

F. M. HUMPHREY.

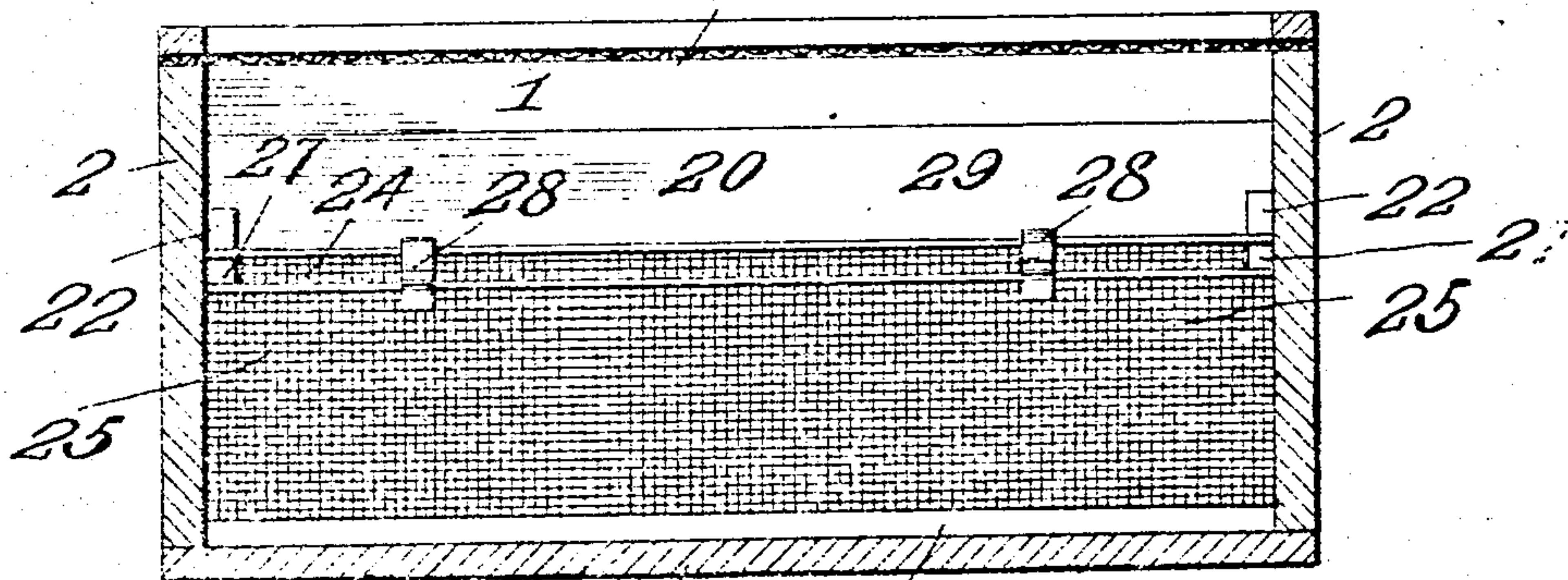
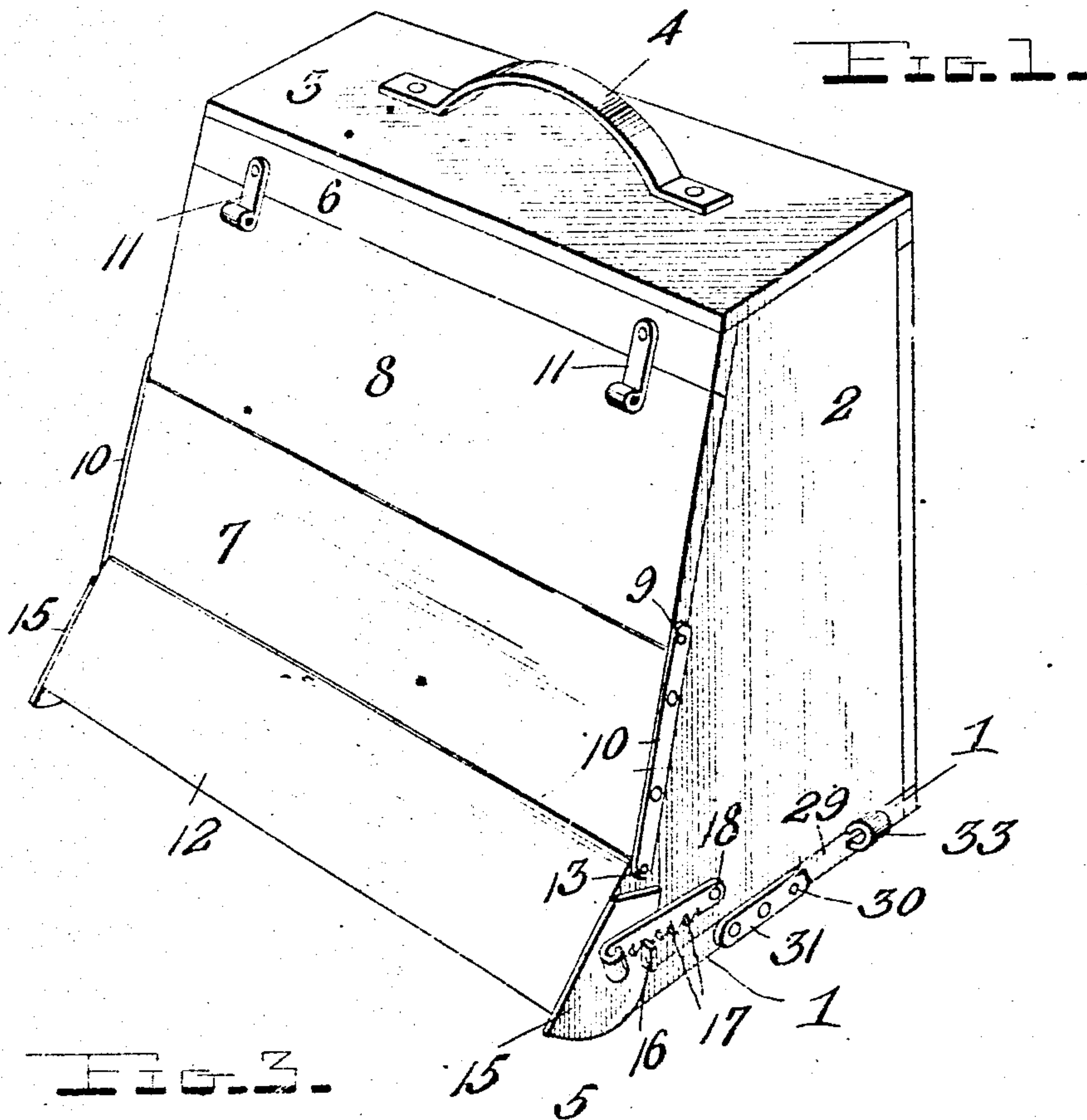
FLY TRAP.

