

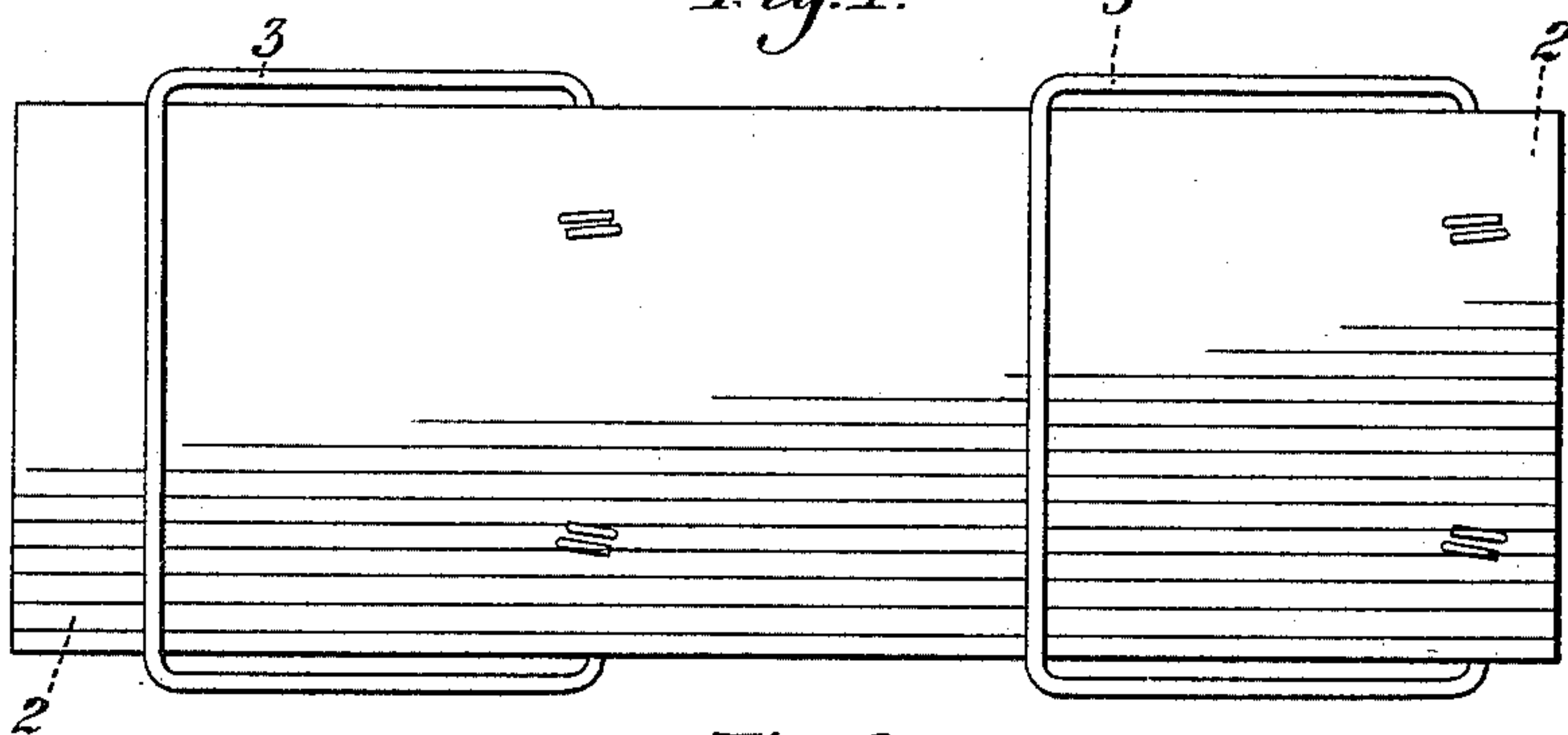
(No Model.)

