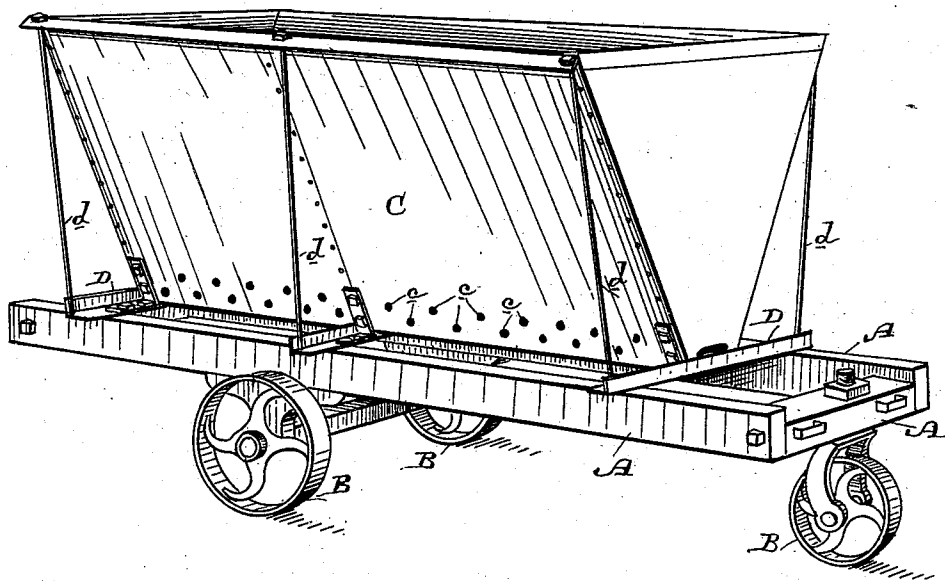


(No Model.)

J. PORTEOUS.
VINEYARD BRUSH BURNER.

No. 466,256.

Patented Dec. 29, 1891.



Witnesses,
J. A. Bayless

Inventor
James Porteous
By Duveyst Co. atty

UNITED STATES PATENT OFFICE.

JAMES PORTEOUS, OF FRESNO, CALIFORNIA.

VINEYARD-BRUSH BURNER.

SPECIFICATION forming part of Letters Patent No. 466,256, dated December 29, 1891.

Application filed January 20, 1891. Serial No. 378,476. (No model.)

To all whom it may concern:

Be it known that I, JAMES PORTEOUS, a citizen of the United States, residing at Fresno, Fresno county, State of California, have invented an Improvement in Vineyard-Brush Burners; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to the general class of farming implements for vineyards, and especially to the class of devices for disposing of the brush in vineyards.

My invention consists in the novel construction of the brush-burner hereinafter fully described, and specifically pointed out in the claims.

The brush in vineyards consists of the numerous and extensive cuttings which are made every year. This brush is somewhat difficult to dispose of, the usual practice being to rake it together in piles and either carry it off or burn it. It cannot be left on the ground as brush, because it is in the way of the cultivating implements.

The object of my invention is to provide a simple and effective implement or device adapted specially by its construction and dimensions to be used with advantage in a vineyard.

Referring to the accompanying drawings for a more complete explanation of my invention, the figure is a perspective view of my implement.

A is a frame of an open-work character and consisting of two side bars and two end bars, preferably made of wood and properly connected. This frame in some cases is moved by dragging it along as a sled and in others by being mounted on wheels B, there being three of said wheels, two upon an axle mounted transversely of the frame and one in the front of the frame and mounted as a swivel-wheel, so that the truck may be readily guided and turned.

C is a furnace consisting of a vessel usually made of sheet metal. This furnace is made downwardly tapering as to its sides, whereby its top is very wide, while its bottom is very narrow. Apertures *c* in suitable numbers are made through the lower portion of the sides of the furnace. Said apertures may be

simple holes or the spaces formed by grating, as may be desired. This furnace is carried upon the frame A and is readily removable therefrom. To give it stability it has secured to its base the cross-bars D, from the ends of which extend upwardly brace-rods *d* to the top of the furnace. These cross-bars D rest upon the sides of the frame A.

