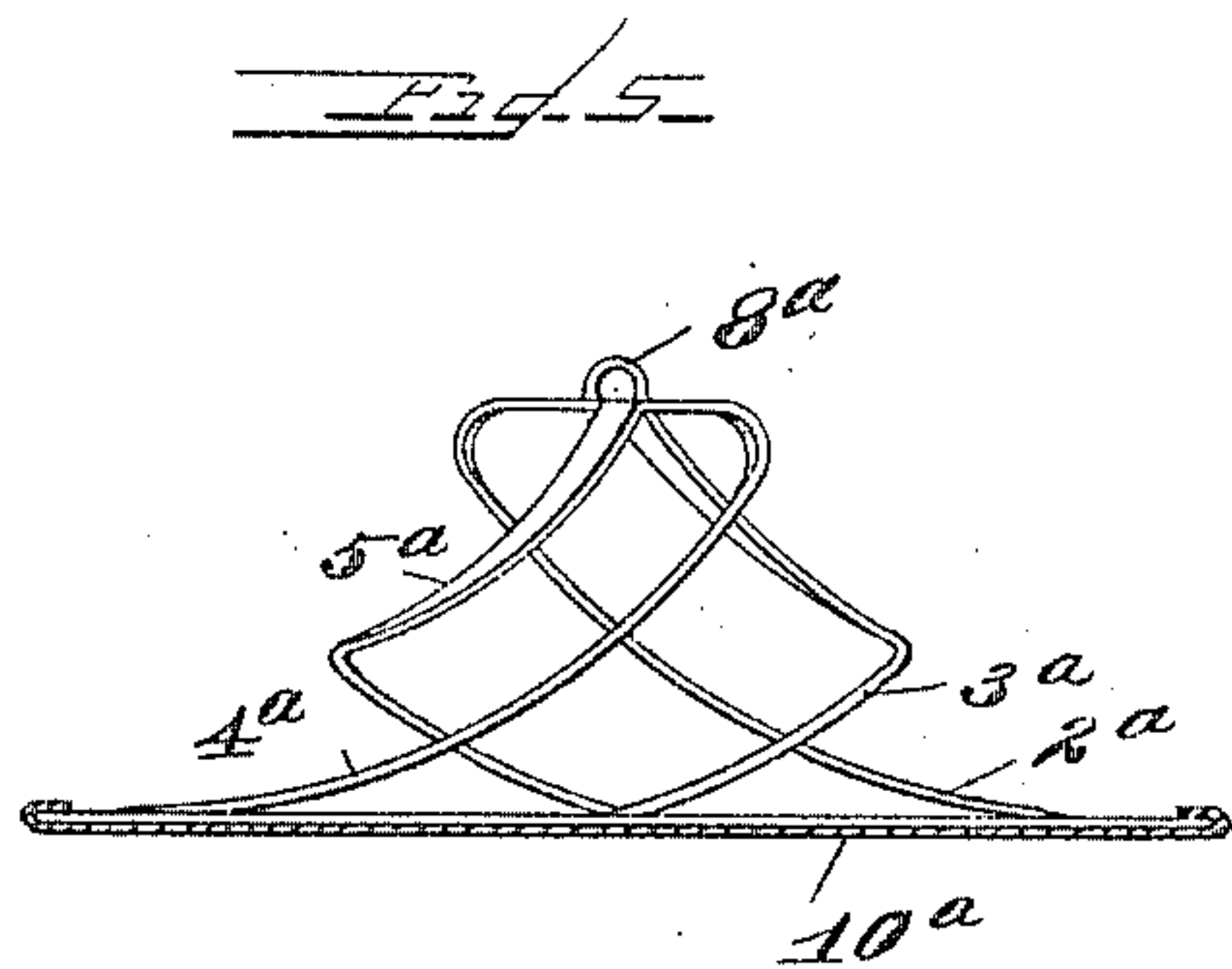
