

No. 887,011.

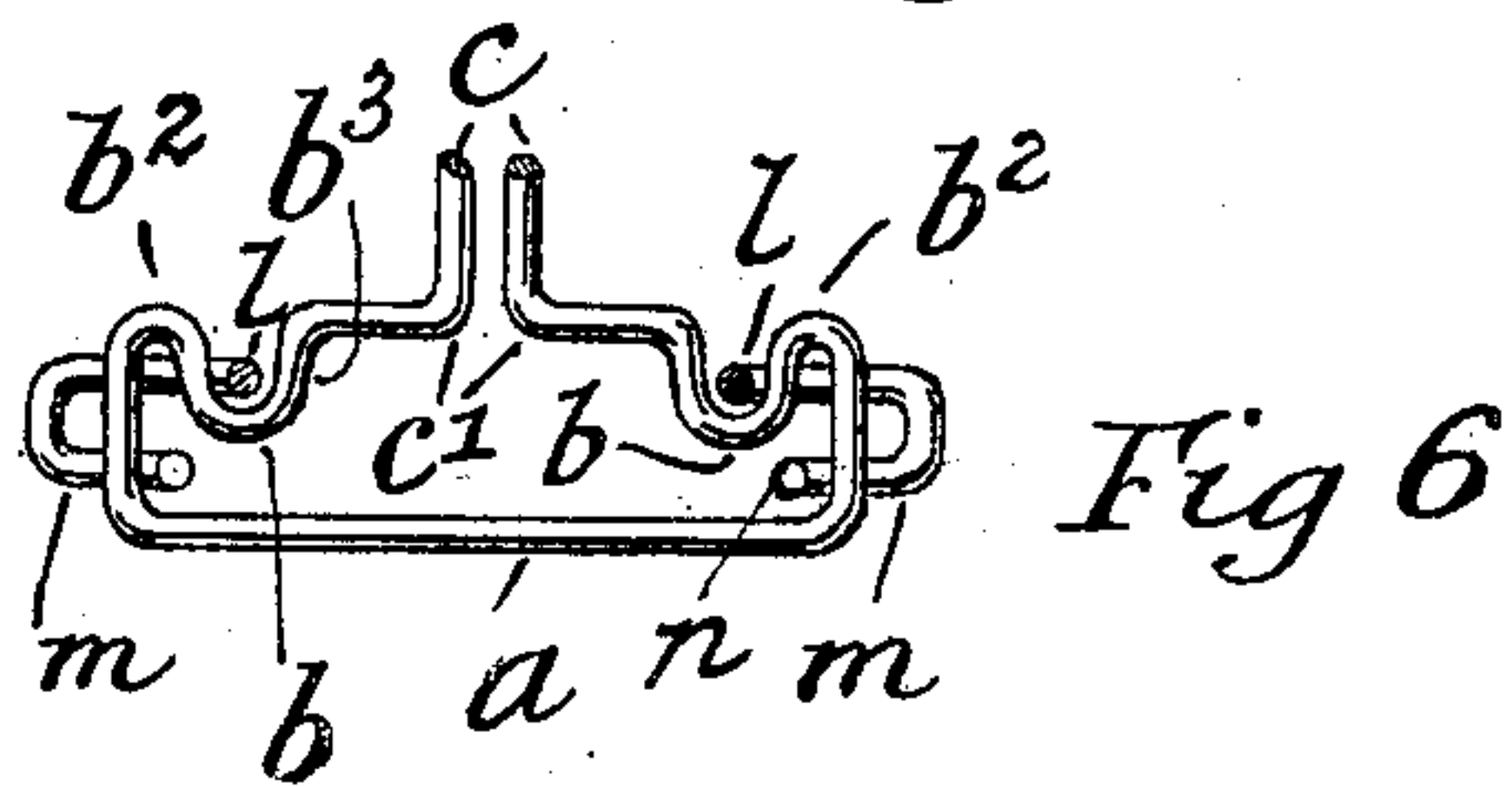
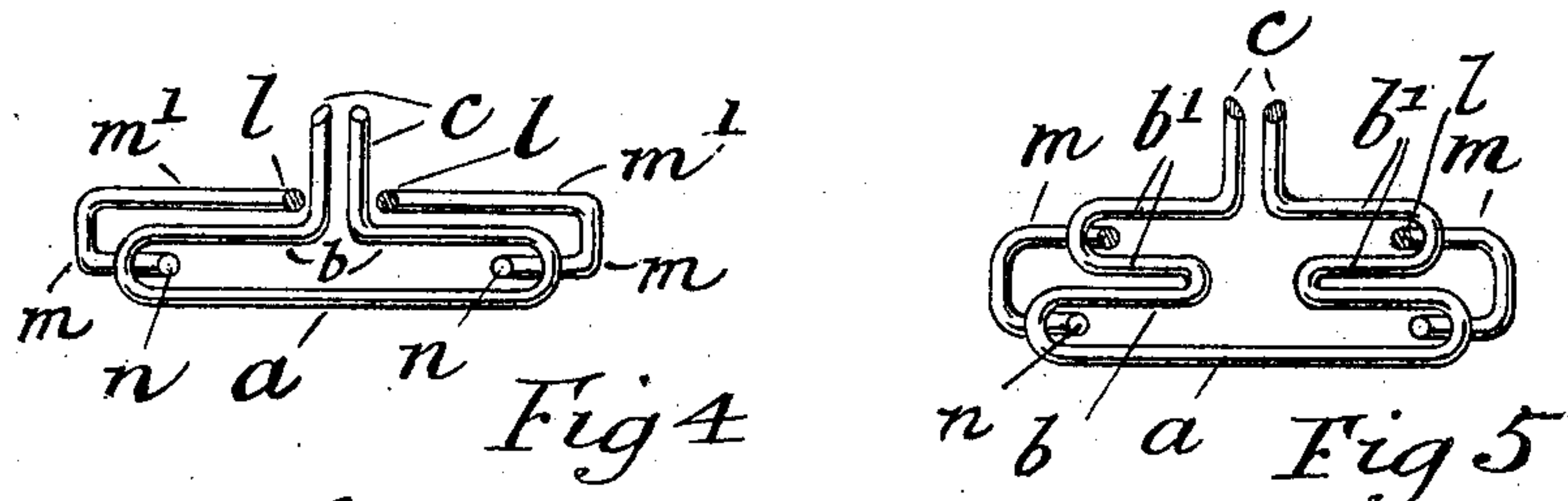
