

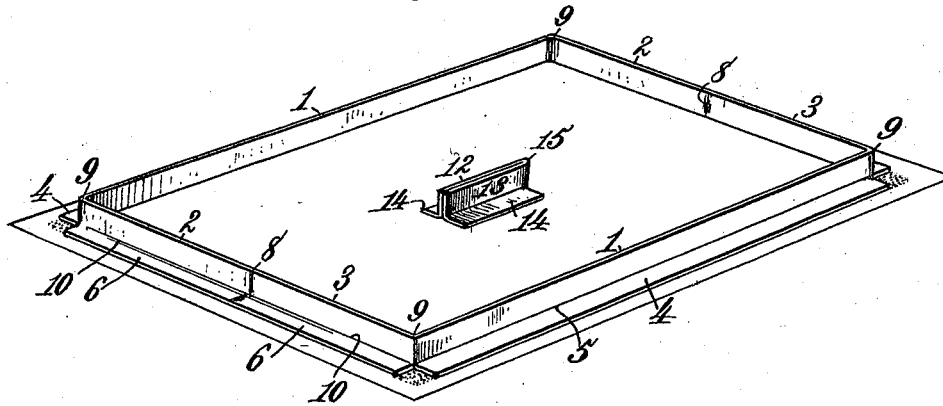
(No Model.)

J. H. SMITH.  
FLY PAPER HOLDER.

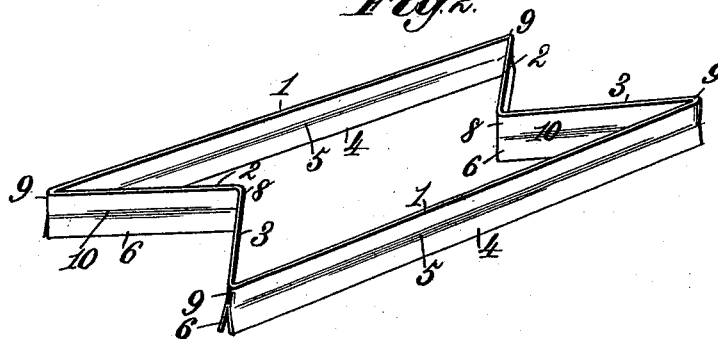
No. 491,860.

Patented Feb. 14, 1893.

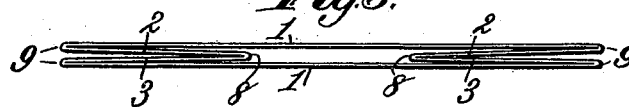
*Fig. 1.*



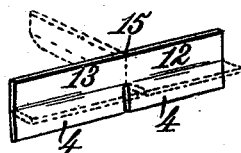
*Fig. 2.*



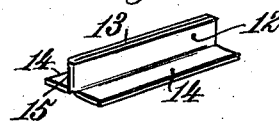
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

JAY HUNGERFORD SMITH, OF ROCHESTER, NEW YORK.

## FLY-PAPER HOLDER.

SPECIFICATION forming part of Letters Patent No. 491,860, dated February 14, 1893.

Application filed October 27, 1892. Serial No. 450,097. (No model.)

*To all whom it may concern:*

Be it known that I, JAY HUNGERFORD SMITH, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Fly-Paper Holders, of which the following is a specification.

This invention has for its object to provide a new and improved device which can be collapsed or folded into compact form for shipping with sheets of sticky fly-paper, or otherwise transported in a comparatively small space, and is susceptible of being extended or unfolded to form a square, rectangular, or similar angular shaped frame which can be applied to the border, edges or margin of the sticky field and thereby secured in place, for holding the sheet of fly-paper in a flat condition, retaining it in proper position on a table or other support, preventing the paper from curling at the ends or sides and from blowing or turning over, and also preventing the sticky material from spreading or running from the paper, while serving as an obstruction or bar to flies endeavoring to crawl over the edge portions of the sticky field or coating.

The invention also has for its object to provide a novel holder which can be applied to a sheet of sticky fly-paper for holding it in a flat condition, the construction being such that a plurality of sheets of fly-paper, each having one of the holders, can be arranged in a stack or column to occupy a small space until required for distribution on tables or other places, without danger of the sticky fields of the sheets coming in contact and adhering together.

The invention also has for its object to provide a novel center support adapted to be placed on the sticky field of a sheet of fly-paper provided with the improved holder, whereby the central portions of the sheets will be sustained or supported when stacked or arranged one above the other. These objects are all accomplished in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1, is a perspective view of my improved holder applied to a sheet of fly-paper,

the center support being also arranged in position on the sticky field. Fig. 2, is a detail perspective view showing the holder partially collapsed or folded. Fig. 3, is a similar view showing the holder folded for transportation or storage. Fig. 4, is a detail perspective view of the center support in a flat condition for transportation or storage, the flange portion being indicated by dotted lines, as standing at right angles to the body portion; and Fig. 5, is a similar view showing the center support in position for application to the sticky field.

In order to enable those skilled in the art to make and use my invention I will now describe the same in detail, referring to the drawings wherein—

The numerals 1, 2 and 3 indicate the body portion or frame of the improved holder. For convenience in describing the invention I will term the parts 1 the end pieces, and the parts 2 and 3 the side pieces. The end pieces 1 may be unbroken from end to end and at their lower edges are provided with flanges 4, connected thereto by joints or flexible connections 5 of any suitable construction. The side pieces are each composed of two sections 2 and 3 having flanges 6, and connected together by a joint 8, and also connected with the end pieces 1 by joints 9. The flanges 6 are connected with the side pieces 2 and 3 by means of joints 10. The joints 5, 8, 9 and 10 may be of any construction which will permit the parts to be collapsed or folded as will hereinafter appear, but as illustrated in drawings these joints are formed by creases produced in the material of which the holder is composed.