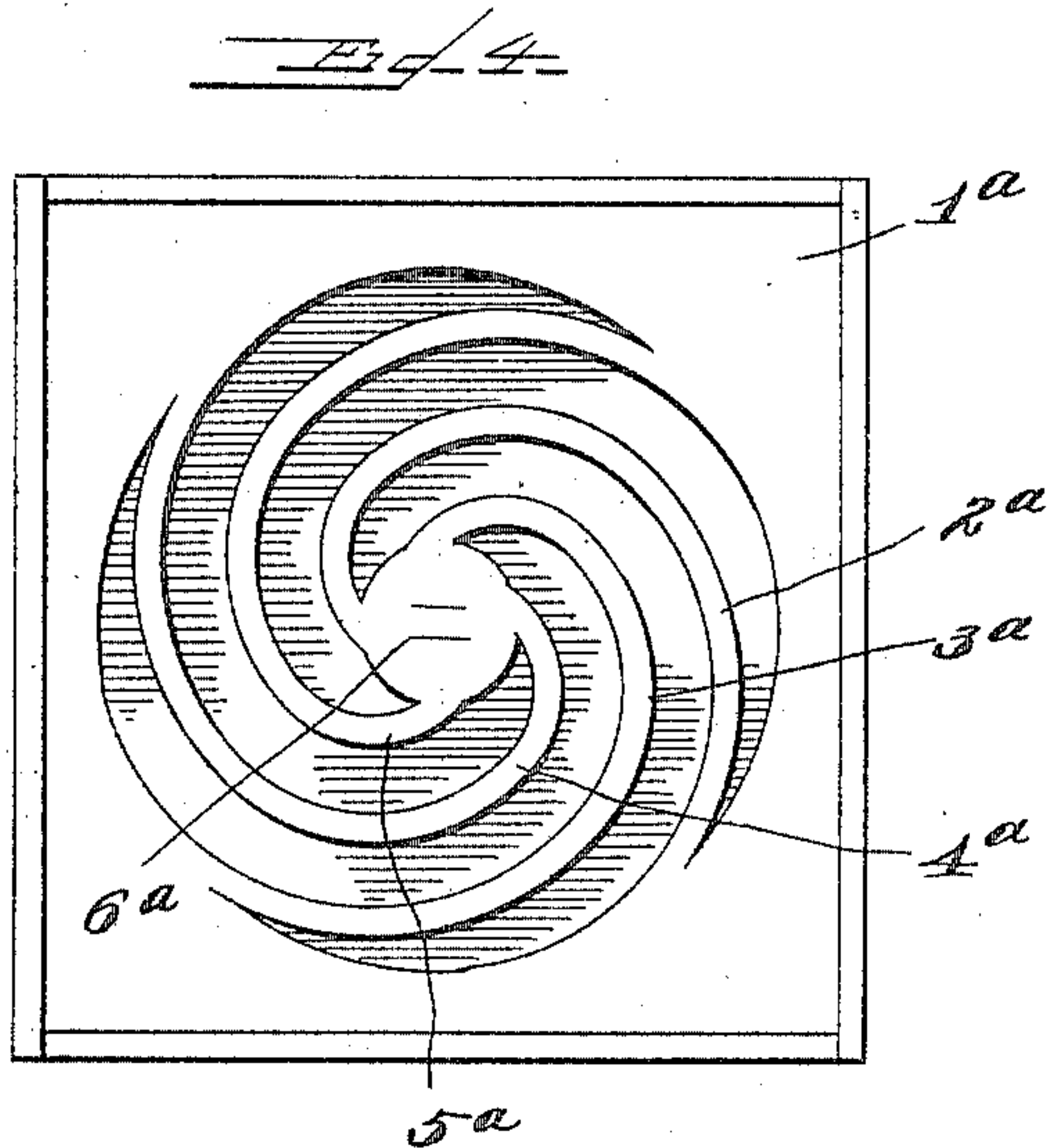
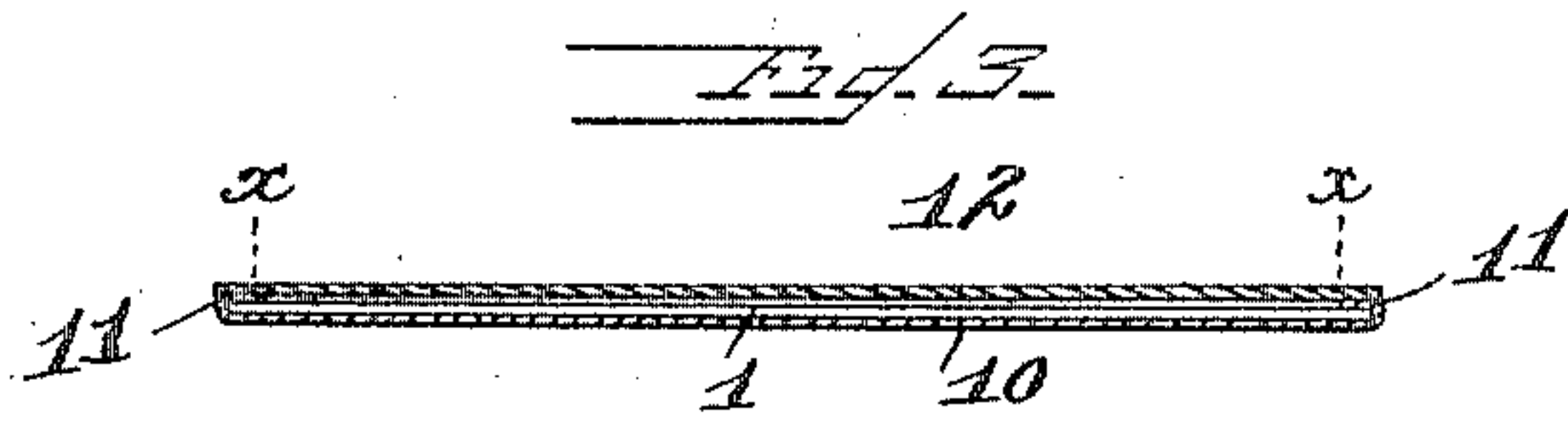
