

No. 787,276.

PATENTED APR. 11, 1905.

A. B. CARTER.  
BOLL WEEVIL EXTERMINATOR.  
APPLICATION FILED APR. 20, 1904.

Fig. 1.

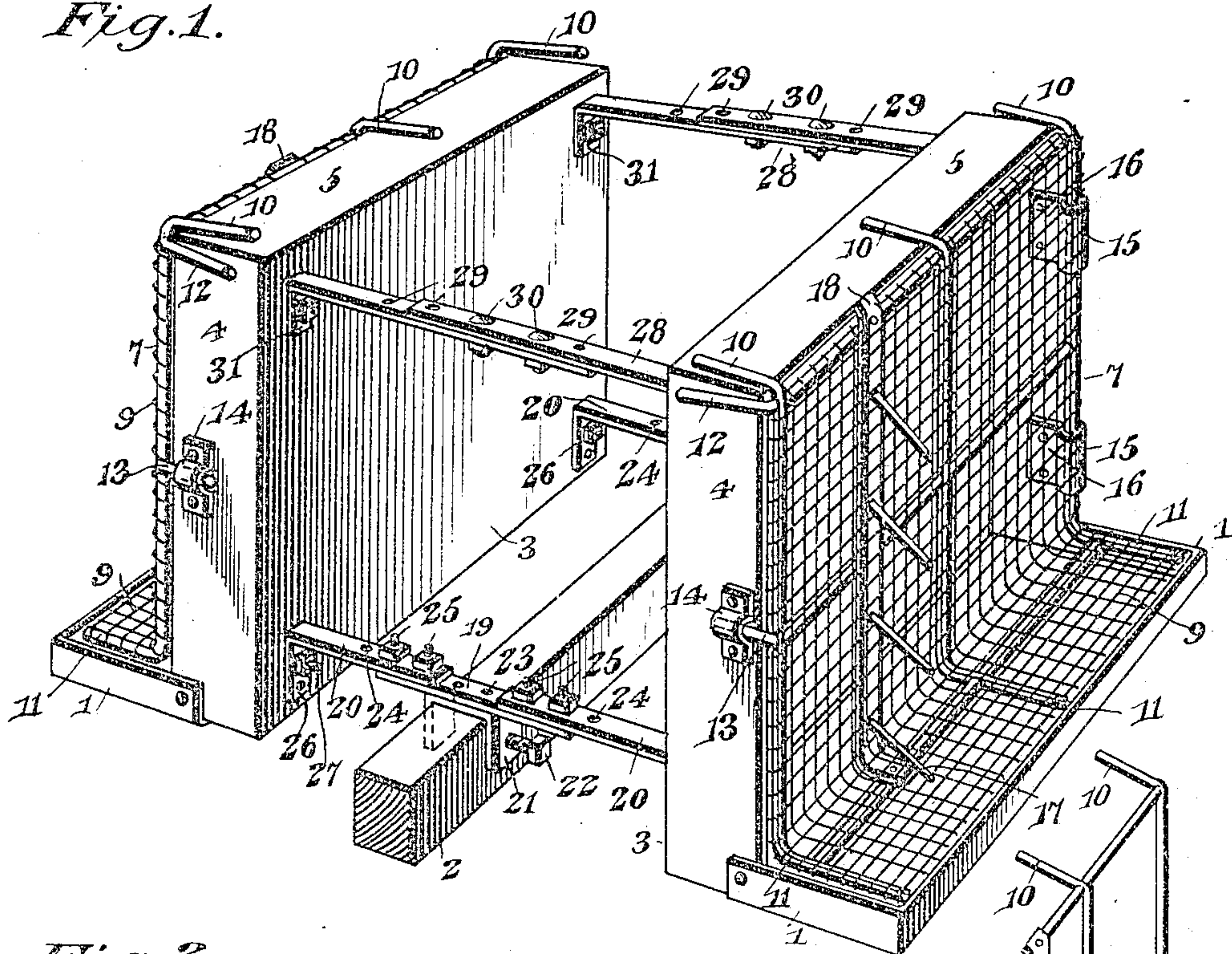


Fig. 2.

