(No Model.)

H. M. D. L. BABCOX.

SULKY DIRT SCRAPER.

No. 277,826. Patented May 15, 1883.

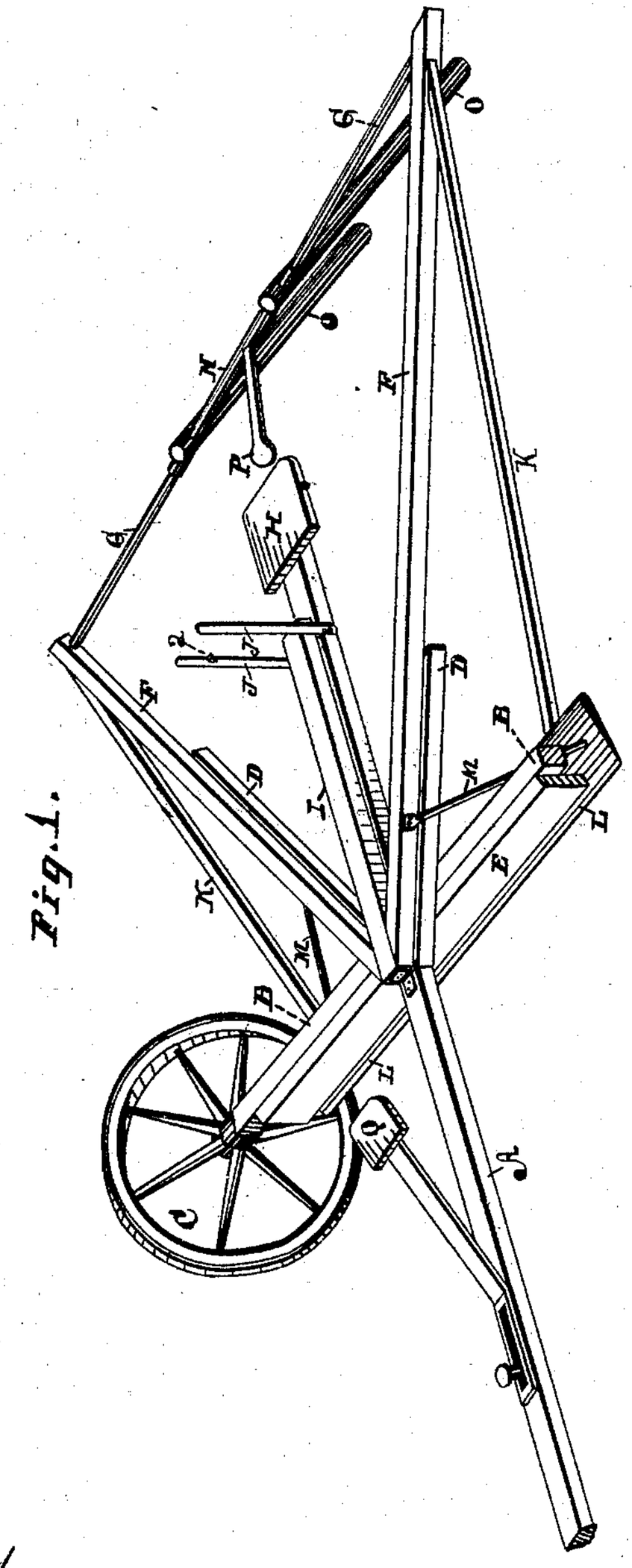

Fig. 1.

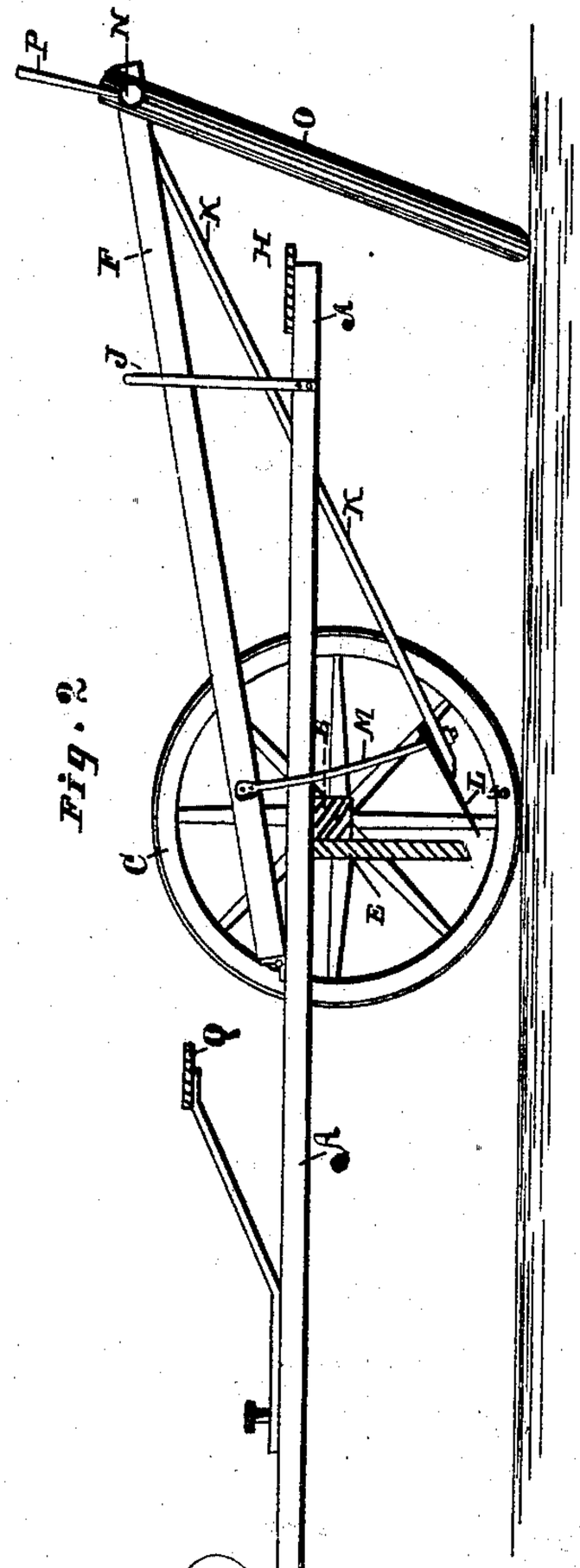

Fig. 2.

