C. PANDOLFO.

ELECTRICAL FLY KILLING DEVICE.

APPLICATION FILED OCT. 8, 1920.

1,429,691.

Patented Sept. 19, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

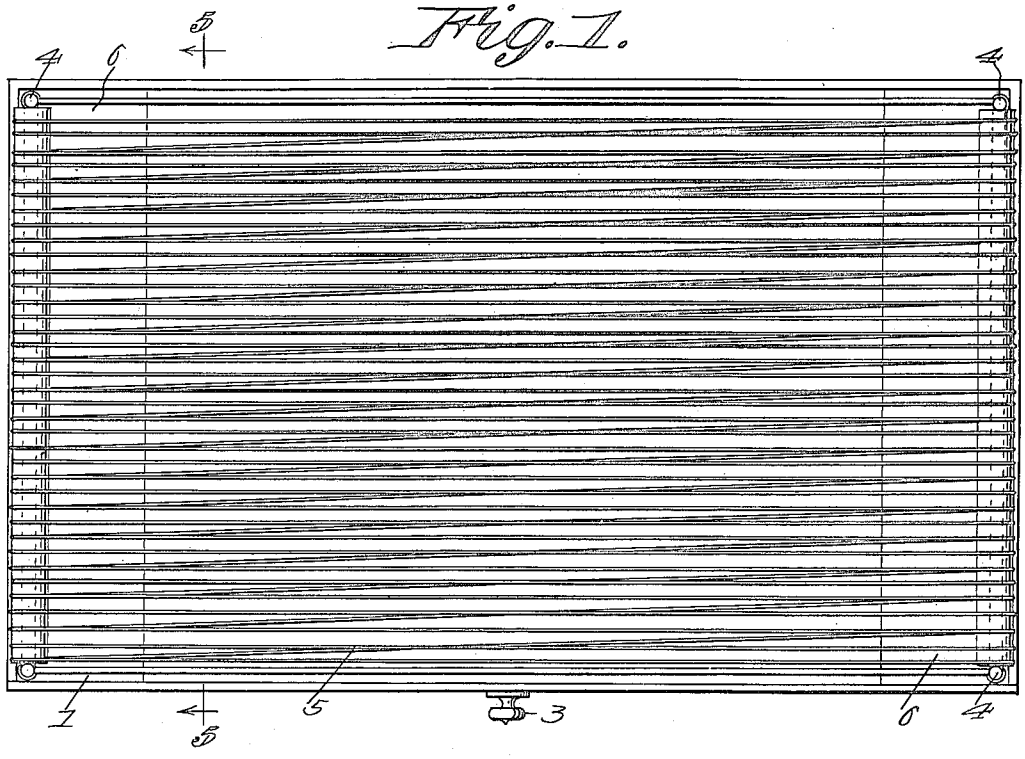
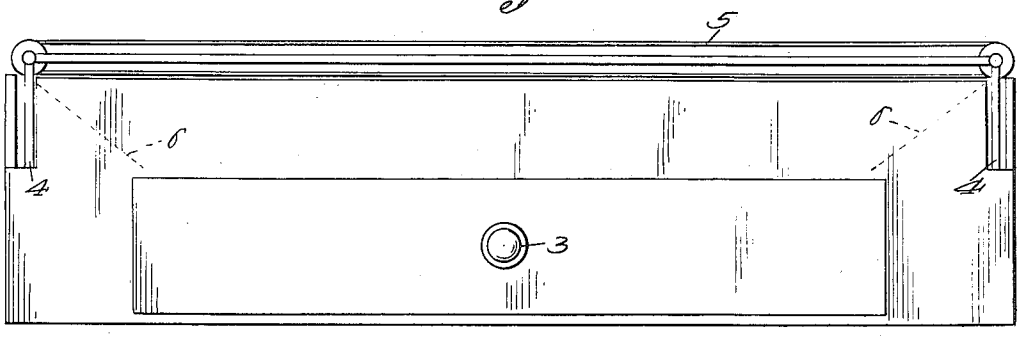


Fig. 2.



Inventor

Carmelo Pandolfo,

By H. R. Kerslake.