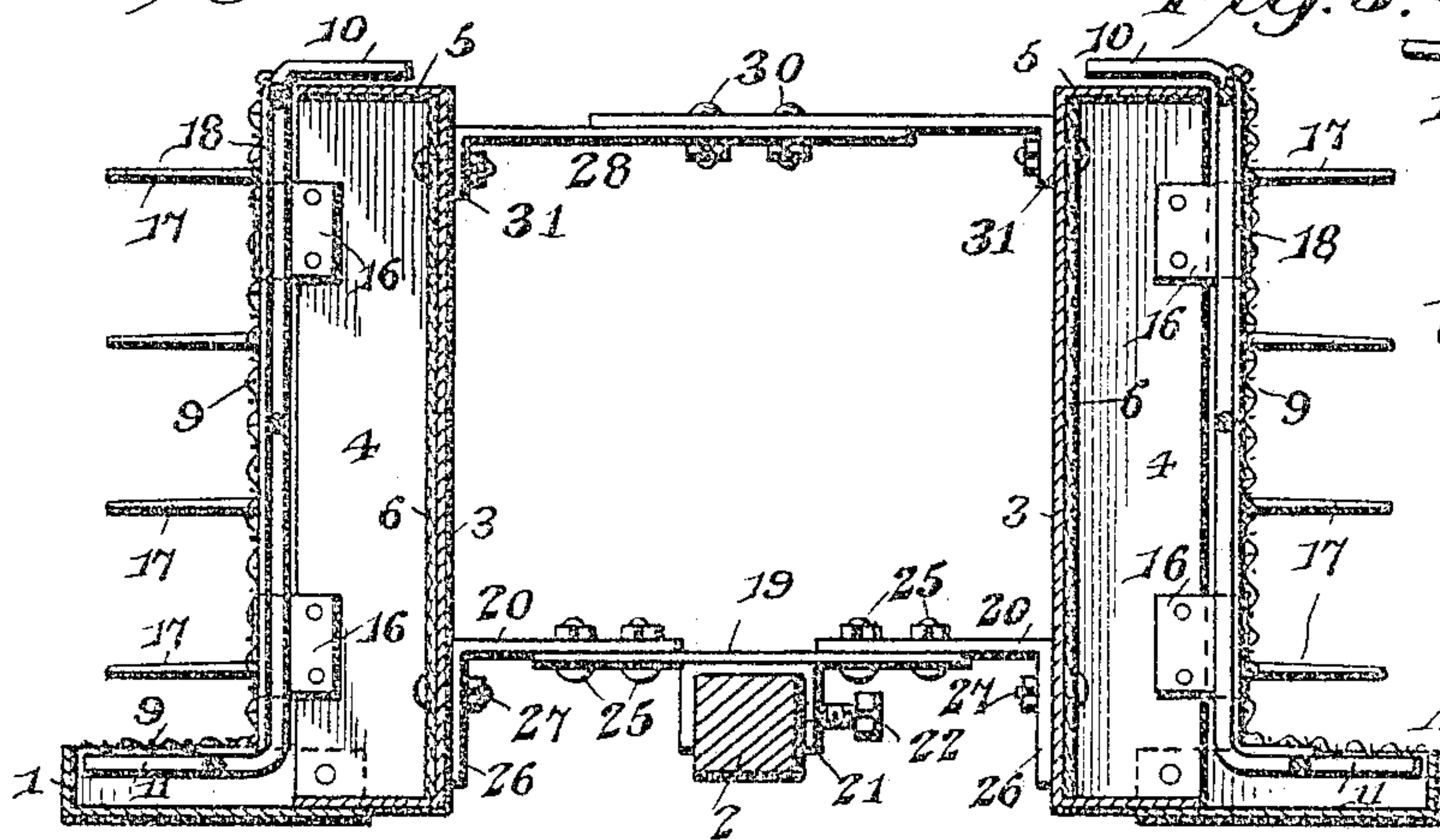