Witnesses
Geo. H. Strong.
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Inventor
Hiram M. D. L. Babcox
By Dewey & Co Attys

UNITED STATES PATENT OFFICE.

HIRAM M. D. L. BABCOX, OF MODESTO, CALIFORNIA.

SULKY DIRT-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 277,826, dated May 15, 1883.

Application filed September 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, HIRAM M. D. L. BABCOX, of Modesto, county of Stanislaus, State of California, have invented an Improved Sulky Dirt-Scraper; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a dirt-scraper, which, by reason of being adapted to run on two wheels, I call a "sulky" dirt-scraper.

It consists in a frame, to the axle of which is secured a downwardly-projecting board or plank, under the lower edge of which an inclined blade or cutter is adapted to be pushed forward or withdrawn by the action of a supplementary frame pivoted above, and swinging studs, all of which will hereinafter more fully appear, reference being made to the accompanying drawings.

Figure 1 is a perspective view of my scraper. Fig. 2 is a longitudinal vertical section of the same.

Let A represent the draft-pole, extending behind the axle B, to which it is attached. C C are the wheels, and D the hounds or braces attached to the pole and axle.

To the axle B, in front thereof, I attach the plate, plank, or board E. This extends downwardly at a slightly-backward inclination nearly to the ground—in ordinary practice, for example, to within six inches thereof. It extends across the front of the axle nearly the whole width. To the top of the pole, a little forward of the axle, is hinged or pivoted a supplementary frame, F. (Here shown triangular in shape, though this need not be so of necessity.) This frame is so hinged as to be adapted to be raised from the rear about its hinged apex as a center. Across the rear end of the frame F is a brace or shaft, G. The pole A does not extend quite to this shaft, and is provided on its rear end with a platform, H. The frame F has a central piece, I, which extends rearward nearly to the platform and lies upon the pole, its end being between two standards, J J, which are attached on each side of the pole. In the upper part of these standards are spring-catches *a a*, which allow the piece I to pass up and spring out when it has passed, so as to prevent it from falling down. It thus locks the frame F when its rear end is raised. Any device or means for releasing the spring-catches *a a*, so as to drop the frame, may be employed.

To the rear ends of the frame F, on the under side, are secured strips or pieces K K, which extend forward and are downwardly inclined. Their ends extend under the lower edge of the plank or board E, and they have secured to them a cutter or blade, L, which is suspended between the lower edge of the plank E and the ground. The knife containing the downward inclination of the strips K, to which it is attached, is also inclined downwardly, and the lower edge of the plank E is preferably beveled in a like direction. The strips K K are further secured to the frame F by the side braces, M, attached to the frame above. Upon the brace or shaft G, about its middle, is journaled a sleeve, N, to which are secured the studs O O. These are preferably made of gas-pipe, and are long enough to raise the frame F sufficiently, as hereinafter explained. P is a lever attached to the sleeves N, by the operation of which the studs O O may be swung around the brace G over from the rear to the front.

Q represents the driver's seat. It is secured to the pole A by any connection or standard which will allow it to be moved farther forward or back thereon. I have here shown a slot in the end of the support and a bolt.

The operation of this device is as follows: It is intended to be drawn by horses attached to the pole A. The frame F lies horizontal, in which position the cutter or blade L extends under the plank E, and is ready to be embedded in the earth. The studs O O extend out behind and drag along the ground. A man stands on the platform H, his weight being balanced by the driver, on the forward portion of the pole. The operator, by stepping upon the brace G, forces the rear end of the frame F down, and causes the blade or cutter L to press into the earth. When the machine is advanced the dirt is carried forward by the plank or carrier E, and when the point is reached where it is desired to drop and scrape it, the operator, by moving the lever P, throws the studs O O over forward with their ends on the ground. The machine, advancing still, causes the frame F to rise by reason of the studs assuming the perpendicular. The frame F, in rising, with-

draws its blade L from under the carrier, and the dirt is spread by the carrier between its lower edge and the ground. The frame F, when raised, is locked in the standards, and remains until released, when the same operation is repeated. The dirt may be thus carried, dumped, and spread at intervals and places desired.

By having the driver's seat adjustable I can balance the weight with better effect in front of and behind the axle, and thus am enabled to use two wheels.

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

1. In a sulky-scraper, the front board or carrier, E, in combination with the hinged or jointed frame F, having braces G and K K, and a blade or cutter, L, and the swinging studs O O, substantially as and for the purpose herein described.

2. In a sulky-scraper having a pole, A, axle B, and wheels C, the front board or carrier, E, in combination with the hinged or jointed frame F, having a central piece, I, adapted to be secured in the standards J, and provided with braces G K K, and a cutter or blade, L, and the swinging studs O O, substantially as herein described.

3. The combination and arrangement, in a sulky-scraper, of the adjustable seat Q, the pole A, and the platform H, substantially as and for the purpose herein described.

In witness whereof I hereunto set my hand.

HIRAM M. D. L. BABCOX.

Witnesses:

WM. F. BOOTH,

FRANK A. BROOKS.