Attorneys

C. PANDOLFO.

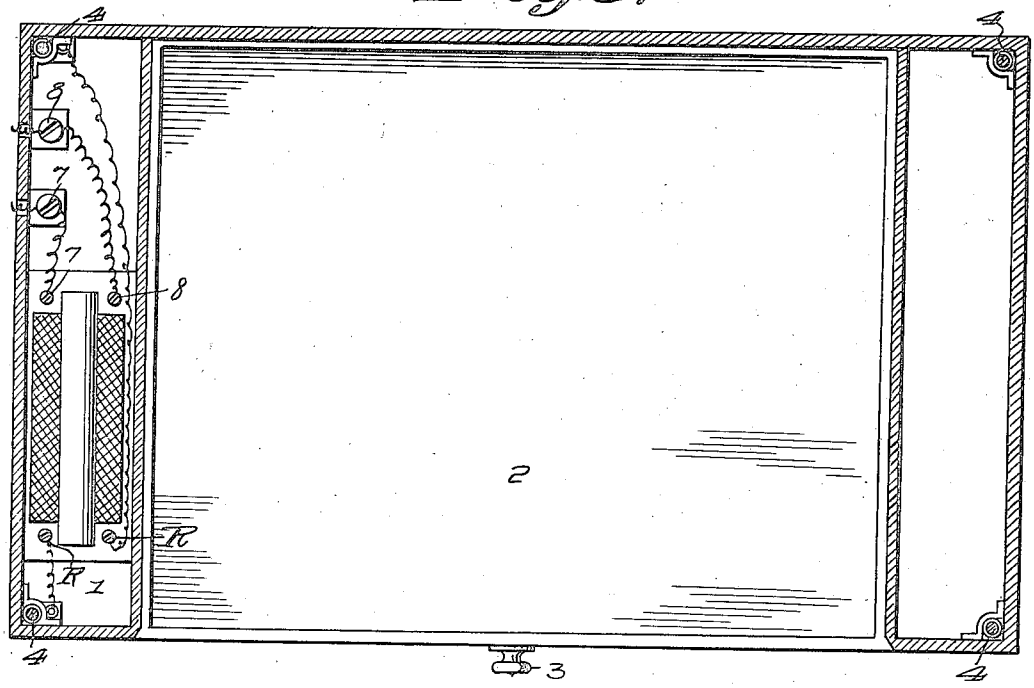
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2 SHEETS—SHEET 2.

Fig. 3.



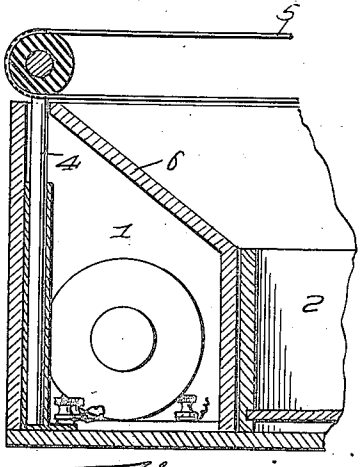


Fig. 4.

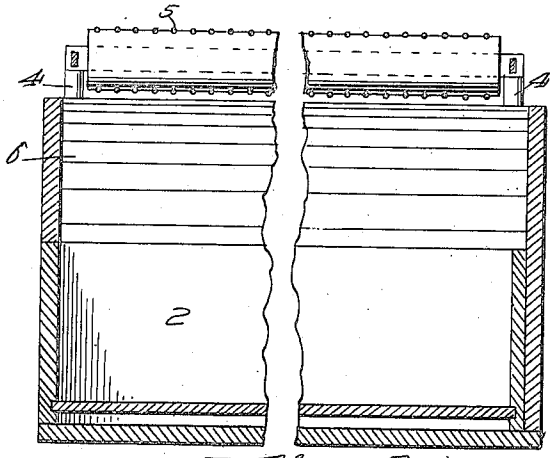


Fig. 5.

Inventor

Carmelo Pandolfo,

By H. R. Kerslake.

Attorneys

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UNITED STATES PATENT OFFICE.

CARMELO PANDOLFO, OF MONTEVIDEO, URUGUAY.

