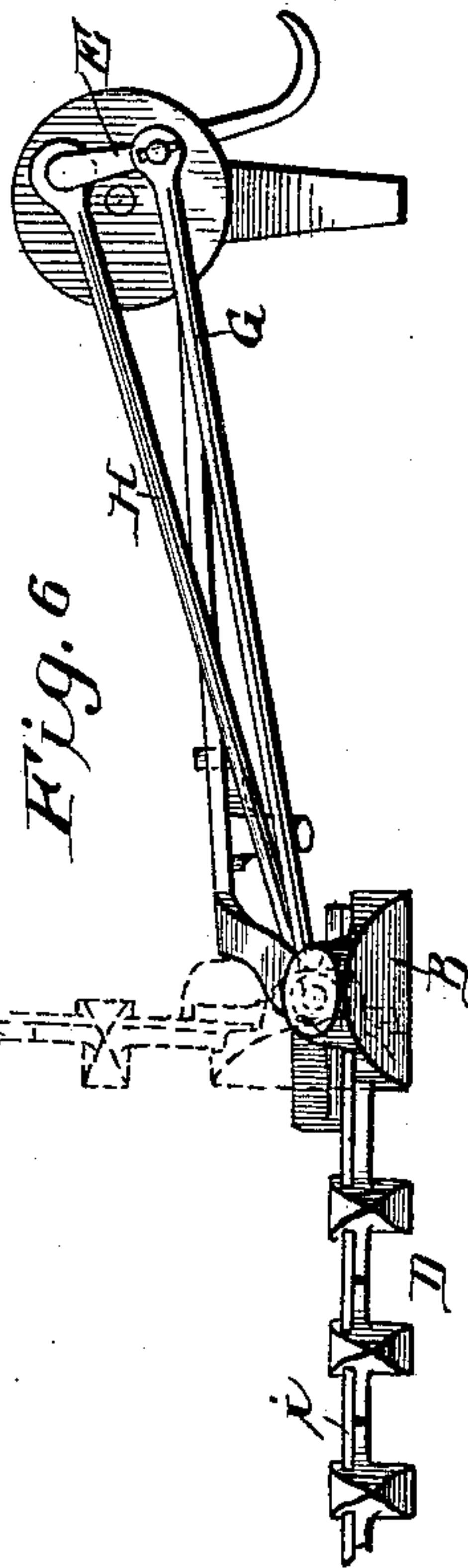
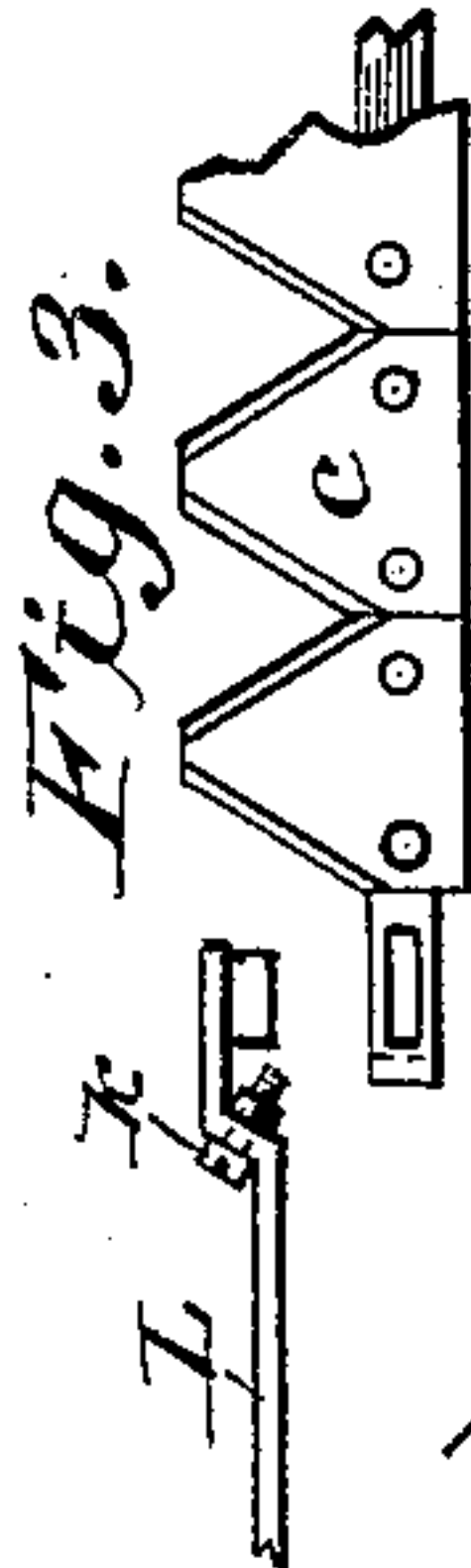