APPLICATION FILED AUG. 28, 1909.

Patented May 31, 1910.

2 SHEETS—SHEET 1.

959,747.



WITNESSES

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E. M. Ricketts

INVENTOR

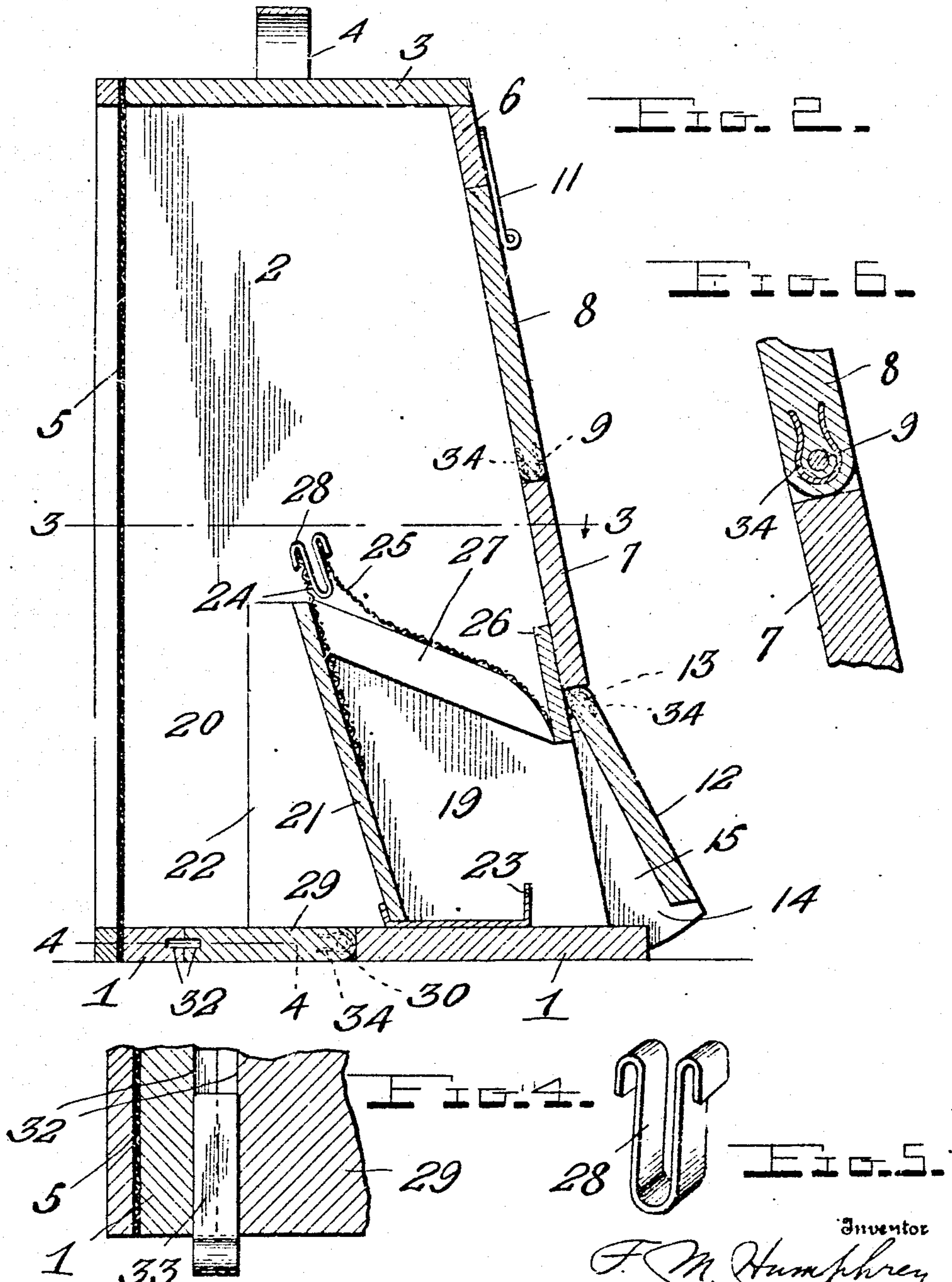
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UNITED STATES PATENT OFFICE.