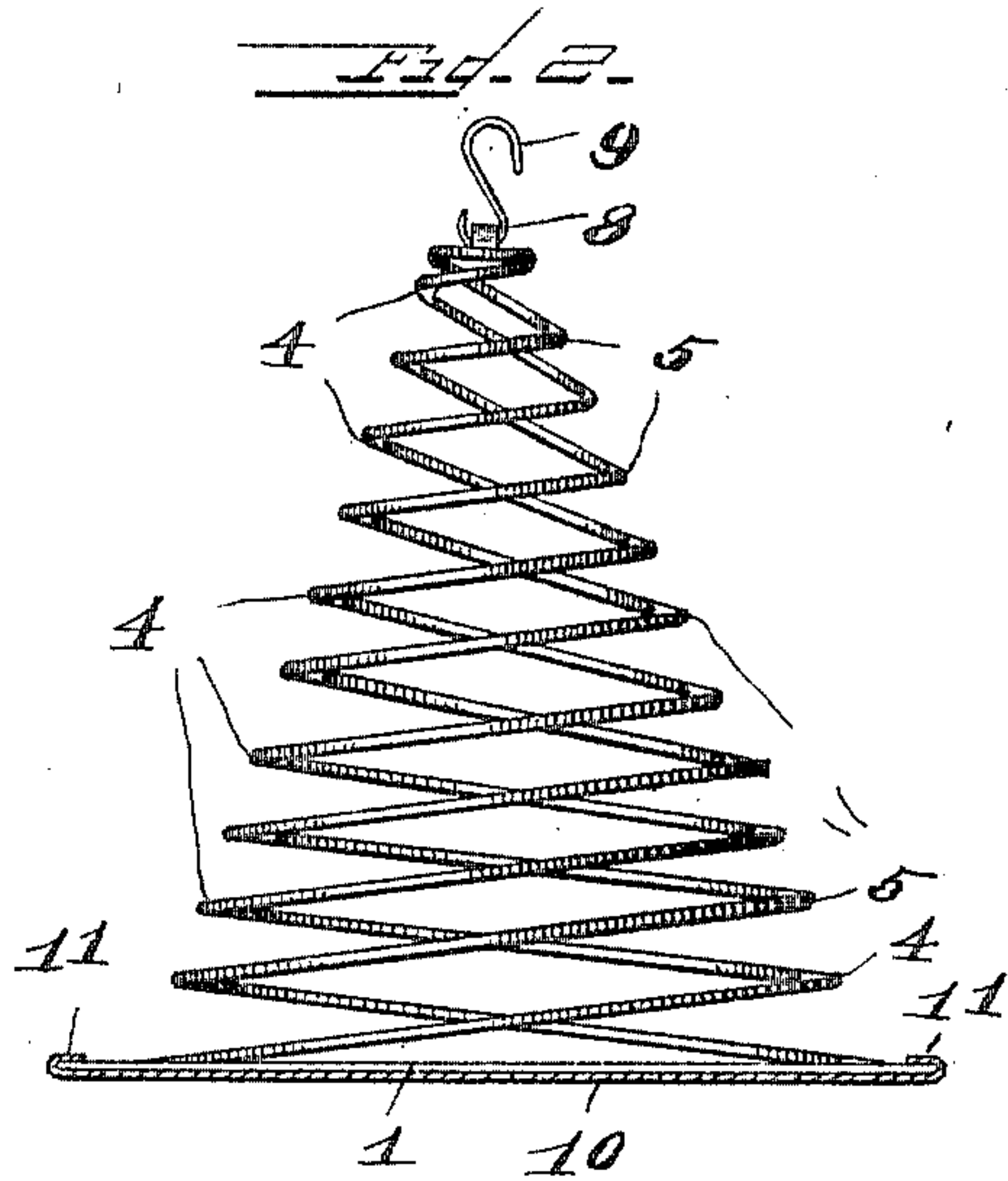
