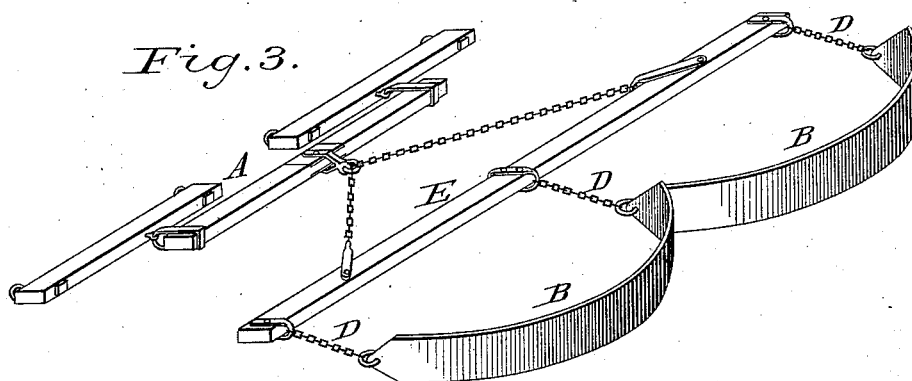
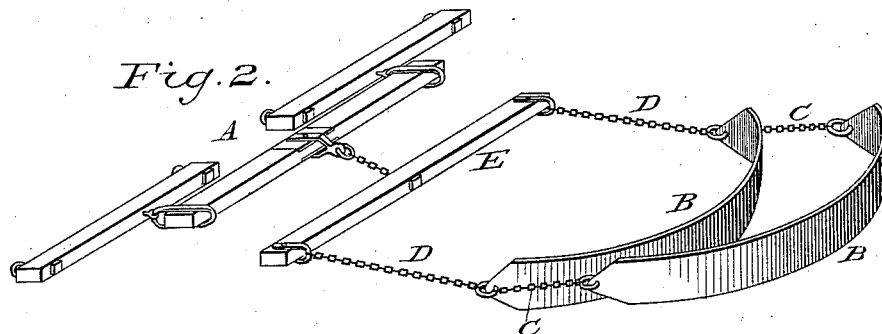
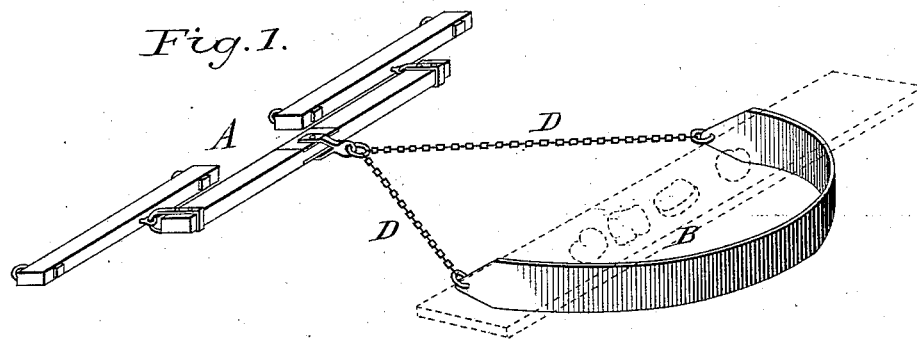


(No Model.)

A. C. KIRBY.
ROAD AND FIELD SCRAPER.

No. 304,737.

Patented Sept. 9, 1884.



Witnesses:
Chas. A. Erney,
John J. Lynch.

Inventor.
Adam C. Kirby
by Wm. H. King, his atty.

UNITED STATES PATENT OFFICE.

ADAM C. KIRBY, OF NEW LEBANON, ASSIGNOR OF ONE-HALF TO HENRY D. JONES, OF EAST CHATHAM, NEW YORK.

ROAD AND FIELD SCRAPER.

SPECIFICATION forming part of Letters Patent No. 304,737, dated September 9, 1884.

Application filed January 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, ADAM C. KIRBY, a citizen of the United States, residing in the town of New Lebanon, Columbia county, and State of New York, have invented a new and useful Improvement in Road and Field Scrapers, of which the following is a specification.

My invention relates to that class of road-scrappers which are usually drawn by animals, and which cannot be used to dig up the ground, as in the case of the triangular or pointed shaped scrapers heretofore used.

The objects of my invention are to employ such simple implements as will scratch up the loose ground and fill the sunken spots in a road or in a plowed field in the same manner as if done by means of a hoe, and also to produce an easy-drawing, inexpensive, and flexible apparatus. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the apparatus where only one semicircularly or elliptically curved piece of metal is used. Fig. 2 is a perspective view of the apparatus where two semicircularly or elliptically curved pieces of metal are used, the one curved piece of metal being placed behind the other. Fig. 3 is a perspective view of the apparatus where two semicircularly or elliptically curved pieces of metal are used, the one curved piece of metal being placed alongside of the other.

Similar letters indicate like parts in the several views.

In the drawings, A represents a whiffletree or any appliance for drawing the apparatus; B, the semicircularly or elliptically curved piece of metal; C, adjustable chains or rods, connecting the two curved pieces of metal; D, adjustable rods or chains connecting the whiffletree or dragging mechanism to the curved pieces of metal; E, a rod or stick of timber placed between and attached to the extreme ends of the curved pieces. Curved pieces of wood may be used for said curved pieces of metal, and I do not confine myself, therefore, to the use of metal only; but by reason of its greater weight I prefer to use metal.

I construct and operate my invention in the following manner: I use a piece of metal or of wood bent, or pieces of wood built up, in the form of a semicircle or an ellipse. To the ends of such semicircularly or elliptically curved pieces of metal or wood or built-up pieces of

wood I fasten in any manner a chain or rope or a rod, which chain, rope, or rod is attached to a whiffletree or the dragging mechanism. If I desire greater weight, I place iron or wood across the curved pieces of metal or wood. I also construct my invention by placing behind the first curved piece of metal or wood, or built-up pieces of wood, by means of chains or ropes or rods, or a combination of a chain and a rod, a second like curved piece of wood or metal, or built-up pieces of wood, and attaching the same to said first curved piece, or to the rod or stick of timber E, or to the dragging apparatus. The first may be of metal, and the second of wood, or vice versa. As many curved pieces of wood or metal, or built-up pieces of wood, may be added in the rear of the first curved piece as may be desired, and attached to either said first curved piece of wood or metal, or to said drawing mechanism. When greater weight is desired, planking may be placed on both curved pieces, and stone or any material placed on such plank. I sometimes place curved pieces, as aforesaid, side by side. In the latter case I attach the dragging mechanism at the outside ends of the curved pieces, and join the two inner ends thereof together, or by chains or rods to the rod or stick of timber, or to the dragging apparatus. A rod or stick of timber can be used extending between and attached at the extreme ends of the curved pieces, and the dragging mechanism attached to such rod or stick of timber.

Instead of the rod or stick of timber, a low sulky may be used, and the curved pieces of metal attached to said sulky.

Series of curved pieces of metal or wood, or built-up pieces of wood, may be placed in the rear of and attached by chains, ropes, or rods, or a combination of the two, to the first line of curved pieces.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of one or more scraper-bars formed upon the curve of a circle or ellipse, and rods or chains connected thereto at or near the ends thereof, and draft mechanism, substantially as shown and described.

ADAM C. KIRBY.

Witnesses:

ELIHU KIRBY,
H. SANFORD WUND.