In practice the holder is made from paper, cardboard, or any similar material which can be creased to produce the joints. I wish it to be understood, however, that the holder may be composed of any material suitable for the conditions required and the joints may be of any known construction.

I prefer the construction exhibited in the drawings in that it is very simple, efficient and economical and enables the devices to be gratuitously distributed with sticky fly paper now in the market.

When the holder or frame is extended or unfolded and the several flanges are turned

laterally to stand approximately at right angles to the end and side pieces, these flanges can be placed upon the adhesive border, edge or margin of the sticky field of a sheet of fly paper so that the flanges will thus be secured in position and the holder or frame will surround the sticky field. By this means the sheet of sticky fly paper will have the appearance of a shallow box, the edges of which stand upright about three-eighths of an inch, more or less. The holder effectually holds the sheet of fly paper in a flat condition and retains it in proper position so that the edges or sides are prevented from curling or turning up. The holder also retains the paper in such position that it is not liable to blow or turn over and further the holder prevents the sticky material from spreading or running from the paper, and also serves as an obstruction or bar to flies endeavoring to crawl from the edge portions of the sticky field. The improved holder is also advantageous when it is desired to stack sheets of sticky fly-paper in a column to occupy a small space until required for use. For example, when fly-paper is employed in large hotels it is liberally distributed about the dining room and at meal time it is desirable to remove the paper. By applying one of the improved holders to each sheet of fly paper the latter can be arranged in a stack or column to occupy a small space until required for distribution. In arranging the sheets of paper in a stack or column in the manner alluded to, it is desirable to support the central portions of the sheets so that the sticky fields will not likely come in contact and adhere together. To accomplish this purpose I provide a center support composed of strips 12 and 13 Figs. 4 and 5 having flanges 14, and connected by a joint 15 which may be formed by creasing the material or in any other manner. The strip when not in use is in the flat condition exhibited by full lines Fig. 4, but when it is desired to employ the center support, the strips 12 and 13 are turned on the joint 15 so that they stand approximately parallel as in Fig. 5, and the flanges 14 are spread laterally to stand approximately at right angles to said strips. The center support is then applied to the sticky field of the fly paper at or near the center thereof as in Fig. 1, so that when a plurality of sheets of fly paper are arranged in a stack or column the central portions of all the sheets will be properly sustained and effectually prevented from coming in contact and adhering together.

The simplicity of my improved holder and the economy by which it can be manufactured, render it possible to gratuitously distribute the holders with the fly paper, and the construction of the holder is such that it can be folded into a small space and thus be effectually shipped or transported with the fly paper or otherwise as may be desired.

When the fly paper becomes filled with flies

the holder can be readily removed by slightly warming the paper and subsequently the same holder can be employed on a fresh sheet of fly paper. The holder can be made at a single stroke of a die to form a creased strip and is finished by simply gluing or otherwise connecting the ends of the strip together.

The holder can be employed on any sheet of sticky fly paper by having the flanges 4 and 6 made sufficiently wide to provide the requisite surface for contact with the margin of the ordinary fly catching field.

By my invention I provide a fly paper holder which can be readily collapsed or folded for convenience of shipment and also conveniently extended or unfolded for convenient application to the fly paper. In this respect my invention possesses many advantages over a rigid frame applied to a support on which the ordinary sheet of fly paper is placed.

Having thus described my invention what I claim is:—

1. As an improved article of manufacture, a holder for preserving a sheet of fly paper in a flat condition while the sticky field is exposed in use, consisting of substantially vertical end pieces and similar side pieces jointed to the extremities of the end pieces and also jointed intermediate their jointed ends to fold inward toward each other between the said end pieces and thus bring the latter together, substantially as and for the purposes described.

2. A fly paper holder, consisting of end pieces and side pieces having flanged lower edges and jointed together and also jointed to the end pieces, whereby the holder can be collapsed or folded into a substantially flat condition and subsequently extended or unfolded and by the said flanges caused to adhere to the border, edge or margin of the sticky field of the fly paper, substantially as described.

3. A fly-paper holder, consisting of end pieces and side pieces jointed to the end pieces and also jointed intermediate their ends to fold inward toward each other so that the end pieces are brought close together, the parts having lateral flanges at their lower edges to provide extended surfaces which can be caused to adhere to the adhesive border, edge or margin of the sticky field of the fly paper, for the purpose of securing the holder and holding the fly paper in a flat condition, substantially as described.

4. A fly paper holder, consisting of a flexible jointed frame collapsible into a substantially flat condition and provided at the lower edges with laterally projecting flanges jointed to said side and end pieces, substantially as described.

5. A fly paper holder, consisting of end pieces 1 and side pieces 2 jointed to the extremities of the end pieces and also jointed intermediate their ends to fold inward toward each other, said side pieces being pro-

vided with laterally projecting flanges 6 joint-  
ed thereto and adapted to be turned substan-  
tially into the plane of the side pieces for col-  
lapsing the holder into a flat condition, sub-  
stantially as described.

5 6. A fly paper holder composed of the joint-  
ed, collapsible frame, and the center support  
composed of jointed strips having base flanges  
adapted to be applied to the sticky field of a

sheet of fly paper, substantially as and for the  
purpose described.

In testimony whereof I have hereunto set  
my hand and affixed my seal in presence of  
two subscribing witnesses.

JAY HUNGERFORD SMITH. [L. s.]

Witnesses:

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EMILY M. DECKER.