FRANCIS M. HUMPHREY, OF PENDLETON, OREGON.

FLY-TRAP.

959,747.

Specification of Letters Patent.

Patented May 31, 1910.

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To all whom it may concern:

Be it known that I, FRANCIS M. HUMPHREY, a citizen of the United States, residing at Pendleton, in the county of Umatilla and State of Oregon, have invented certain new and useful Improvements in Fly-Traps, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in insect traps, and more particularly one especially adapted for catching house flies.

The object of the invention is to simplify and improve a construction of this character and thereby render them less expensive and more convenient and effective in use.

With the above and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, hereinafter fully described and claimed, and illustrated in the accompanying drawings in which—

Figure 1 is a perspective view of my improved fly trap. Fig. 2 is a vertical cross sectional view. Figs. 3 and 4 are detail sectional views taken respectively on the planes indicated by the lines 3—3 and 4—4 in Fig. 2. Fig. 5 is a perspective view of one of the spacing clips for the woven wire sheets forming a trap inlet, and Fig. 6 is a detail section showing the manner in which the pivots of the hinged doors are reinforced.

The invention comprises a body having a base or bottom 1, two upright end walls 2, and a connecting top 3, which latter may be provided with a handle 4. The open rear face of the body is flat and covered with a foraminous plate or sheet 5 preferably in the form of woven wire. The front upright edges of the end walls 2 are inclined upwardly and rearwardly, and to them are secured upper and lower stationary front sections or strips 6, 7. The space between these front sections or strips is adapted to be closed by a downwardly swinging front door 8, hinged at its lower ends as indicated at 9 to metal straps 10 secured on the ends of the sections 7. Turn buttons 11 or similar fastenings may be employed for retaining the door 8 in closed position. The lower open part of the front of the body is adapted to be closed by an upwardly swinging trap door 12, the upper corners of which are pivoted at 13 to the metal straps 10. The bottom edge of the door 12 is adapted to be supported a slight distance from the front edge of the station-

ary bottom section 1 so as to form an inlet space 14 for the flies or other insects. The door 12 may be thus supported and also for the purpose of varying the area of the inlet by providing on its ends guard plates 15 which overlap the end walls 2, and one of which has struck outwardly from its inner edge a projection or lug 16 adapted to be engaged by one of the teeth of a ratchet member 17. The latter is in the form of a strip of metal having one end pivoted at 18 on c. e. of the end walls 2, and its other end bent to form a finger piece as shown. By providing a number of ratchet teeth on the holding strip or member 17 the door 12 may be supported in any of several adjusted positions for the purpose of varying the size of the inlet of the body. The space within the body is divided into a bait compartment or chamber 19 and a trap compartment or chamber 20, said chambers or compartments being formed by providing between the end walls 2 an upwardly and rearwardly inclined partition 21 which is secured to cleats 22 on the inner faces of said walls.