ELECTRICAL FLY-KILLING DEVICE.

Application filed October 8, 1920. Serial No. 415,591.

To all whom it may concern:

Be it known that CARMELO PANDOLFO, subject of the King of Italy, residing at 220 Washington Street, Montevideo, Uruguay, South America, has invented certain new and useful Improvements in an Electrical Fly-Killing Device, of which the following is a specification.

This invention relates to improvements in electrical insect killing devices.

The primary object of the invention is to provide an electrical fly killing device, which due to its efficiency and cleanliness, is superior to those already known.

A further object of the invention is to provide an electrical device including a transformer by which the house current may be stepped down to accommodate the present apparatus.

With the foregoing objects outlined and with other objects in view as will appear as the description proceeds, the invention consists in the novel features hereinafter described in detail, illustrated in the accompanying drawings and more particularly pointed out in the appended claims.

Referring to the drawings:

Figure 1 is a top plan view of the apparatus.

Fig. 2 is a front view of the same.

Fig. 3 is a horizontal sectional view.

Fig. 4 is a vertical longitudinal sectional view of a portion of the apparatus.

Fig. 5 is a transverse vertical sectional view of the apparatus.

The apparatus consists of a casing or box having an open top and provided with a compartment 1 in which the transformer is placed. Arranged within the casing is a drawer 2 having a handle 3. This drawer is adapted to receive the electrocuted flies or the like.

Arranged at the corners of the casing are socket members supporting posts 4, which in turn support insulated horizontally arranged cylinders, having grooves which receive the wires forming the net 5. Arranged below the net are downwardly and inwardly inclined end members 6 which act by gravity to deposit flies falling on the same, in the drawer 2.

The house current or the like is led into the apparatus by means of wires connected to the binding posts 7 and 8. Other wires connect these binding posts to the primary winding of the transformer. The induced current flows out through the secondary circuit and feeds the net through wires connected to the contacts R.

The net 5 is a double faced construction and the wire from which it is made is wound around the insulated cylinders with about 3 mm. separations between each conductor so that the two faces are superimposed, but separated by a 2 cm. space which is the width or diameter of each of the insulated cylinders. This special two face feature has the advantage of depriving the insects of the power to move immediately they alight on the net. The insects are kept in this condition for a space of a few seconds until their nervous systems collapse, and due to the electrical current the insects are soon killed and fall into the drawer 2.

The present apparatus is superior to fly paper as it maintains a tidy appearance and does not emit any disagreeable odors. It is also superior to fly killers which employ poisonous materials that are absorbed by the flies, owing to the fact that the flies absorbing the poisonous material die in all parts of the house, while in the present construction the flies killed are gathered in a single compartment.

From the foregoing I believe that the construction, operation and advantages of the present invention will be apparent to those skilled in the art, and it is obvious that various changes may be made in the details illustrated without departing from the spirit of the invention as expressed in the claims.

Having thus described and ascertained the nature of my invention and the manner in which same is to be performed, what I claim is:

1. An insect electrocuting apparatus comprising a casing, posts extending from the corners of said casing, insulated cross bars arranged between the posts and supported by the latter, conducting wires spaced apart and wound upon said cross bars, and a transformer arranged in the casing and in electrical connection with said wires

2. An apparatus of the kind defined by claim 1 in which the casing has an open top and said wires extend over said open top to permit the electrocuted flies to be deposited in the casing.

3. An apparatus of the kind defined by claim 1 in which the casing is provided with sockets supporting certain of said posts, and binding posts arranged on said sockets for

conducting the current from the transformer to said posts.

4. In combination, a casing having an open top and provided with a sliding drawer, downwardly and inwardly inclined end members arranged within the casing and having their lower edges arranged adjacent to the upper edges of the ends of the drawer, posts arranged at the corners of said casing and projecting above the same, cylindrical cross-bars supported by said posts, arranged at the ends of the casing and provided with grooves, conducting wires wound upon said cross bars and engaging said grooves, and means for conducting current to said wires.

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

CARMELO PANDOLFO.

Witnesses:
ALFREDO R. BALS,
ANTONIO CARAMÉ.