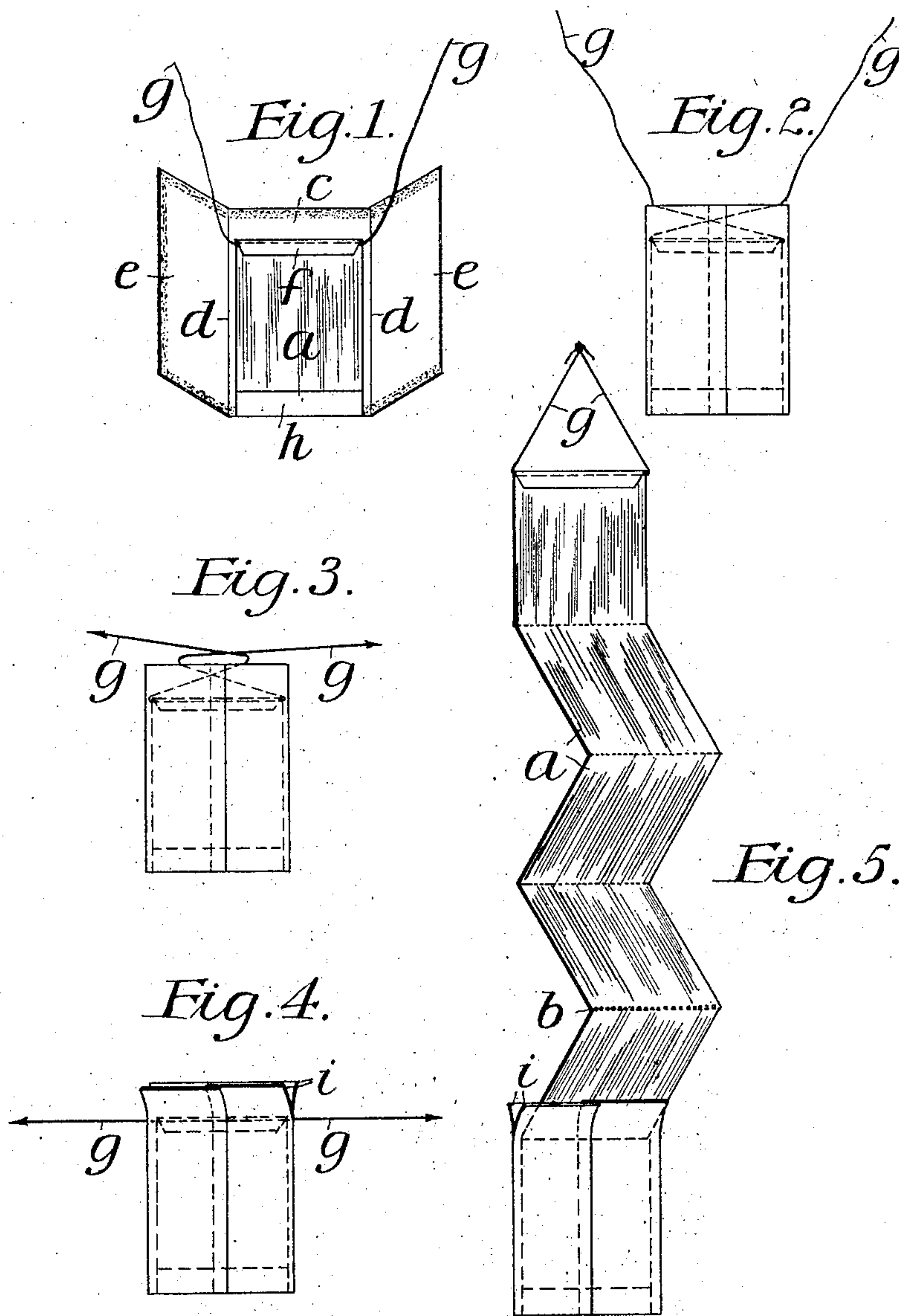


H. VON ESSEN.
 FLY CATCHER.
 APPLICATION FILED APR. 16, 1909.

960,527.

Patented June 7, 1910.



Witnesses
Emil Menckhoff
Olga Menckhoff

Inventor
Harald von Essen

UNITED STATES PATENT OFFICE.

HARALD VON ESSEN, OF HAMBURG, GERMANY.

FLY-CATCHER.

960,527.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed April 16, 1909. Serial No. 490,382.