W. A. GAY.  
BILL FILE.

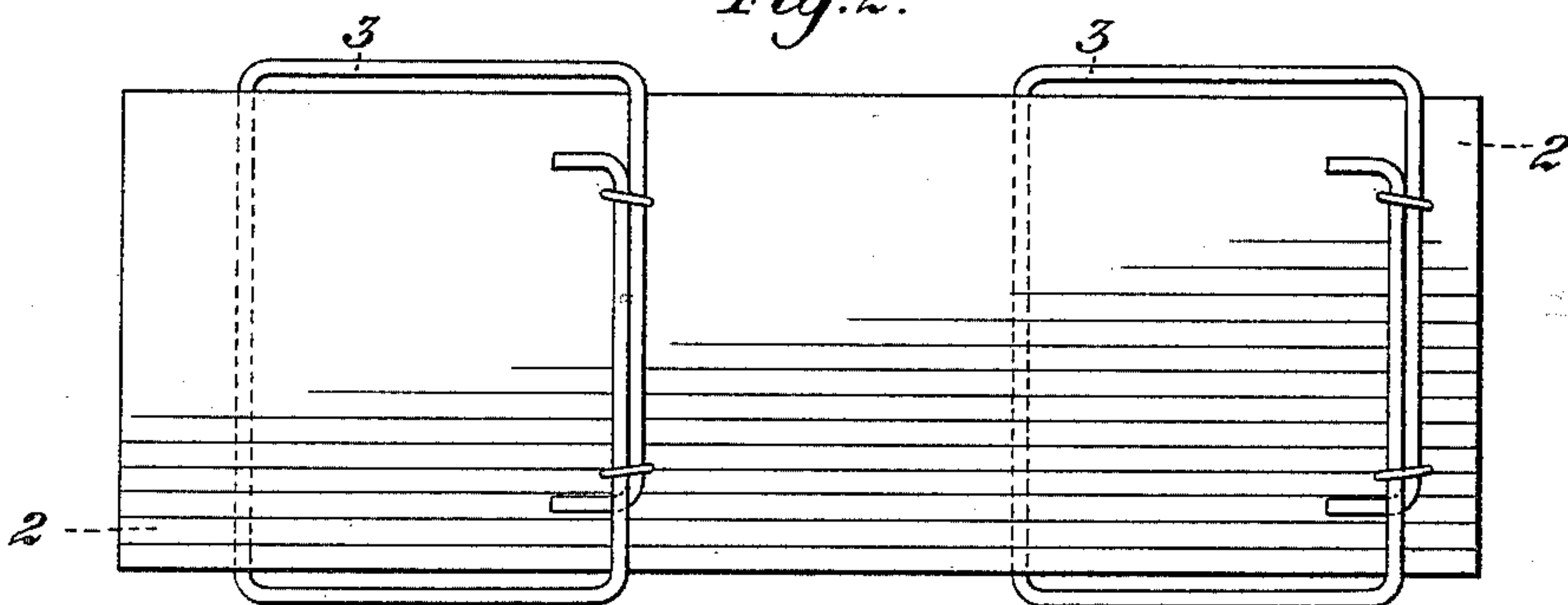
No. 462,431.

Patented Nov. 3, 1891.