The whole device is made narrow enough to work easily in and to travel through the rows of the vineyard. The brush is picked up and thrown into the furnace, and as it is burned up the air-holes below furnish ventilation, so that a thorough combustion takes place, and said holes provide for a discharge of the ashes, which serve to enrich the ground.

The novelty in the implement and the principal portion of its utility lie in the shape of the furnace. It is made with a wide top, so that the sticks thrown into it will not fall out. This is of great importance, not only in saving trouble in picking them up again, but more especially in preventing charred sticks from falling upon the ground. These charred sticks will not rot and will be continually in the way until removed; but by having the wide open top there is no danger of the sticks falling out. Now, while it is necessary to have a wide top, it is also necessary to have a bottom sufficiently narrow to lie well within the space between the side bars of the frame A. If this were not the case, the hot ashes dropping through the holes at the bottom would fall upon the truck-frame and injure it; but by being narrow, as shown, there is no danger of this, as the ashes will drop through between the side bars of the frame and clear of them, so that no injury can result to the frame.

The cross-bars of the furnace furnish the proper stability for the otherwise unstable furnace, rendering it possible to carry it safely upon the frame. Being readily removable from the frame, the latter can be used for various truck purposes whenever necessary.

Another object in making the furnace tapering is to remove its heated walls as far as possible from the vines on each side, thus avoiding any liability of injuring them. This object is gained by reason of the narrowness of the furnace. Where brush is burned ordi-

narilly between the rows, it is the practice to cover the vines to protect them; but with my burner this is unnecessary.

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

10 1. A vineyard-brush burner consisting of a movable supporting-frame with an open center and a furnace carried upon said frame and having a perforated lower portion which is sufficiently narrow to lie between the vertical planes of the sides of the open space or center of the frame, substantially as and for the purpose herein described.

15 2. A vineyard-brush burner consisting of a movable frame having an open center and a furnace mounted upon said frame, said furnace having a wide top and downwardly tapering toward its bottom, the lower portion 20 being perforated and lying between the vertical planes of the sides of the open center of the frame, substantially as and for the purpose herein described.

25 3. A vineyard-brush burner consisting of a movable frame with an open center, a downwardly-tapering furnace mounted upon said frame, the lower portion of which is perforated and lies between the vertical planes of the sides of the open center of the frame, and 30 the cross-bars on the base of said furnace, resting upon the sides of the frame, substantially as herein described.

35 4. A vineyard-brush burner consisting of a movable frame with an open center, a downwardly-tapering furnace having its lower portion perforated and lying between the vertical planes of the sides of the open center of

the frame, the cross-bars on the base of the furnace, resting upon the sides of the frame, and the vertical brace-rods, substantially as 40 herein described.

5. A vineyard-brush burner consisting of the wheeled truck-frame having an open center, and the downwardly-tapering furnace mounted upon said frame and having its 45 lower portion perforated and lying between the vertical planes of the sides of the open center of the frame, substantially as herein described.

6. A vineyard-brush burner consisting of 50 the wheeled truck-frame with an open center, the downwardly-tapering furnace, the lower portion of which is perforated and lies between the vertical planes of the sides of the open center of the frame, and the cross-bars 55 secured to the base of the furnace and resting on the sides of the frame, substantially as herein described.

7. A vineyard-brush burner consisting of 60 the wheeled frame with an open center, the downwardly-tapering furnace, the lower portion of which is perforated and lies between the vertical planes of the sides of the open center of the frame, the cross-bars secured to the base of the furnace and resting on the 65 sides of the frame, and the vertical brace-rods, substantially as herein described.

In witness whereof I have hereunto set my hand.

JAMES PORTEOUS.

Witnesses:

S. H. NOURSE,
J. A. BAYLESS.