

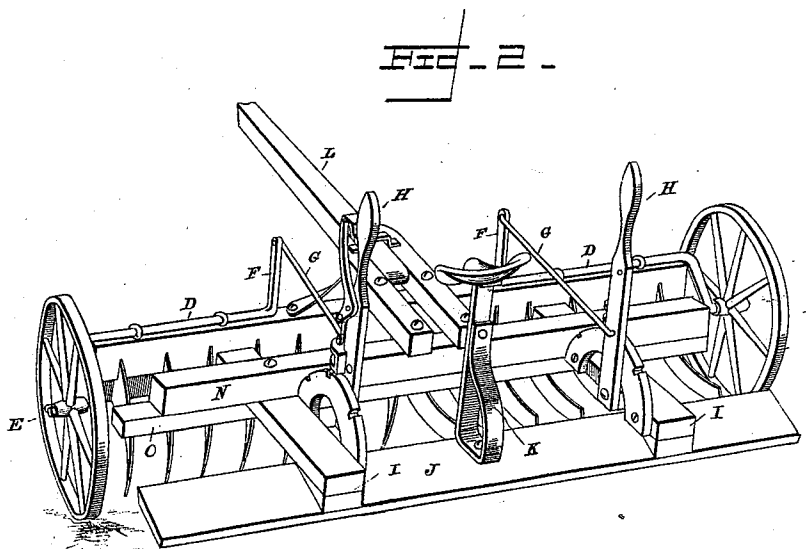
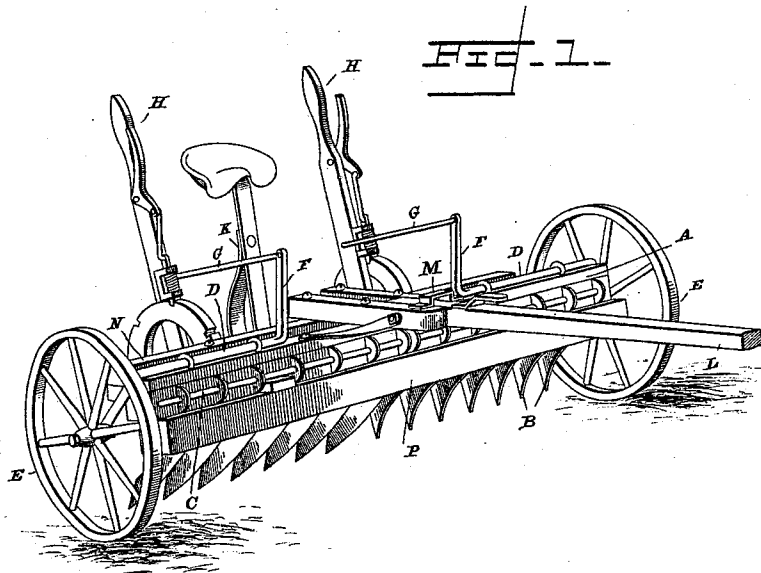
(No Model.)

2 Sheets—Sheet 1.

A. FISCUS.  
PULVERIZER.

No. 517,138.

Patented Mar. 27, 1894.



Witnesses

Edw. S. Duwall, Jr.  
Geo. L. Clark

Inventor

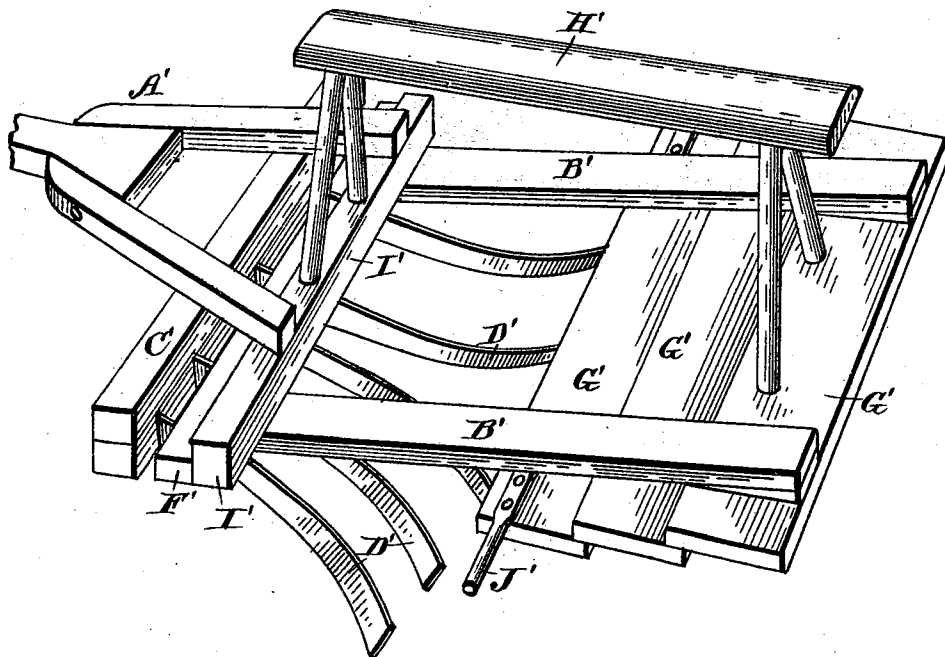
Adam Fiscus  
by Franklin B. Brock  
Attorney

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PULVERIZER.