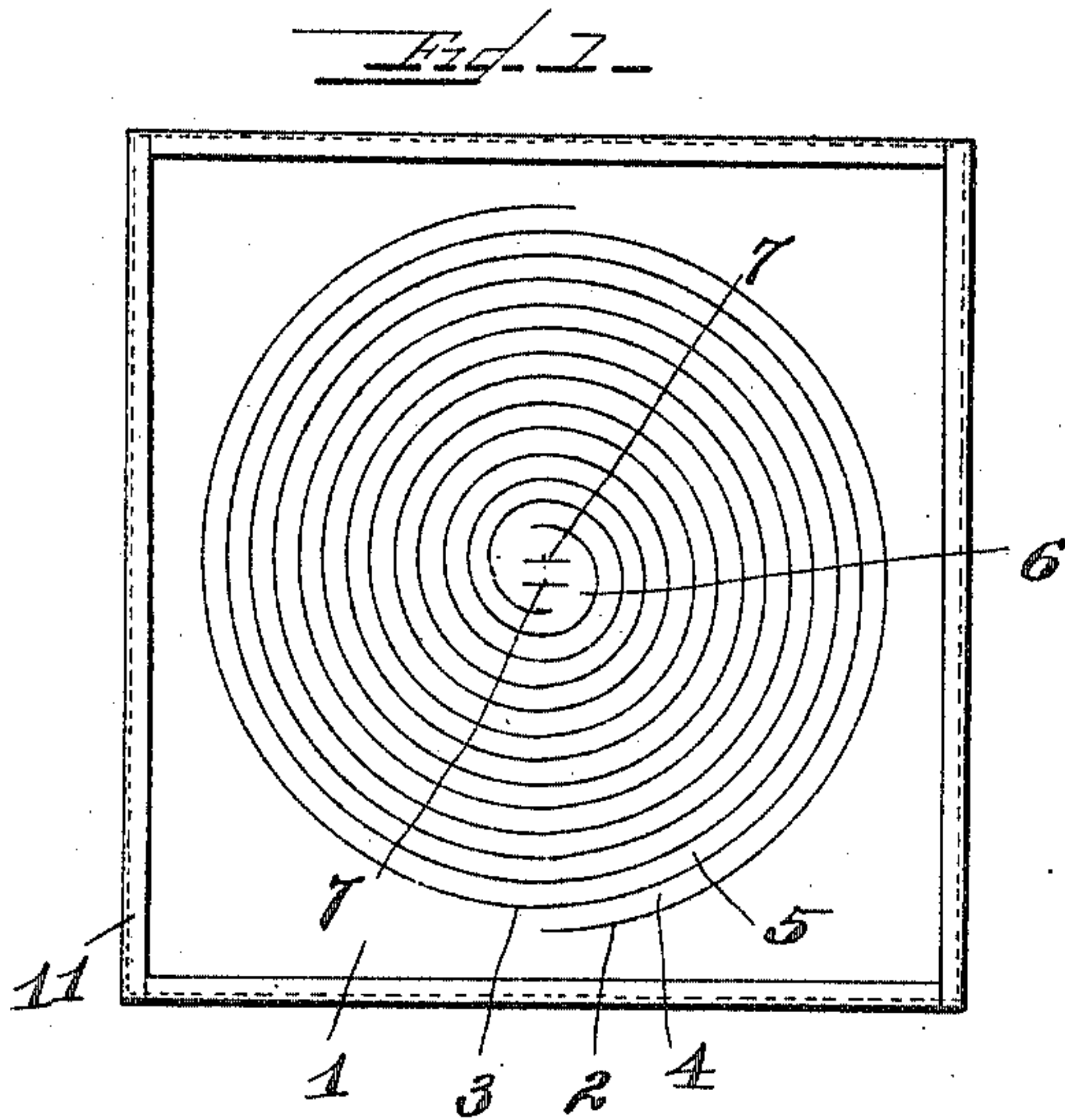