To all whom it may concern:

Be it known that I, HARALD VON ESSEN, a citizen of Hamburg, and resident of No. 58 Schulterblatt, Hamburg, in the Empire of Germany, merchant, have invented a new and useful Fly-Catcher, of which the following is a specification.

A fly catcher, which employs a sticky or adhesive surface, has to show the following properties, if it is destined to successfully conquer the general market. It must require in its production a minimum in material and labor; it must be as light as possible and demand a minimum in space when packed for transport or storing. When in use, it must not be offensively noticeable. In technical regard, such a fly catcher requires to be housed, when not in use, perfectly air- and oil-tight, in order to prevent the drying of the glue or the percolation of the liquefied glue respectively. In its application, a fly catcher of the class specified must be reliable in its functions, it should be adapted to be easily opened and comfortably handled when pulling out the sticky band, without the possibility of soiling the hands or fingers in its attachment to the place of support. Finally such a fly catcher has to be provided with a tape or string to enable the attachment of same where required for use.

The fly catcher, which forms the subject of the present application and which belongs to the class of such devices specified above, answers the requirements enumerated to perfection, by virtue of the fact, that the zigzag-wise folded band is contained air- and oil-tight in an envelop when not in use and is provided with a string, whose two ends project from the lateral edges of the sticky band and are caused to cross each other above the latter, for the purpose of being glued in this condition inside the top closure of the envelop, issuing with the extremities therefrom. In consequence of the aforesaid arrangement, said two ends of the string, when being pulled, open automatically the top closure of the envelop and subsequently extract the sticky band from the envelop up to the last zigzag fold, which remains in firm connection with the envelop. Finally the string serves for tying the fly catcher to its requisite place of support.

The invention consists in the novel combination, arrangement and adaptation of parts, all as more fully hereinafter explained, shown in the accompanying drawings and

then specifically set out in the appended claims.

In the drawings Figure 1 shows the fly catcher inside its open envelop in front elevation. Fig. 2 shows the fly catcher contained in its closed envelop. Figs. 3 and 4 illustrate the novel manner of opening the envelop to extract the fly catcher therefrom. Fig. 5 shows the fly catcher extracted from its envelop and hung up ready for use.

The fly catcher consists of a band or ribbon *a*, which is rendered sticky on both sides by means of suitable glue and which is folded zigzag-wise or in concertina fashion, in order to avoid every waste in space when packed for transport or storing. It is advisable to perforate the edges of the folds, as indicated by the reference letter *b* in Fig. 5, so as to produce passages, which enable the glue accumulating in the angle corners to reach the other side of the band and in this manner to guarantee a uniformly sticky or adhesive surface.

The perforations *b* at the edges of the folds, further, entail the advantage, that the band *a* in being folded zigzag-wise produces no protuberances or bulges at the superposed edge portions. In other words, all the superposed layers of the folds are plane, when being pressed together, thus insuring a square package of the entire band *a*.

The extremity of the top layer of the zigzag-wise folded band *a* is provided with a string, a tape or a wire, which may be fastened by gluing in the doubled back edge portion *f* of the band *a*, as indicated in the several figures of the drawing, but which may also be fastened in any other desired and appropriate manner, so long as the means of fastening enable the two ends *g* of the string or the like to issue and protrude from the lateral edges of the band *a*.

According to this invention, the zigzag-wise folded band *a* is packed in an envelop, preferably produced from pergamin, so as to insure an air- and oil-tight closure, which protects the sticky or adhesive surfaces of the band against the detrimental influences of the outer atmosphere until the moment for employing the fly catcher arrives. The envelop comprises the center part *c* and the side flaps *e*, which are adapted to be bent over on the folding lines or indentations *d*.

The sticky band *a* is attached with its lowermost layer of the zigzag folds to the envelop. It is advisable to effect the attach-

ment by granting the lowermost layer of the band a larger size, so that its end portion *h* projects from the superposed layers or folds and may be stuck in between the center part *c* and the side flaps *e* of the envelop, when they are glued together in wrapping the fly catcher. Apart from facilitating the fastening of the fly catcher to the envelop as just described, this projecting marginal portion *h* of the lowermost layer or fold of the band *a* prevents the tearing out or separation of the band from the envelop during the extraction of the zigzag folds in exposing the sticky or adhesive surfaces of the fly catcher ready for use. This is due to the fact, that the envelop is grasped and held by the fingers at the lower edge portion inclosing the marginal portion *h* of the band *a*, when pulling out the latter.

