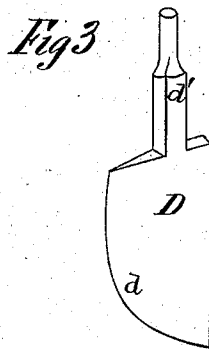
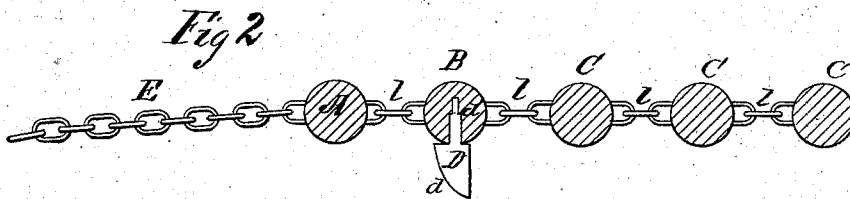
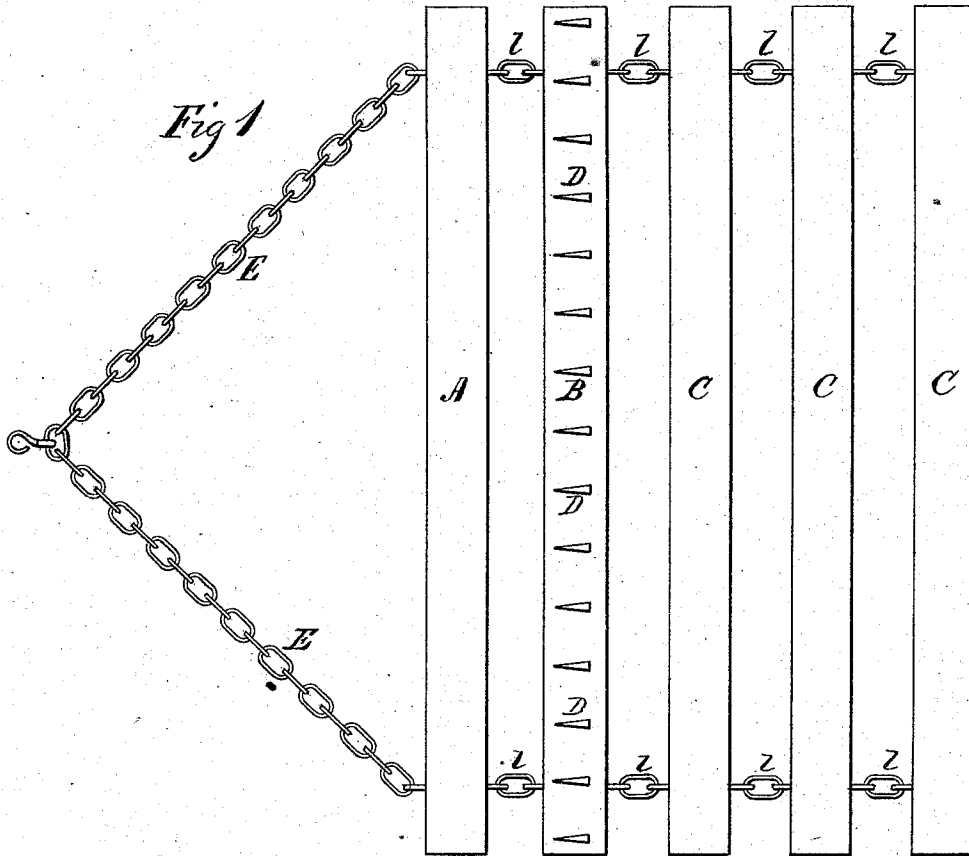


D. B. BARNET.
Clod-Crushers.

No. 158,233.

Patented Dec. 29, 1874.



WITNESSES

Mary J. Wiley.
Geo. E. Upham.

INVENTOR

Daniel B. Barnett
Chipman & Hosmer & Co

Attorneys

UNITED STATES PATENT OFFICE.

DANIEL B. BARNET, OF SALEM, INDIANA.

IMPROVEMENT IN CLOD-CRUSHERS.

Specification forming part of Letters Patent No. **158,233**, dated December 29, 1874; application filed July 11, 1874.

To all whom it may concern :

Be it known that I, DANIEL B. BARNET, of Salem, in the county of Washington and State of Indiana, have invented a new and valuable Improvement in Harrow and Clod-Crushers; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my harrow and clod crushers. Figs. 2 and 3 are sectional detail views of the same.

This invention has relation to combined harrows and crushers; and the nature of the invention consists in the novel construction and arrangement of several cylindrical clod-crushers, preceded by a cylindrical cutter-bearing crusher, having in front another cylindrical cutter, all being linked together and to each other, whereby clods are subjected to a leveling action before being subjected to the cutters, and a most thorough disintegration and breaking up of the soil is produced, and the crushers are permitted to adapt themselves to the inequalities of the soil, as will be hereinafter more fully explained.

In the annexed drawings, A designates the front cylindrical crusher of my improved implement, and B the cutter, bearing cylindrical crusher, immediately following it and connected with it and a number of similarly-shaped following crushers, C, by means of a link, *l*, and suitable hasps driven into each of the said crushers. D represents the teeth or cutters of

my improved harrow, consisting of a flat blade, having a straight back and a curved cutting-edge, *d*, and a rectangular shank, *d'*, which is received into a suitable mortise in the crusher B, and may be secured thereto by means of a suitable tap-nut. E represents a chain attached by both ends to the crusher A, to which the motive power is applied.

When my improved implement is actuated the front crusher is first brought in contact with clods upon the surface, leveling and partly crushing them; they are then subjected to the action of the cutter-blades, which not only separate them, but also rake them up, causing new surfaces to be presented to the action of the following crushers, causing the clods to be completely disintegrated and broken up, and rendering the soil mellow, and placing it in fit condition for the reception of seed.

I am well aware that linked crushers have been used for harrowing and mellowing soil by others than myself; hence I make no broad claim to such invention.

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

The cylindrical pulverizing crushers A C C C, cylindrical crusher B, having cutting-blades D, and draft-chains *l l*, combined as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DANIEL B. BARNET.

Witnesses:

JASPER N. RODMAN,
WILLIAM F. MUNAN.