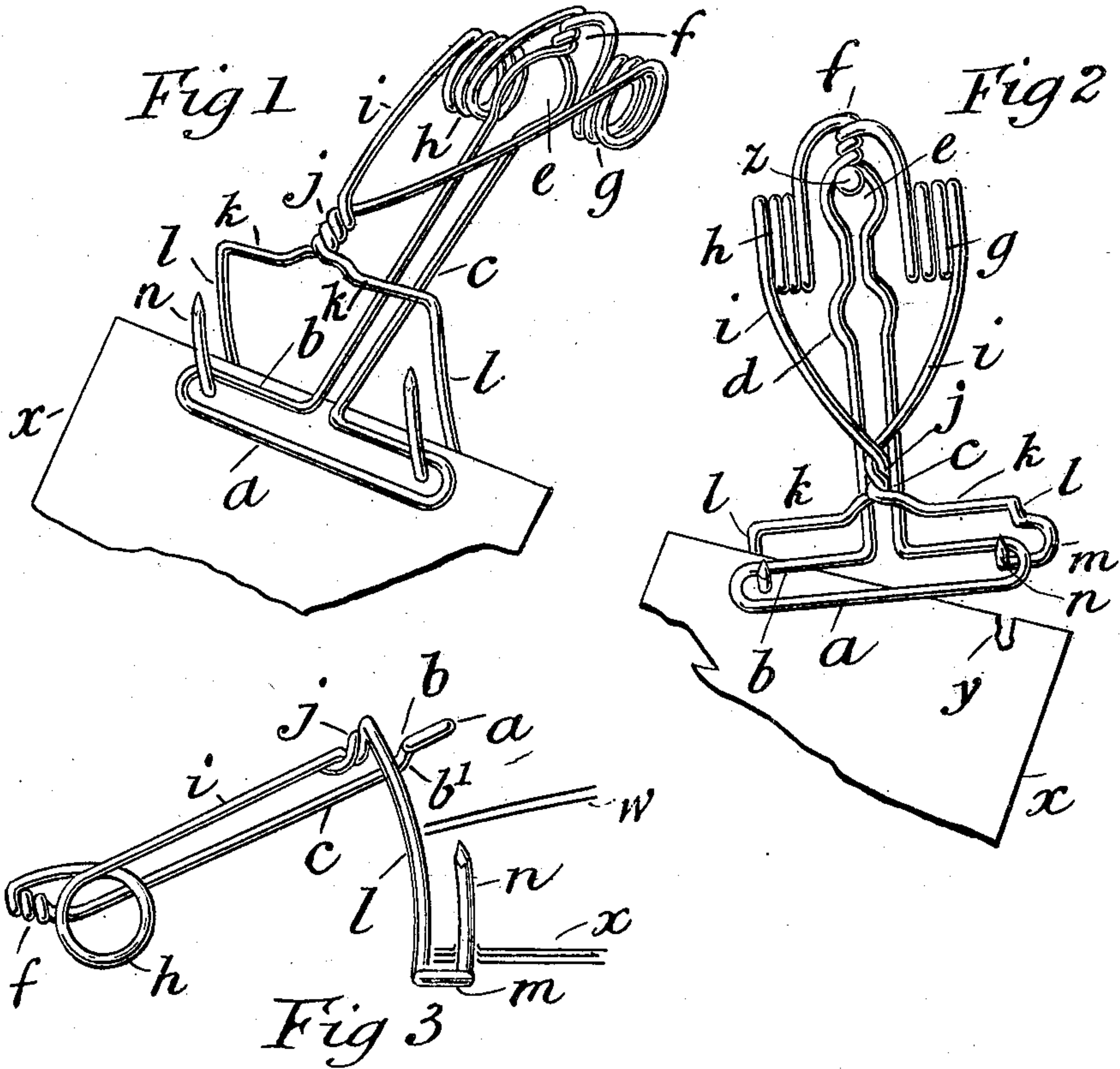
PATENTED MAY 5, 1908.