At the bottom of the partition board 21 is a trough-like receptacle 23 for suitable bait, and secured to and projecting upwardly from the upper portion of said partition board is a strip or sheet of woven wire fabric 24. The latter is opposed by a similar curved strip or sheet 25, the lower edge of which is secured to a rib or cleat 26 on the inner face of the bottom portion of the front section 7 and the ends of which are secured to curved cleats 27 upon the inner faces of the end walls 2. The upper edges of the two woven wire strips or sheets 24, 25 are spaced apart to provide a contracted inlet for the trap or retaining compartment 20, such upper edges being spaced apart by spacing members 28, each of which is formed from a strip of metal bent upon itself adjacent its center and having such bent portion arranged between the sheets 24, 25, and then by bending the ends of said strips outwardly upon themselves so that they engage the edges of the sheets 24, 25 as clearly shown in the drawings.

The flies may be removed from the retaining compartment 20 through a bottom door 29, arranged between two spaced sections of the bottom 1. This door 29 is hinged to swing downwardly by providing at its opposite ends pivots 30 in which are arranged metal straps 31 secured to the ends of one

of the bottom sections. The other bottom section and the free longitudinal edge of the door 29 are formed at their ends with opposing longitudinal grooves 32, which latter are adapted to receive removable locking slides 33. The latter are in the form of straight metal strips having their outer ends bent to form finger pieces or loops so that they may be readily inserted or removed from the grooves 32.

The pivots 9, 13 and 30 of the several doors or closures of the device are preferably in the form of nails driven into the pieces of wood forming such doors, and in order to prevent the wood from splitting when the pivot nails are driven into them U-shaped reinforcing members 34 are employed. These reinforcing members are in the form of strips of metal bent into the proper shape and driven into the end edges of the doors as will be readily understood on reference to Fig. 6. It will be noted that they receive the pivot nail and effectively prevent the latter from splitting the wood.

In operation, when the parts of the trap are arranged as shown in Fig. 3, flies will be attracted to the inlet opening 14 by the bait in the pan or trough 23 and the light which enters through said opening. After entering the bait compartment 19 they pass upwardly between the woven wire plates 24, 25 and then into the compartment or chamber 20, from which they can not escape.

Having thus described the invention what I claim is:

1. A trap of the character described comprising a body having an inlet, partitions in the body dividing it into a bait chamber and a retaining chamber, said partitions having woven wire sheets spaced apart along one edge to permit flies and insects to pass from the bait compartment to the retaining compartment, and clips arranged between said edges of the sheets to space them apart, said clips being constructed of metal strips bent into U-form and inserted between the woven wire sheets, and the ends of the strips being bent outwardly in opposite directions around the edges of said sheets.

2. A trap of the character described comprising a body having an inlet and an open side covered with foraminous material, an adjustable door to vary the size of said inlet, and partitions in said body to divide

it into a bait chamber and a retaining chamber, said partitions having spaced woven wire sheets to permit insects to pass from the bait chamber to the retaining chamber.

3. A trap of the character described comprising a body having an open side covered with foraminous material, and an inlet upon the bottom of its other side, an adjustable door to vary the size of said inlet, partitions in the bottom portion of the body to divide it into a bait chamber and a retaining chamber, said partitions having spaced woven wire sheets, and a bait supporting means in said bait chamber.

4. A trap of the character described, comprising a body having spaced bottom sections, upright end walls, a connecting top and spaced front sections, a woven wire sheet covering the open front of the body, a hinged bottom door between the spaced bottom sections, a fastening for said bottom door, an upper front door between said front sections, a lower front door hinged to swing toward and from the bottom to provide an adjustable inlet, means for retaining said swinging front door in adjusted position, partitions in the lower portion of the body to divide it into a bait chamber and a retaining chamber, said partitions having spaced woven wire sheets and a bait-receiving trough on the bottom of the bait chamber.

5. A trap of the character described comprising a body having a retaining compartment and a bait compartment, the latter communicating with the retaining compartment through a contracted opening and having an inlet, said body having an opening communicating with one of said compartments, a swinging door to close the opening in said body, the free edge of said door being formed with a longitudinal groove, and one wall of said opening in the body being formed with a similar groove, the two grooves being adapted to register when the door is in closed position, and a removable locking plate in the registering grooves.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

FRANCIS M. HUMPHREY.

Witnesses:

D. LEFFINGWELL,
CELIA G. RENN.