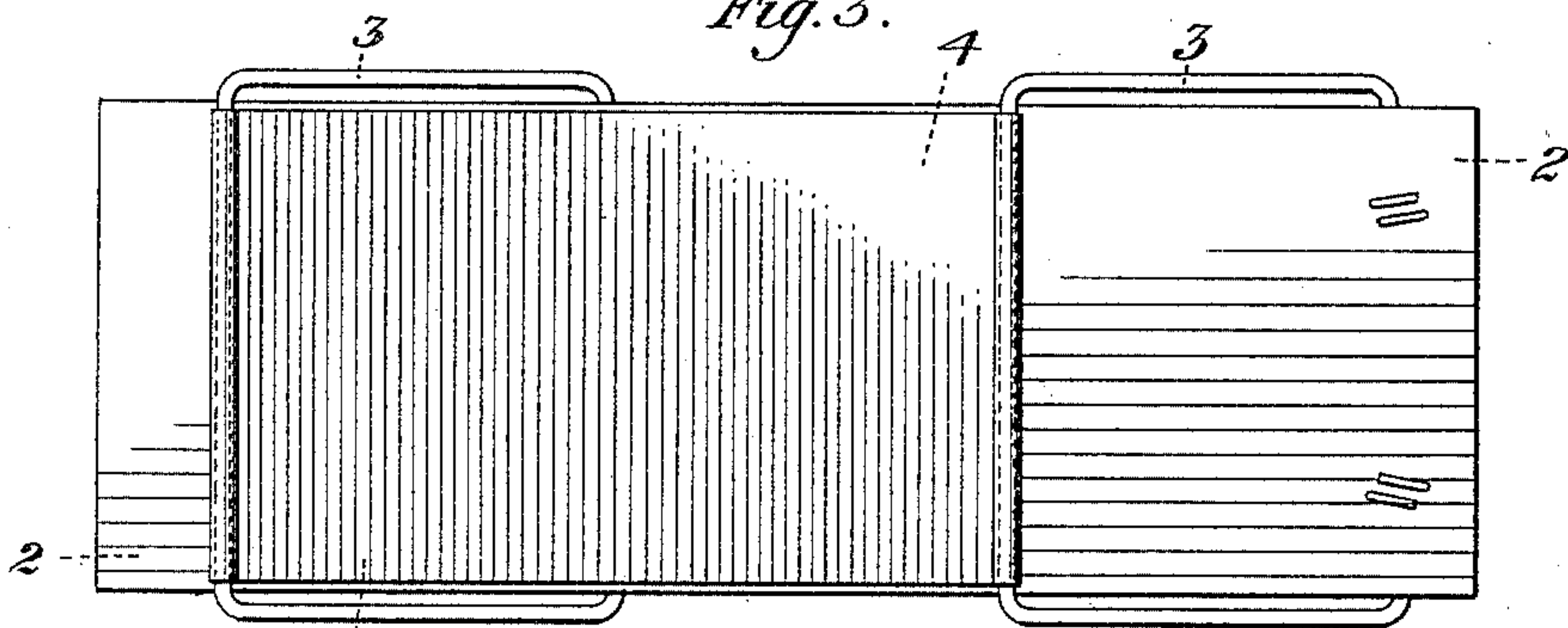
*Fig. 1.*



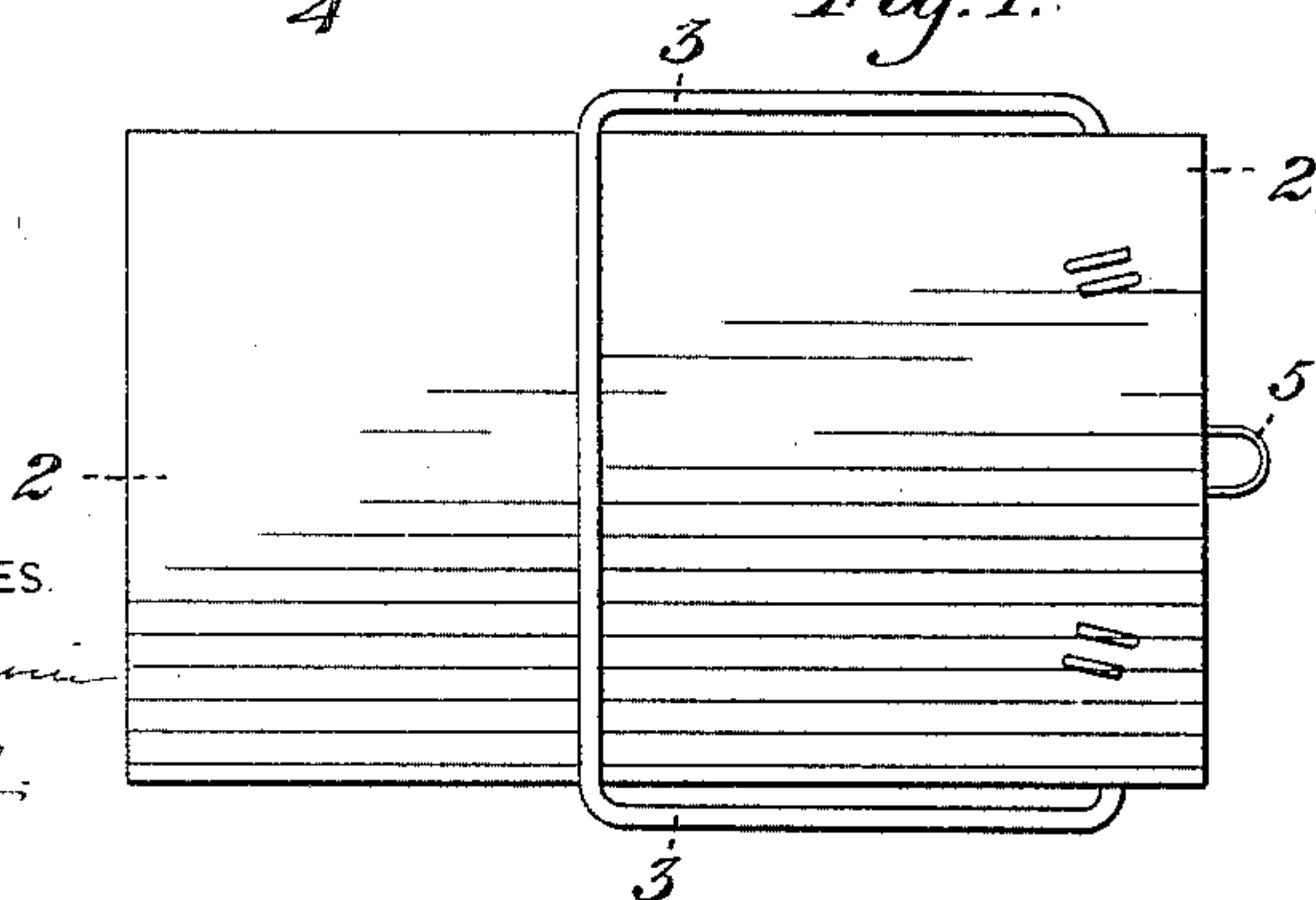
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



