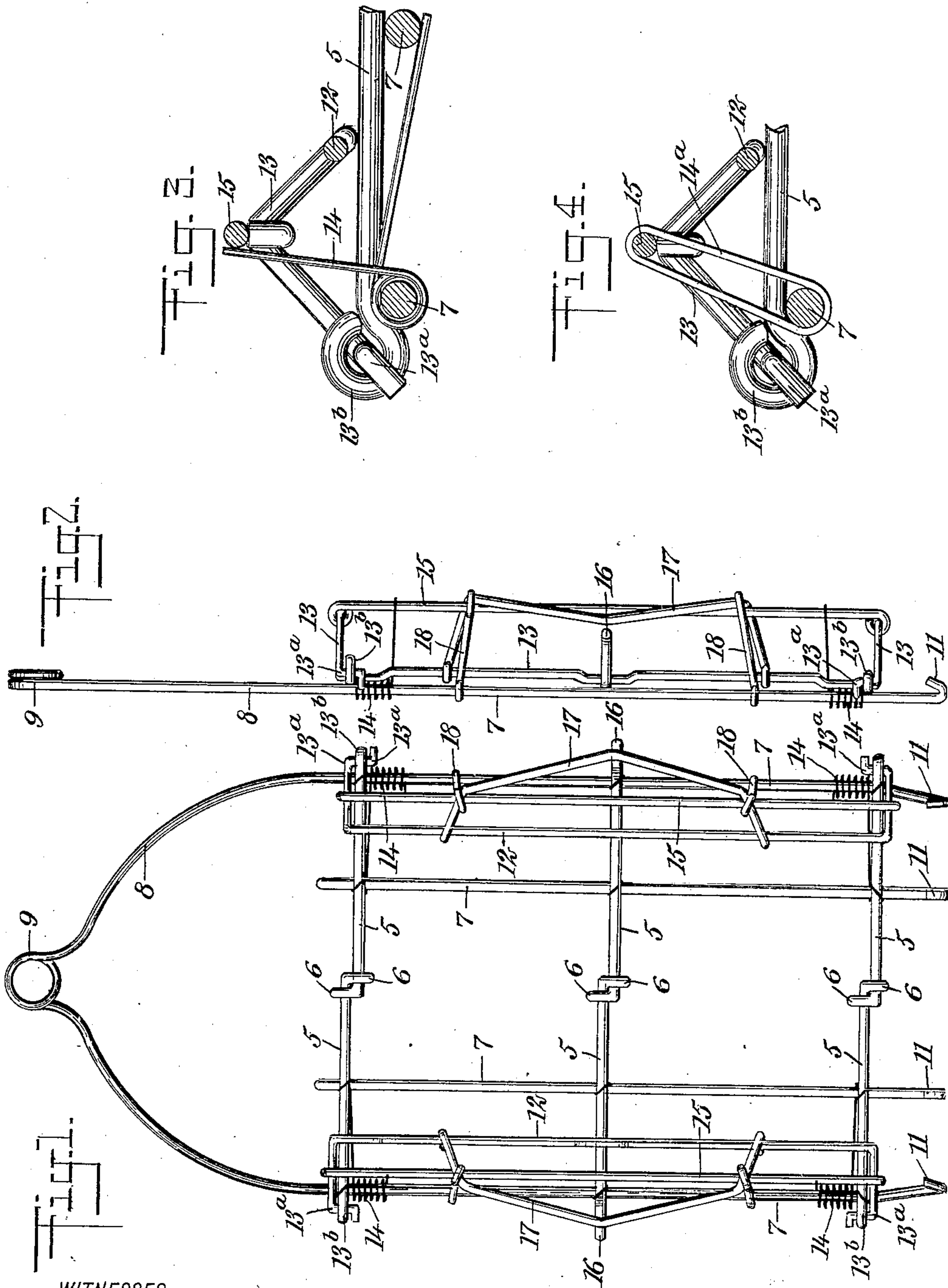


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 FLY PAPER HOLDER.
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923,502.

Patented June 1, 1909.



WITNESSES
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FLY-PAPER HOLDER.

No. 923,502.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed May 15, 1908. Serial No. 432,973.

To all whom it may concern:

Be it known that I, ROBERT E. FEE, a citizen of the United States, and a resident of Marion, in the county of Grant and State of Indiana, have invented a new and Improved Fly-Paper Holder, of which the following is a full, clear, and exact specification.