No. 811,875.

PATENTED FEB. 6, 1906.

J. SAMUELS.  
INSECT CATCHER.

APPLICATION FILED APR. 4, 1904.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JACOB SAMUELS, OF CHICAGO, ILLINOIS, ASSIGNOR TO BEE-HIVE FLY CATCHER COMPANY, OF KENOSHA, WISCONSIN, A CORPORATION OF WISCONSIN.

## INSECT-CATCHER.

No. 811,875.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed April 4, 1904. Serial No. 201,507.

*To all whom it may concern:*

Be it known that I, JACOB SAMUELS, a subject of the Queen of the Netherlands, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Insect-Catchers, of which the following is a specification.

This invention relates to devices for entrapping insects, and refers particularly to a structure adapted to be coated with a sticky or adhesive substance for holding fast any insects that may alight thereon.

One of the objects of the invention is the production of an open structure coated with a sticky material, upon which structure flies and other insects are likely to alight.

A further object of the invention is the production of a folding structure for the purpose mentioned.

The invention further refers to a containing-tray for an insect-catcher.

Further objects of the invention are the combination of such a folding structure with a suitable containing-tray and the provision of said tray with means for confining the sticky substance for convenience in handling and shipping the device and for preserving said substance in a soft or semifluid condition.

The invention further refers to a structure formed from a piece of sheet material, which structure is extensible from the plane of the sheet from which it is formed for service and is collapsible into said plane for packing and handling.

The invention further refers to other improvements in insect-catchers, hereinafter shown and described.

In the accompanying drawings, Figure 1 is a plan view of one of the forms of this improved insect-catcher in a folded position. Fig. 2 is a side elevation of the insect-catcher extended, the tray being shown in section. Fig. 3 is a transverse section through the catcher when the same is folded and packed for shipping. Fig. 4 is a top plan view of a modified construction of said insect-catcher; and Fig. 5 is a side elevation of the catcher shown in Fig. 4, the tray being shown in section.

In that embodiment of my invention shown in Figs. 1, 2, and 3 I provide a sheet 1 of thin material, preferably sheet metal, and by

punching or other suitable means cut helical rings 2 and 3 therein, forming helical ribbons 4 and 5 and leaving at the center of the sheet a disk portion 6, the helical ribbons 4 and 5 joining said center disk upon diametrically opposite sides thereof and terminating in the sheet 1, also at diametrically opposite sides of the circular figure formed by said rings. Two short parallel slits 7 are formed in the center disk 6, permitting the raising of a loop 8 from said disk, which loop is adapted to receive a hook 9, by means of which the device may be suspended from any suitable support.

The sheet 1 is provided with a tray 10, formed of paper or other suitable material folded upwardly and over the edges of said sheet in the flanges 11. In packing the device for shipment a cover 12 is secured upon the flanges 11 by means of glue or in any other suitable way.

In the manufacture of this device the sheet 1 is punched or cut with its rings 2 and 3 and the slits 7. The sheet is then dipped into a solution of the sticky material with which it is to be coated and while it is yet dripping with said sticky material is placed within its tray 10 and the flanges or edges 11 folded over the outer edges of said sheet and stuck in position at their corners by means of glue or cement. The cover 12 is then placed upon said flange edges and secured thereon by glue or cement. When it is desirable to open the package (shown in Fig. 3) for use, the cover 12 is cut, as with a knife, on dotted line *x* (shown in Fig. 3) and the portion of the cover thus cut out removed. The hook 9 is then inserted into the loop 8 of the center disk 6 and the helical coils or ribbons 4 and 5, formed by the rings 2 and 3, are pulled upward away from the tray 10. By stretching the ribbons to a considerable height they are fully expanded, after which the structure may be pushed back into the position it is intended to occupy.

In Figs. 4 and 5 a modified form of the invention is shown. In this modification the sheet 1<sup>a</sup> is cut to form the helical ribbons 2<sup>a</sup>, 3<sup>a</sup>, 4<sup>a</sup>, and 5<sup>a</sup>, a portion of the material of the sheet being cut away. This modified form also has the center disk 6<sup>a</sup>, with the raised loop 8<sup>a</sup>, formed therefrom. The sheet 1<sup>a</sup> is

provided with a tray 10<sup>a</sup> and with a cover (not shown) identical with the tray and cover shown in Figs. 1, 2, and 3.

I claim as my invention—

5 1. An insect-catcher comprising two helical members coated with an adhesive substance, the axes of which members are substantially coincident.

10 2. An insect-catcher made from a piece of sheet material, said material having two spi-

ral slits therein whose axes are substantially identical, the material between said slits being connected by a central portion, whereby said sheet may be extended in the direction of its thickness, portions of said sheet material 15 being coated with an adhesive substance.

JACOB SAMUELS.

Witnesses:

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GEORGE L. CHINDAHL.