WITNESSES.

*W. J. Cornin*  
*H. L. Gill*

INVENTOR.

*William Alfred Gay*  
*by his attorneys*  
*W. B. Russell & Sons*

# UNITED STATES PATENT OFFICE.

WILLIAM ALFRED GAY, OF CORRY, PENNSYLVANIA.

## BILL-FILE.

SPECIFICATION forming part of Letters Patent No. 462,431, dated November 3, 1891.

Application filed July 30, 1891. Serial No. 401,119. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM ALFRED GAY, of Corry, in the county of Erie and State of Pennsylvania, have invented a new and useful Improvement in Bill-Files, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top view of my improved bill-file. Fig. 2 is a bottom plan view of the same, showing the manner of fastening the springs. Fig. 3 is a top plan view of a modification of my device, and Fig. 4 is a similar view of a second modification intended for use as a newspaper-scrap holder.

My invention relates to that class of bill-files in which a torsion-spring is employed to hold the papers firmly to the face of the file; and it consists in improved means for fastening these springs, as well as in their arrangement with relation to each other and to the body of the file.

In the drawings, in which like symbols of reference indicate similar parts, 2 indicates the body of the file, composed of wood or other suitable material, and 3 the springs, which consist of wires each of which crosses the face of the file, while its two end portions are extended past each other nearly across the back of the file and are bent at their tips into lugs extending at an angle to the end portions. These wires are held in place by staples driven into the back of the file and inclosing the two adjacent end portions, the lugs upon the wires being forced into the material forming the body of the file, and the staples, if of sufficient length, being clinched upon the face portion of the file.

In the form of Fig. 3 a connecting-piece 4 is provided, having its ends bent around the wires 3, so that on lifting one wire the other rises simultaneously therewith. This connecting-piece may be made of metal, wood, or other suitable material, and may be in the form of a tablet, a mirror, a reference-page, or may be simply of an ornamental character.

In the form of Fig. 4 a single wire is used and the body of the file shortened, a staple 5 being provided for hanging this holder in any convenient location. This staple may be used upon any of the forms shown.

The advantages of my construction are obvious. By extending the wires nearly across the back of the file a longitudinal spring is obtained, so that there is no danger of permanently bending the wire and rendering it useless when raised from the face of the file for the insertion of the papers. The angled lugs form a firm base or bearing for the spring action, while the staples hold the wires in place, allowing them to twist therein.

The parts are simple and few in number, making a cheap and efficient file.

Many variations in the form of the parts, the material used, the fasteners employed, &c., may be made without departing from my invention.

What I claim is—

1. A bill-file comprising a file-body, a wire spring crossing the face of the body and having its ends extended past each other upon the back of the file, and staples inclosing such end portions, substantially as and for the purposes described.

2. A bill-file comprising a file-body, a wire spring crossing the face of the file-body and having its ends extended past each other upon the back of the body, such ends having angled lugs thereon and being fastened to the file-body, substantially as and for the purposes described.

3. A bill-file comprising a file-body and wire springs upon the face thereof, the arms of such springs extending in the same direction, substantially as and for the purposes described.

4. A bill-file comprising a file-body, wire springs crossing the face thereof, and a connecting-piece joining the springs, substantially as and for the purposes described.

5. A bill-file comprising a file-body, a wire spring crossing its face, and a hanger attached to one end thereof, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 25th day of July, A. D. 1891.

WM. ALFRED GAY.

Witnesses:

L. W. GAY,  
A. F. BOLE.