This invention is an improvement in holders for fly and other sticky papers of the character disclosed in Letters Patent No. 889,919, granted to me June 9, 1908.

The present invention has for its purpose to provide a paper holder constructed in two sections slidably connected together, with jaws for clamping the edge of the paper pivoted to the sections, and means normally tending to separate the sections, whereby the paper will be held under tension.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan of the holder when in its normal extended position; Fig. 2 is a side view of the same; Fig. 3 is a fragmentary transverse section on an enlarged scale; and Fig. 4 is a similar sectional view of a modified form of the invention.

The invention comprises a wire frame composed of two sections slidably connected together; this connection being effected by making the cross-wires 5, forming a part of said frame, in two pieces, each piece being provided with an eye 6, in embrace with the other piece, as clearly shown in Fig. 1. The frame further includes longitudinal wires 7 which are rigidly fixed in any suitable manner to the cross-wires 5 at their intersections. Two of the longitudinal wires 7, one in each section of the frame, are made by extending the ends of a bail or handle 8 which is provided with a central coil 9 operating as a spring to normally force the sections of the frame apart, and also serving as a means for suspending the holder on a nail or other device when not in use. The lower extremities of all of the wires 7 are bent to form hooks 11 for engaging the lower edge of the fly paper when the latter is seated within the frame, the hooks 11 of the outside wires 7 being turned slightly inwardly, as illustrated in Fig. 1.

The margin of the paper is secured at the sides of the frame by clamps, each being carried by one of the frame sections and comprising a longitudinal clamping wire 12 hav-

ing angularly bent portions or hooks 13 formed at opposite ends, the extremity of each hook being inwardly turned to form pivots 13^a, which are received or journaled in rings or eyes 13^b provided at the extremities of the outside cross-wires 5. Each of the outside longitudinal wires 7 carries helical springs 14 arranged adjacent to the outer wires 5, one end of each spring being suitably fixed to the frame as by passing it under one of the inner longitudinal wires 7, as shown, and the outer end of the spring pressing on a longitudinal wire 15, acting to normally force the clamping wires to the frame. The wires 15 serve to connect the intermediate or angularly bent portions of the hooks 13 together.

The intermediate cross-wire 5 of the frame is extended beyond the frame at opposite sides, and the extended portions of the wire offset to form hooks 16, each of said hooks being adapted to be engaged with a loop 17 having the opposite ends thereof bent into embrace with the clamping wire 12. The loops 17 are angularly turned over the longitudinal wires 15 and are connected thereto by short wires 18 which extend to the outer longitudinal wires 7, and operate not only to reinforce the clamping members, but prevent the loops from sliding longitudinally thereon.

As will be observed from Fig. 2, the position of the loops 17 is such that when the clamping wires are pressed to the frame by the springs 14, they are located slightly above the offset or hooked ends 16 of the intermediate cross-wire 5, whereby when the clamping wires are lifted against the tension of the springs, and the loops 15 engaged under the hooks 16, the clamps will be held in a retracted position.

When inserting the paper within the holder, the clamps are retracted and locked, and the fly paper passed under the hooks 11, after which the sections of the frame are sprung together against the tension of the bail until the margin of the paper at the opposite sides passes under the clamping wires. The loops 17 are then released, permitting the springs of the clamps to force the clamping wires into firm contact with the paper. The tension of the bail and the spring 9 will operate to separate the two sections of the frame and keep the paper stretched out under slight tension.

In Fig. 4 I have shown a slight modifica-

tion of the invention, which differs from the construction just described only in that the helical wire springs 14 are replaced by rubber bands 14^a, the bands being located similarly to the springs and connect the outer longitudinal wires 7 and the wires 15 of the clamps together.

The invention as shown and described while being the preferred construction of my improved holder may obviously be modified in numerous minor particulars, and I consider I am entitled to such changes as fall within the scope of the appended claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A wire fly paper holder having jaws at opposite sides for clamping the opposite edges of the paper, with certain of the wires of the holder having rings formed rigid therewith, and other wires of the holder having

offset portions engaging in the rings and pivotally connecting the jaws to the body of the holder.

2. A fly paper holder comprising a wire frame composed of longitudinal wires and cross wires connected together at their intersections, with certain of said cross wires made in two pieces adjustably connected together, dividing the frame into two sections, and provided with an eye at their outer ends, clamping wires having their ends offset and journaled in the eyes of the cross wires, and means normally forcing the clamping wires toward the cross wires.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT E. FEE.

Witnesses.

GEO. K. FINLEY,
W. W. FLEMING.