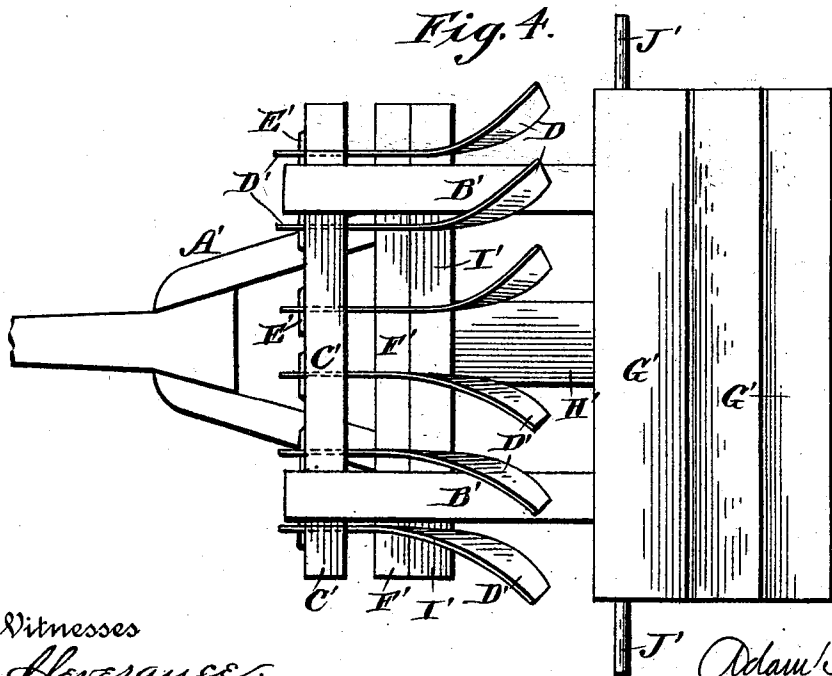
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*Fig. 3.*



*Fig. 4.*



Witnesses

*Everance*

*Spencer*

Inventor

*Adam Fiskus*  
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# UNITED STATES PATENT OFFICE.

ADAM FISCUS, OF FISCUS, IOWA.

## PULVERIZER.

SPECIFICATION forming part of Letters Patent No. 517,138, dated March 27, 1894.

Application filed March 18, 1893. Renewed February 27, 1894. Serial No. 501,737. (No model.)

*To all whom it may concern:*

Be it known that I, ADAM FISCUS, a citizen of the United States, residing at Fiscus, in the county of Audubon, State of Iowa, have  
5 invented certain new and useful Improvements in Pulverizers; and I do 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  
10 make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to harrows and pulverizers.

The improvements consist in the following construction of parts, the features of which will first be fully described and the points of novelty therein contained then set forth and  
20 claimed.

In the drawings—Figure 1 represents a perspective view looking at the front of a machine. Fig. 2 is also a perspective view looking at the machine from the rear.

25 A represents the head-bar of the machine. B are the teeth secured in transverse slits therein.

C is a transverse rod passing through holes in the front end of the teeth in front of the  
30 head A and serving to hold the teeth in place thereon. It will be noticed that the teeth or knives B are curved outwardly in both directions from the center.

D are the wheel-axes, one for each wheel,  
35 mounted upon the tooth-head bar A so as to oscillate thereon. The outer ends of these axes are cranked—upon which the main wheels E are journaled. The opposite or inner ends of the axes D are similarly provided  
40 with crank-arms F, to which are pivotally connected connecting-rods G, which lead to levers H journaled upon the rear of the machine—and provided with a rack and dog-mechanism—by means of which the pulverizer-frame is raised or lowered and adjustably  
45 set at any desired height from the ground.

I are two rearwardly extending frame-bars projecting from the head of the pulverizer, to the rear ends of which is secured a smoothing or crushing bar J. To these bars I are  
50 also secured the rack and lever mechanisms for adjusting the axes.

K is a spring-seat mounted directly upon the smoothing-bar J.

L is the pole, and M is a strap-piece upon 55 the frame crossing the inner end of the pole, for limiting the movement of the tongue.

N is a cross-bar uniting the bars I and the hounds of the tongue, and serving to strengthen and give greater rigidity to the machine. 60 O is another cross-bar secured to the under side of the bars I and slitted so as to guide and maintain the position of the knives or teeth B. Another cross-bar P is employed beneath the tooth or knife-head A, which is employed for a purpose similar to the bar O—the  
65 former acting to hold the teeth up to their position and the latter down to the same.

The knives or teeth of the machine thoroughly stir up and cultivate or harrow the soil, 70 while the succeeding dragging and crushing force of the drag-board completely comminutes the soil.

A series of drag-boards may be used if desired, presenting a series of upwardly inclined 75 planes toward the front of the machine.

In Figs. 3 and 4 are shown respectively a perspective and plan view of a modified form of my invention. In this modification I employ a series of smoothing-boards G' to one 80 of which I may secure axles or handles J'. The seat H' runs fore and aft and is attached in front to a cross-bar I' and at the rear to one of the smoothing-boards G'.

I claim—

85 The combination in a pulverizer or harrow, of the head-bar having the curved teeth mounted thereon, crank axes secured thereto, levers attached to the inner ends of the crank axes, a smoothing or crushing frame 90 in rear of the head-bar, frame bars secured to the head-bar and extending rearwardly to support the smoothing frame, a rack and lever mounted upon each of said rearwardly extending frame-bars, and links connecting 95 the said levers and the levers attached to the inner ends of the crank axes.

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

ADAM FISCUS.

Witnesses:

EUGENE W. FISCUS,  
FRANK FISCUS.