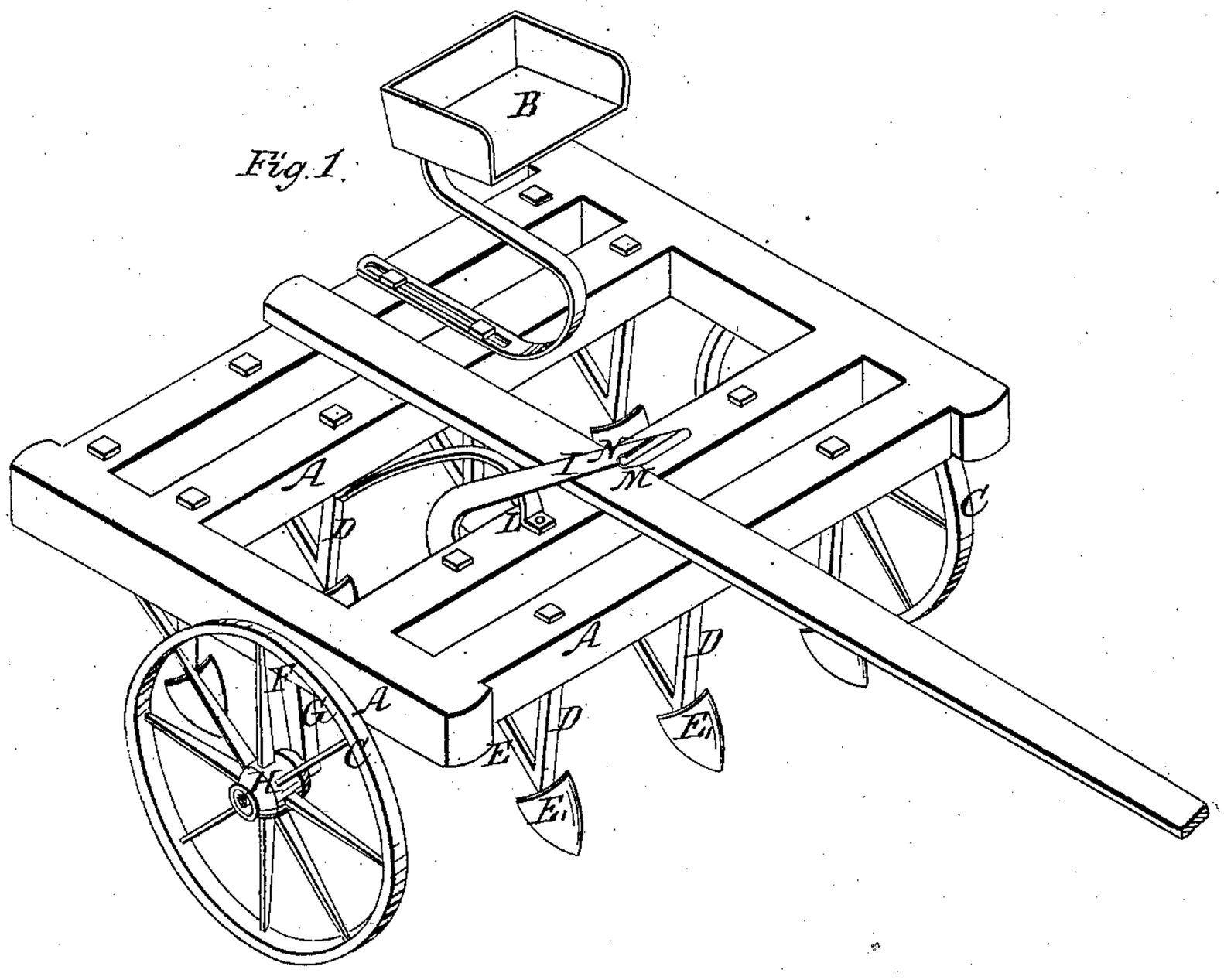
2 Sheets—Sheet 1

J. BERGEN.

Wheel-Cultivator.

No. 57,619. Patented Aug. 28, 1866

Fig. 1.



Witnesses:
J. Abbott
C. M. Palmer.

Inventor.
Jacob Bergen.

2 Sheets—Sheet 2

J. BERGEN.

Wheel-Cultivator.

No. 57,619. Patented Aug. 28, 1866

Fig. 2.