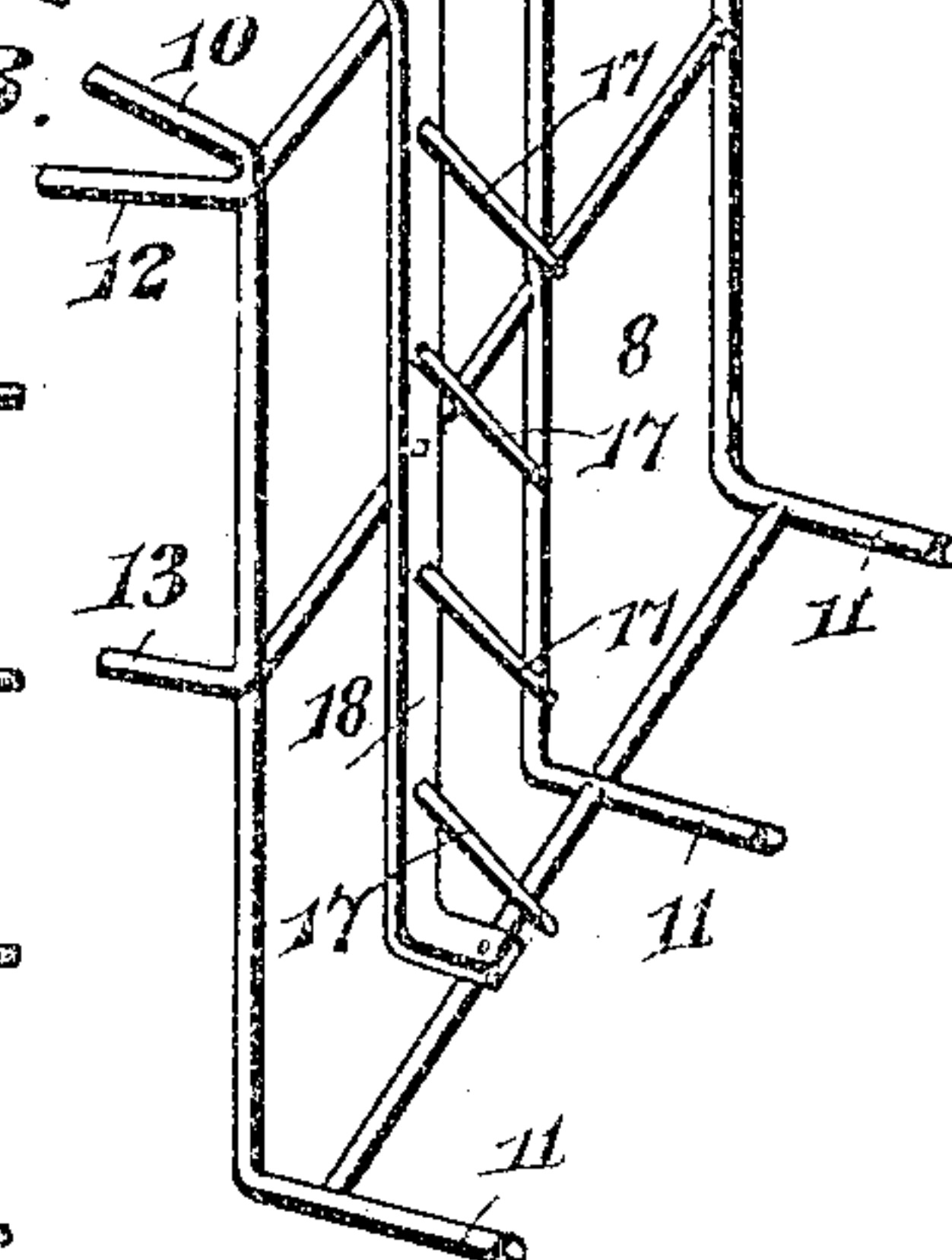