J. J. NICHOLSON, DEC'D.

S. A. NICHOLSON, ADMINISTRATRIX.

DOCUMENT FILE AND ASSEMBLING MEANS.

APPLICATION FILED NOV. 30, 1907.



Witnesses:  
J. H. Fitts  
J. R. Fitts

Inventor:  
Sarah Ann Nicholson  
Admin. Estate of Joseph J. Nicholson  
deceased  
By William, J. Witherston  
per atty.



# UNITED STATES PATENT OFFICE.

SARAH ANN NICHOLSON, OF SNAKE VALLEY, VICTORIA, AUSTRALIA, ADMINISTRATRIX OF JOSEPH JOSHUA NICHOLSON, DECEASED, ASSIGNOR TO HUBERT ALFRED ADAMS, OF LINTON, AUSTRALIA.

## DOCUMENT FILE AND ASSEMBLING MEANS.

No. 887,011.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed November 30, 1907. Serial No. 404,588.

*To all whom it may concern:*

Be it known that JOSEPH JOSHUA NICHOLSON, late a subject of the King of Great Britain and Ireland, &c., and a resident of Snake Valley, in the State of Victoria, Commonwealth of Australia, deceased, did invent certain new and useful Improvements in Document Files and Assembling Means; and I, SARAH ANN NICHOLSON, a subject of the King of Great Britain and Ireland, &c., residing at Snake Valley, in the State of Victoria, Commonwealth of Australia aforesaid, administratrix of the estate of the said JOSEPH JOSHUA NICHOLSON, deceased, do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to document and other files and assembling means, of that class in which two spikes or members pierce or pass through the matter to be filed, which is pressed on to the spikes, and clamped by a spring clamping member passing over the spikes.

The objects of this invention are to provide an article of manufacture of the class above-mentioned which can be made wholly or mainly of one piece of wire, and which will be cheap, strong and durable, will fix firmly together a number of sheets of material or articles by punching the sheets or the like and pushing them down on the spikes or receiving members provided.

The file can be hung from a nail, or rod; fixed on any suitable base; or allowed to rest on a table or desk. Provision is made for preventing the points of spikes from causing damage; thus the file frame has a fork with legs, the tops of which are higher than the said points. Provision is also made to prevent distortion of the file.

The punching device may be as powerful as desired; an ordinary size suffices to perforate and clamp down a card as used in what are known as office card systems.

The device enables papers and articles to be pierced close to an edge, and to be held squarely, or in correct adjustment. Any sheets filed may be readily torn away if desired without materially disfiguring them.

The invention is illustrated in the accompanying drawings in which

Figure 1 is a perspective view of a file holding a sheet of paper. Fig. 2 is a front view of a file hung upon a nail, and holding a sheet of paper which has been partly torn away. Fig. 3 is a side view of a file compressed out of its normal position to allow one or more sheets to be added or removed. Figs. 4 to 6 are plan views of the clamp, the outer end of the tongue, the spikes,— and the main limbs of the fork are shown in transverse section.

Various modifications may be used within the scope of the claims, and sundry additions obviously useful in conjunction with the device, which is not limited to the proportions and sizes illustrated. For example to allow papers to be kept together on being removed from the file, a tube or tubes closely fitting one or both spikes could be placed thereon. These tubes could have flanged bases; papers filed on the tube or tubes, could be removed with the latter as a whole if desired.