Fig. 7.



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CUTTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 452,212, dated May 12, 1891.

Application filed August 16, 1890. Serial No. 362,241. (No model.)

To all whom it may concern:

Be it known that I, SETH M. CARTER, of Jamesport, in the county of Daviess and State of Missouri, have invented a new and useful Improvement in Cutter-Bars for Mowers and Reapers, of which the following is a specification.

My invention relates to certain improvements in mowing and reaping machines; and it consists in the peculiar construction and arrangement of the cutter-bar, which is made with an offset near the middle with the outer portion set in rear of the inner portion and in a higher plane, and also twisted about its longitudinal axis to bring its fingers on the same level with the fingers of the inner section, each part of the cutter-bar having an independent sickle and driving mechanism.

It also consists in the special arrangement of the cranks for operating these two sickles, as hereinafter fully described.

Figure 1 is a plan view of the mechanism. Fig. 2 is an edge view of the connection for the rear sickle. Fig. 3 is a view of these parts detached. Fig. 4 is a plan view of the offset of the cutter-bar. Fig. 5 is an edge view of the same. Fig. 6 is a front view of the cutter-bar connections, looking in the direction of the arrow in Fig. 1; and Fig. 7 is an end view of the cutter-bar.

D is the cutter-bar, which near its middle has an offset *j*, which throws the inner half of the same about three inches in advance of the outer half. The said bar curves upward at or near the center, which raises said cutter-bar the thickness of the bar upon which the sections are riveted, and the outer half of this bar is also slightly twisted (see Figs. 5 and 7) to bring the points of the guards of the outer half of the cutter-bar on a line with the points of the guard on the inner half of the same. On the bar as thus described I arrange two sickles *i* and *c*, for the use of which said cutter-bar is especially adapted, and these two sickles are connected with the double crank E of the driving mechanism by means of independent pitmen G H. At the

point *j*, where the offset of the cutter-bar is located, I fix an extension or double guard *a*, through which passes the outer end of the inner sickle *i* and the inner end of the outer sickle *c*. To connect the rear sickle *c* with the rear pitman H, I interpose a hooked extension-bar L, Figs. 2 and 3, which is held in place by a set-screw *k*, provided with a jam-nut.

In constructing the double crank E its two wrist portions are arranged at the same distance from the axial center and at quarter with each other, (see Fig. 6,) which serves to drive the sickles in such a manner that when one sickle is at minimum speed the other is at maximum, thus overcoming all inertia and preventing the possibility of a dead-center.

B is the inner shoe of the cutter-bar. On said shoe B are located two hinges *h h* at such a height and such a point that when the eye of the inner sickle *i* and the eye of the extension-bar L come on a line with the hinges it will permit the cutter-bar to be folded up, as shown in dotted lines in Fig. 6.

Having thus described my invention, what I claim as new is—

1. A cutter-bar having an offset about its middle, with the outer portion set to the rear and elevated above the plane of the inner portion and also twisted to throw its fingers down to the plane of the fingers of the inner portion, in combination with separate sickles reciprocating in the two sections of the cutter-bar, and an extension-bar and connecting-rods for driving the sickles, substantially as shown and described.

2. The combination, with the two sickles of a reaper or mower, of two pitman-rods and a double crank having its two wrist portions arranged at the same distance from the axial center and at a quarter with each other, substantially as and for the purpose described.

SETH M. CARTER.

Witnesses:

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