Fig. 3.



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## BOLL-WEEVIL EXTERMINATOR.

SPECIFICATION forming part of Letters Patent No. 787,276, dated April 11, 1905.

Application filed April 20, 1904. Serial No. 204,076.

*To all whom it may concern:*

Be it known that I, ALBERT BEVERLY CARTER, a citizen of the United States, residing at Hazlehurst, in the county of Copiah and State of Mississippi, have invented a new and useful Boll-Weevil Exterminator, of which the following is a specification.

The invention relates to improvements in boll-weevil exterminators.

The object of the present invention is to improve the construction of boll-weevil exterminators and to provide a simple and comparatively inexpensive one of great strength and durability adapted to be readily mounted on the beam of a plow whereby boll-weevils may be killed at the same time the cotton is cultivated.

A further object of the invention is to provide a boll-weevil exterminator of this character capable of vertical and lateral adjustment to adapt it to the width of the rows and the size of the plants.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a boll-weevil exterminator constructed in accordance with this invention and illustrating the manner of mounting the same on a plow-beam. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a detail perspective view illustrating the construction of the skeleton frames of the doors.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 1 designate a pair of troughs or receptacles constructed of sheet metal or other suitable material and designed to be arranged at opposite sides of a plow-beam 2, as illustrated in Fig. 1 of the drawings. Each trough or receptacle is provided at the back with an up-

right extension 3, consisting of a vertical rear wall and side and top walls 4 and 5 extending from the rear wall and arranged at right-angles to the same, as clearly shown in Fig. 1 of the drawings. This extension is provided with a lining 6, of canvas or other suitable absorbent material, adapted to be coated with coal-tar, crude oil, or other substance which will cause boll-weevils to adhere to it or destroy the same. The trough or receptacle is designed to contain a quantity of oil or other suitable liquid for destroying the boll-weevils falling into it.

When the troughs or receptacles are located at opposite sides of a plow-beam, as illustrated in Fig. 1 of the drawings, they will operate between the rows and engage two rows of plants; but they are also adapted for use on a straddle-row cultivator and when used on the same will be reversed to face inwardly for engaging a row of plants at opposite sides thereof. In order to prevent the plants from brushing against the lining and to assist in retaining the boll-weevils in the device, each trough or receptacle is provided with a hinged door 7, consisting of upright and horizontal portions and composed of a skeleton frame 8 and a covering 9, of coarse wire-gauze or woven-wire fabric, forming screens and having openings two or three inches square to permit the boll-weevils to readily pass through the door. The skeleton frame 8 is provided with a series of upright rods having their upper and lower terminals bent approximately horizontally in opposite directions to provide upper and lower arms 10 and 11. The upper arms project over the top of the extension 3 of the trough, and the lower arms extend over the latter and support the horizontal portion of the wire-gauze covering. The upright rods are connected by horizontal rods, which are extended at the upper portion of the door to provide arms 12 and 13, which are arranged on the exterior of the adjacent side of the extension 3. The arm 13 extends into and frictionally engages a loop or keeper 14 for holding the door closed. The upright rod at the opposite edge of the door passes through eyes 15 of leaves or plates 16, secured to the inner face of the adjacent side of the extension 3.



By this construction the door is hinged and is adapted to swing open and close. Each door is provided with a vertical series of approximately horizontally - disposed fingers 17, mounted on a bar or strip 18 and extending forwardly at an acute angle to the front portion of the door and adapted to run between the branches of the cotton-plants, whereby the boll-weevils are dislodged therefrom and caused to fly into the extension of the trough or receptacle or drop into the latter. Any number of these projections or fingers may be provided to secure the desired result.

The troughs or receptacles are mounted on the beam 2 by means of front and rear extensible supports, consisting of intermediate and side sections 19 and 20, the intermediate section being provided with a depending clamp 21, having sides or jaws spaced apart to receive the beam 2. One of the sides or jaws is provided with an adjustable device, preferably consisting of a clamping-screw 22, by means of which the support is firmly secured to the beam 2. The adjacent portions of the intermediate and end sections are overlapped and provided with perforations 23 and 24, adapted to receive bolts 25 or other suitable fastening devices, whereby the sections are adjustably secured together. Any number of perforations may be provided, and any other means may be employed for adjustably connecting the sections. By this construction the troughs or receptacles may be spaced different distances apart to adapt them to the width of the rows. The outer sections 20 are provided at their outer ends with depending arms 26, which are provided with a plurality of perforations adapted to receive bolts 27, whereby the troughs or receptacles are adjustably connected with the supports and are adapted to be raised and lowered.