The two free ends *g* of the string issuing from the lateral edges of the band *a* at its top end, are crossed on the head portion of the center part *c* of the envelop, which overlaps the package formed by the zigzag-wise folded band *a*. Subsequently the crossed ends *g* of the string are glued in between the center part *c* and the side flaps *e* of the envelop in closing the latter, as indicated in Fig. 2. It may be remarked here, that the envelop is larger than the package formed by the band *a* and that only the marginal portions of the blank constituting the envelop are pasted together, as indicated in Fig. 1, so that the fly catcher contained in the envelop is not caught in the joints, except at the lower end of the envelop by the edge portion *h* of the band *a* and except at the top end of the envelop by the crossed ends *g* of the string, which latter stand out some distance from the hermetically sealed oil-tight envelop.

In order to employ the fly catcher, the ends *g* of the string issuing from the envelop are grasped and pulled in the directions indicated by the arrows in Fig. 3. By virtue of the pulling force exerted, the top edge closure of the envelop is torn open and lips *i* are produced as shown in Fig. 4, which are somewhat opened in pulling the zigzag folds of the band *a* through them. These lips *i* serve to catch the glue that may run down on the band when liquefied, and serve to guide and collect this glue in the envelop, thus preventing the soiling of the surrounding objects and of the floor. The ends of the string enable the sticky band to be extracted from the envelop without claiming special attention or care in this manipulation and without the danger of soiling the fingers or clothes. When the sticky band is sufficiently extracted, the fly catcher is hung at the place required by the string *g*.

While I have shown in the accompanying drawings the preferred form of my invention, it will be understood that I do not limit

myself to the precise form shown, for many of the details may be changed in form or position without affecting the operativeness or utility of my invention, and I therefore reserve the right to make all such modifications as are included within the scope of the following claims, or of mechanical equivalents to the structure set forth.

What I do claim as my invention, and desire to secure by Letters Patent, is:

1. A fly-catcher comprising, in combination, an adhesive band folded zigzag-wise, an air- and oil-tight cover enveloping said band and attached to the lower extremity of the latter, a string fast to the upper extremity of the adhesive band, both ends of said string projecting from the side edges of the band and after being cross-wise pasted in the top edge closure of the air- and oil-tight cover issuing from the latter, so as to enable by pulling to open the cover and to subsequently extract the sticky band therefrom and finally to hang up the fly catcher, substantially as set forth.

2. A fly catcher comprising, in combination, an adhesive band folded zigzag-wise, a string fast to the upper extremity of said band having both ends projecting from the side edges thereof, and air- and oil-tight bag enveloping the adhesive band and attached to the lower extremity of the latter, the top portion of said bag being glued together with the two ends of the aforesaid string crossing therein and issuing therefrom, so that by pulling the string ends in opposite directions the top closure of the bag is torn open and lips are produced for catching the liquid glue trickling down the adhesive band, substantially as set forth.

3. A fly-catcher comprising, in combination, an adhesive band folded zigzag-wise, having the lowermost layer or fold extended, a string fast to the upper extremity of said band having both ends projecting from the side edges thereof, an air- and oil-tight bag enveloping the adhesive band and attached to the projecting marginal edge portion produced by the extension of the lowermost layer or fold of the adhesive band, the top portion of said bag being glued together with the two ends of the aforesaid string crossing therein and issuing therefrom, so as to enable by pulling to open the cover and to subsequently extract the sticky band therefrom and finally to hang up the fly catcher, substantially as set forth.

4. A fly-catcher comprising, in combination, an adhesive band folded zigzag-wise, the folding edges of the band being perforated to enable the glue to percolate there through, a string fast to the upper extremity of said band having both ends projecting from the side edges thereof, and air- and oil-tight bag enveloping the adhesive band and attached to the lower extremity of the lat-

ter, the top portion of said bag being glued together with the two ends of the aforesaid string crossing therein and issuing therefrom, so that by pulling the string ends in
5 opposite directions the top closure of the bag is torn open and lips are produced for catching the liquid glue trickling down the adhesive band, substantially as set forth.

In witness whereof I have hereunto signed my name this second day of April 1909, in the presence of two subscribing witnesses.

HARALD VON ESSEN.

Witnesses:

OTTO W. HELLMRICH,
E. H. L. MUMMENHOFF.