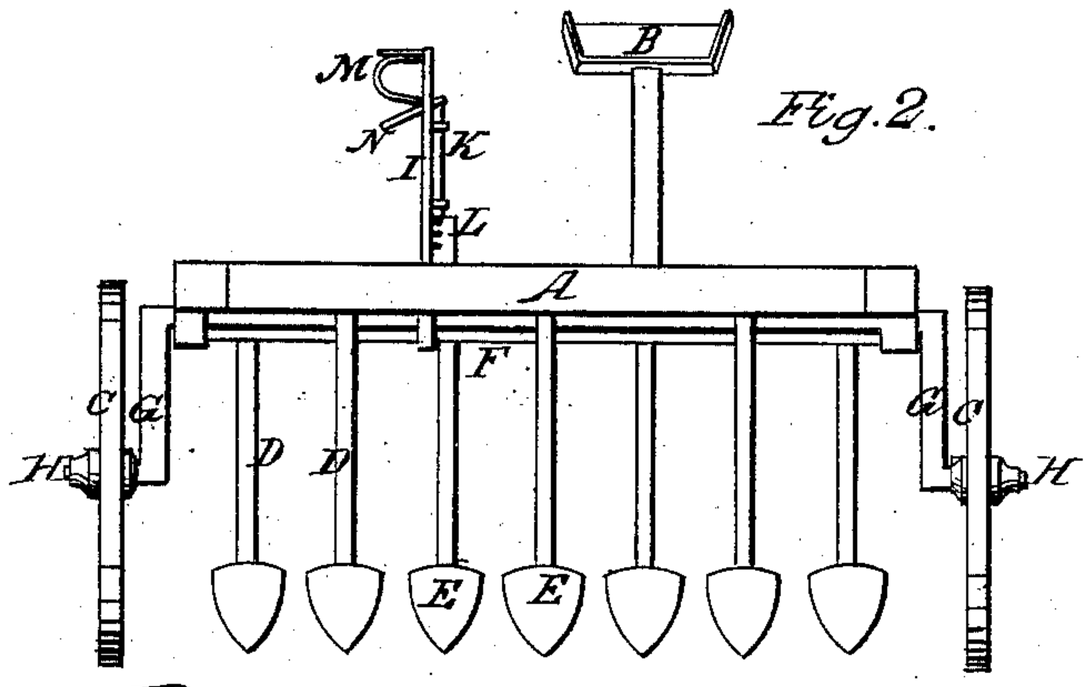


Fig. 3.

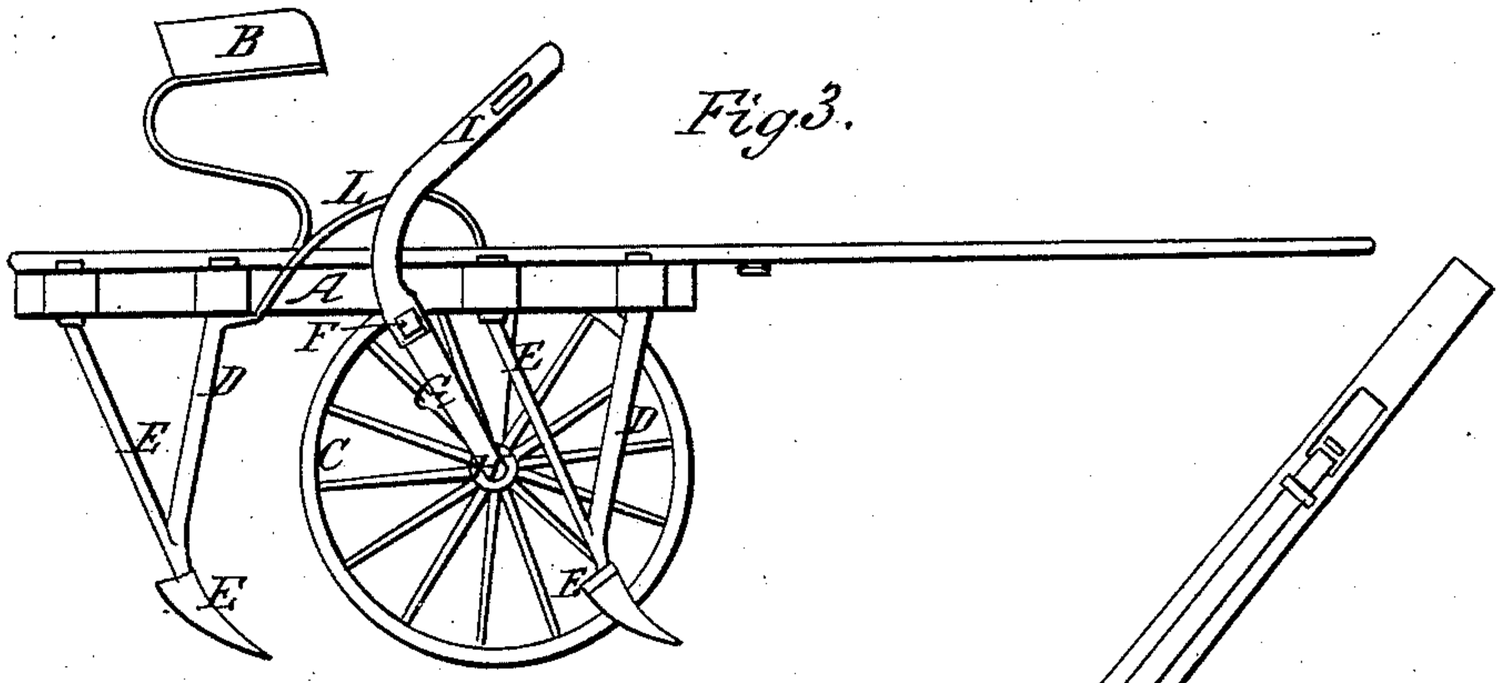
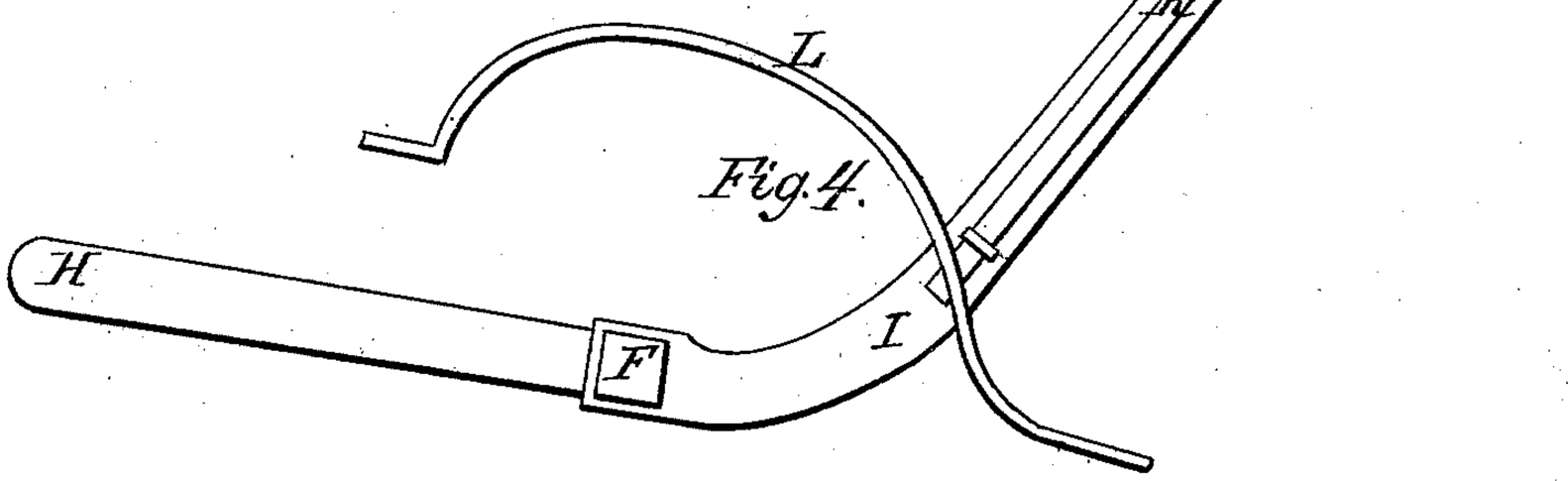