The extensions of the troughs or receptacles are spaced apart at the top by adjustable front and rear braces 28, composed of two sections having overlapped inner portions provided with perforations 29 and secured together by bolts 30 or other suitable fastening means. The outer ends of the sections of the upper braces are bent at an angle to form arms 31, which are secured to the extensions by bolts or other suitable fastening devices.

The device besides being adapted for destroying boll-weevils, may also be advantageously employed for destroying insects of other plants.

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

1. A device of the class described, having a trough or receptacle provided at the back with an extension having projecting walls terminating short of the front of the trough or receptacle, substantially as described.

2. A device of the class described, comprising a trough or receptacle having an upright

extension and provided thereon with a lining of absorbent material, substantially as described.

3. A device of the class described, having a trough or receptacle provided at the back with an extension having projecting walls terminating short of the front of the trough or receptacle, said extension being also provided with a lining of absorbent material, substantially as described.

4. A device of the class described, comprising a receptacle having a substantially vertical extension, said extension being provided with projecting walls, and an upright door covering the extension and having apertures for the entrance of insects, substantially as described.

5. A device of the class described, comprising a receptacle having a substantially vertical portion open at the front, and a door covering the open front and provided with apertures for the passage of insects, substantially as described.

6. A device of the class described, comprising a receptacle having a substantially vertical portion open at the front, and a closure or cover for the front having apertures for the passage of insects and provided with means for dislodging the same from plants, substantially as described.

7. A device of the class described, comprising a receptacle having a substantially vertical portion open at the front, and a closure or cover for the front having apertures for the passage of insects, and provided with projections or fingers for dislodging insects from the plants, substantially as described.

8. A device of the class described, comprising a receptacle having a substantially vertical portion open at the front, and a closure or cover for the front having apertures for the passage of insects, and provided with projections or fingers extending forwardly at an acute angle, substantially as described.

9. A device of the class described, comprising a receptacle having horizontal and upright portions, and a door provided with horizontal and upright portions and having apertures for the passage of insects, substantially as described.

10. A device of the class described, comprising a receptacle having upright and horizontal portions, and a door mounted on the receptacle, and composed of a skeleton frame provided at its top and bottom with arms extending in opposite directions, the upper arms being arranged above the upright portion of the receptacle, and the lower arms extending over the horizontal portion of the same, and a covering supported by the frame and provided with openings for the passage of insects, substantially as described.

11. A device of the class described, comprising a receptacle having an upright portion, a door having openings and provided



with projecting arms arranged on the exterior of the walls of the receptacle, and a keeper receiving one of the arms, substantially as described.

12. A device of the class described, comprising a pair of receptacles having upright and horizontal portions, screens covering the upright and horizontal portions of the receptacles, and supporting means connecting the receptacles, substantially as described.

13. A device of the class described, comprising a pair of receptacles, and extensible supporting means adjustably connected to the receptacles, whereby the same are adapted to be raised and lowered and adjusted toward and from each other, substantially as described.

14. A device of the class described, comprising a pair of receptacles, and supporting means connecting the receptacles and provided with clamping means for engaging a plow-beam, substantially as described.

15. A device of the class described, comprising a pair of receptacles, and an adjustable support connected to and spacing the re-

ceptacles and provided with a clamp for engaging a plow or cultivator, substantially as described. 25

16. In a device of the class described, comprising a pair of receptacles, and supports connecting the receptacles at the bottom thereof, and composed of adjustable sections, said supports being provided with depending clamps arranged to engage the beam of a plow or cultivator, substantially as described. 30

17. A device of the class described, comprising a pair of receptacles, an adjustable support connecting the receptacles at the bottom and provided with a clamp for engaging the beam of a cultivator, and an adjustable brace connecting the upper portions of the receptacles, substantially as described. 35 40

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALBERT BEVERLY CARTER.

Witnesses:

J. L. ARD,

A. L. WEEKS.