In the drawings herewith *a* is the front and *b* the rear of a punch or clamp at the outer end of a tongue *c* which has one or more openings or parts as *d*, *e*, to allow of hanging the file by a nail *z* or otherwise locating it. The tongue sides are tied or fastened together, in any suitable place or places, as at *f* by twisting and are continued to form coils *g*, *h*, and arms *i* extending forwardly from the coils, the arms being tied or fastened together in any suitable manner, as at *j* by twisting or by adding a sleeve or band. The wire or material is continued having in some cases spreading limbs *k*, and having legs *l* forming a fork which are suitably curved when the purpose and size of the file require it. The wire or material is further arranged or bent to form a base, as at *m*, in some cases there being spreading limbs *m*<sup>1</sup>, and finally the ends are directed upward, and finished as spikes *n* of any suitable curved or other form.

Sheets of filed paper are marked *x*. Sheets about to be filed (by the downward spring force of the clamp *a*, *b*) are marked *w*. The points of the spikes are as shown or otherwise suited to the purpose in view. Limbs *l* are at a predetermined distance back from the spikes, so that by placing each sheet head against the limbs before allowing the clamp to spring downward, the sheets will be easily assembled without making holes



of larger size than the spike diameter. One hole after it has been broken away from a spike is marked *y*. The curve in limbs *l* and spikes *n* is struck from the center on which the parts move when they return from the position of Fig. 3 into that of Fig. 1. Bases *m* act as supports under the matter filed, and may vary in size. The proximity of upper arms *i* to one another as at *j*, and of the lower ones as at *c*, allows the file to be grasped comfortably between the thumb and fore finger of the left hand while the sheets are being attended to with the right hand. An upper or lower connecting plate or both could be added and would receive the said finger pressure.

In order to prevent distortion, and to insure good working the legs *l* may advantageously be prevented from being unduly closed towards one another, or unduly forced apart. In Fig. 4 these legs are brought close enough to just inclose tongue *c*, which thus prevents the legs being closed in. Limbs *l* are tied, fastened or twisted together under tongue *c* in some cases.

In the preferred construction clamp *a*, *b*, is provided with bends or means to restrain limbs *l*, which may act as guides when the clamp is moved. These bends are marked *b*<sup>1</sup>, *b*<sup>2</sup>, *b*<sup>3</sup>.

Fig. 6 is an excellent form though details may be varied. For example part *a* is not always made straight and corners *c*<sup>1</sup> are in some cases set nearer to part *a*, to assist in pressing the sheets. The distance between the spikes may vary from that shown (relatively to limbs *l*.)

At *b*<sup>1</sup>, Fig. 3, there is in some cases an upward bend to raise clamp *a* as high as desired, so that there shall be ample space producible over spikes *n* to allow of proper use of the file. In small files part *n*, or *n* and *l*, may be straight in side view.

What is claimed as the invention, and desired to be secured by Letters Patent of the United States is:—

1. A file for papers comprising a clamp having a front portion *a*, and a back portion *b*; a tongue composed of two parts having an opening *c*, therebetween and suitably twisted together; spring arms provided with the coils *h* and *g*, and suitably twisted together; spreading limbs; legs extending from said limbs; bases extending from said legs; and spikes extending from said bases between

said front and back portions, substantially as described.

2. A file for papers comprising a clamp having a front portion *a*, and a back portion *b*; a tongue composed of two parts having an opening *c*, therebetween and suitably twisted together; spring arms provided with the coils *h* and *g*, and suitably twisted together; spreading limbs; legs suitably curved extending from said limbs; bases extending from said legs; and spikes extending from said bases between said front and back portions, substantially as described.

3. A file for papers comprising a clamp having a front portion *a*, and a back portion *b* provided with a bend; a tongue composed of two parts suitably twisted together; spring arms provided with the coils *h* and *g*, and suitably twisted together; spreading limbs; legs extending from said limbs; bases extending from said legs; and spikes extending from said bases between said front and back portions, substantially as described.

4. A file for papers comprising a clamp having a front portion *a*, and a back portion *b* provided with a bend; a tongue composed of two parts having an opening *c*, therebetween and suitably twisted together; spring arms provided with the coils *h* and *g*, and suitably twisted together; spreading limbs; legs extending from said limbs; bases extending from said legs; and spikes extending from said bases between said front and back portions, substantially as described.

5. A file for papers comprising a clamp having a front portion *a* and a back portion *b* provided with a bend; a tongue composed of two parts having an opening *c*, therebetween and suitably twisted together; spring arms provided with the coils *h* and *g*, and suitably twisted together; spreading limbs; legs suitably curved extending from said limbs; bases extending from said legs; and spikes extending from said bases between said front and back portions, substantially as described.

In testimony whereof, I affix my signature in presence of two witnesses.

SARAH ANN NICHOLSON,  
*Administratrix of the estate of Joseph Joshua Nicholson, deceased.*

Witnesses:

PHILIP WILLIAM HUST,  
JAMES FURNESS.