Fig. 4.



Witnesses.
J. Abbott.
C. W. Palmer.

Inventor.
Jacob Bergen.

UNITED STATES PATENT OFFICE.

JACOB BERGEN, OF PLAIN TOWNSHIP, STARK COUNTY, OHIO, ASSIGNOR TO HIMSELF AND PETER KAUFMAN.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **57,619**, dated August 28, 1866.

To all whom it may concern:

Be it known that I, JACOB BERGEN, of Plain Township, in the county of Stark and State of Ohio, have invented new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, of which—

Figure 1 is a perspective view. Fig. 2 is a front view. Fig. 3 is a cross-section, and Fig. 4 a view of the axle-lever and spring-catch detached from the machine itself.

The nature of my invention consists in the application of a bent axle to a rectangular frame of wood or other suitable material, to which the seat, pole, teeth, &c., are attached in the ordinary manner, and so arranged, in connection with a pair of wheels, as to cause by its movement an elevation or depression of the teeth or colters, so that they may either be raised clear of the ground, thus making the machine easy of transportation from place to place, or lowered to any required point, so as to give the teeth or colters any degree of penetration into the soil; and also in the application of a back brace to the tooth or colter standard, extending from the back of the teeth or colter to the frame, and thus making the colter-standard much stronger to resist any bending that might be caused from the colter striking any obstacle.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the frame, of wood or other material; B, the seat for the driver, arranged in the manner before specified; C, the wheels; D, the standards of the teeth or colters; E, the back braces, so arranged, in connection with the frame A and standard D, as to afford a firm brace to the colters E. F is the main part of the axle; G, the crank portion thereof, and H the axle for the wheels.

To the main axle F, I attach a lever, I, which has on one of its sides a sliding rod, K, which is pushed downward by the spring M, and has the handle N at its upper extremity. The lower extremity of the sliding rod K works into notches in the bent iron L, which is fastened to the frame at either extremity.

It will be seen that, by the moving of the lever I from one end of the arc L to the other through the action of the bent axle H G F G H, the points of the colter E will be raised from the ground or lowered, so as to penetrate to any required depth into the soil, the sliding rod K, in connection with the bent iron L, serving to maintain the machine in any required position.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The peculiar arrangement of the bent axle H G F G H, in connection with the frame A and the wheels G, substantially in the manner and for the purpose specified.

2. The peculiar arrangement of the back braces E and frame A, in the manner and for the purpose specified.

JACOB BERGEN.

Witnesses:

J. ABBOTT,

WM. ROBERTSON.