Dec. 29, 1925. 1,567,374

J. A. KEENE

DEVICE FOR PERFORATING THE LEAVES OF LOOSE LEAF BOOKS AND OTHER PAPERS TO BE FILED

Filed June 30, 1924

Fig.1.



Fig.2.

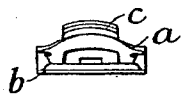


Fig.3.

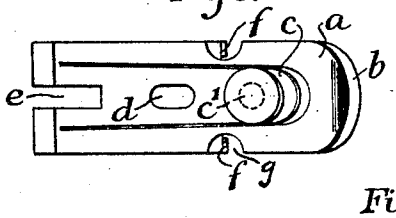


Fig.4.

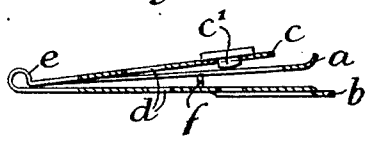
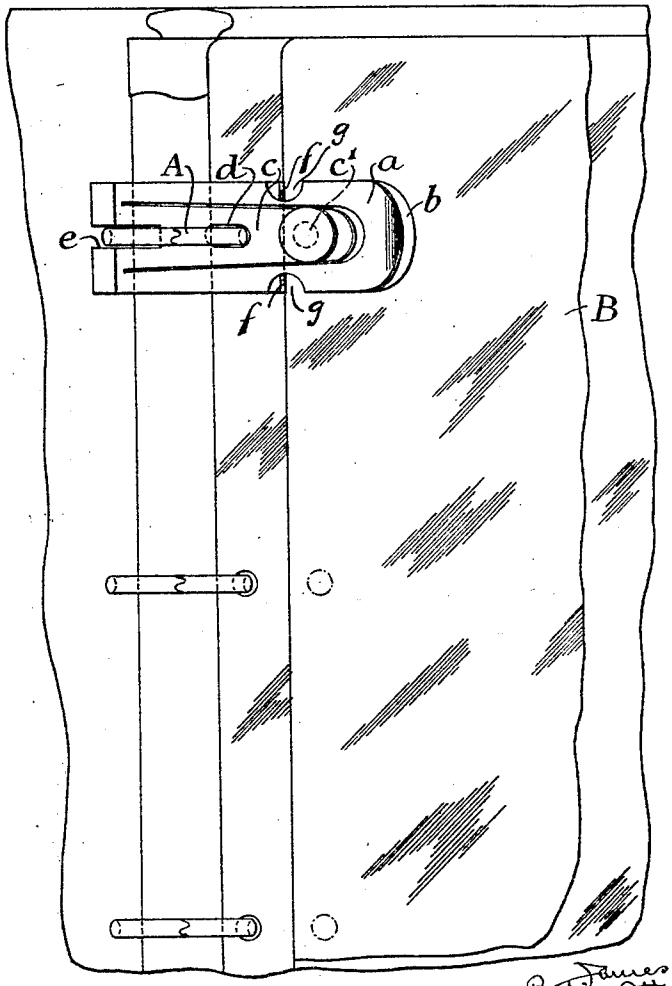


Fig.5.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR PERFORATING THE LEAVES OF LOOSE-LEAF BOOKS AND OTHER PAPERS TO BE FILED.

Application filed June 30, 1924. Serial No. 723,136.

To all whom it may concern:

Be it known that I, JAMES ADAMS KEENE, a subject of the King of Great Britain, residing at 27 Cursitor Street, London, England, have invented a new and useful Improved Device for Perforating the Leaves of Loose-Leaf Books and Other Papers to be Filed, of which the following is a specification.

This invention relates to a device for perforating the leaves of loose-leaf books and other papers to be filed on filing wires supported at definite distances apart, and which are of curved or ring form divided so that they can be separated to receive the leaves or papers when perforated, the said device being of the type in which the edge of the leaf or sheet to be perforated is placed between a pair of metal strips hinged or folded together, the said strips having aligned holes for the passage of a punch carried on a spring plate integral with the strip or strips and actuated by hand to effect the punching of a single hole in the leaf or sheet.

With devices of the described type it is usual, in order that the holes in the leaves or sheets shall be made at the same distance apart as the filing wires, to provide the said devices each with a slotted extension at one end designed to be threaded on to the foremost member of each filing wire that the hole about to be punched is designed to engage with. It is found, however, that, after one hole has been formed in the leaf or sheet there is a possibility of the next hole not being formed at the correct distance from the said first-mentioned hole owing to the fact that the perforating device is liable to turn slightly around the filing wire with which it is engaged.

Now, the object of the present invention is to obviate this disadvantage and to this end I provide the device with an additional opening to engage the back portion of each filing wire so that the device cannot turn relatively to the latter.

In a suitable arrangement for carrying out the invention a hole is formed in the pair of metal strips and the spring plate carrying the punch, which hole is threaded on to the front portion of the filing wire, and the folded or hinged end of the device most remote from the punch is formed with a parallel-sided notch to engage the back portion of the filing wire. A stop to limit the extent to which the edge of the leaf or sheet can be inserted between the strips is advantageously made by stamping up two portions or lugs on the lower strip of the device, which lugs enter corresponding notches in the upper strip thereof, the said lugs being located at a point between the punch and the hole to receive the front portion of the filing wire.

To enable the invention to be fully understood I will describe it by reference to the accompanying drawing, in which:—

Figure 1 is a side elevation of a device made in accordance with the invention.

Figure 2 is an end view thereof.

Figure 3 is a plan of the device.

Figure 4 is a longitudinal section thereof, and

Figure 5 is a plan view showing the device in use.

a and *b* are, respectively, the upper and lower metal leaf-embracing strips, *c* is the spring strip carrying the punch c^1 and made integral with the upper strip *a*. *d* is the hole in the strips *b* and *c* through which the front end of the filing wire A is passed and *e* is the notch or cut-away portion formed in all three strips, and designed to engage the back of the filing wire A as shewn in Figure 5.

As will be understood the filing wire A is opened to permit of its engagement with the hole *d* and notch *e*. A sheet of paper B is then inserted between the strips *a* and *b* of the punch as shewn. To regulate or limit the distance to which the sheet can be inserted, lugs *f* are stamped up in either side of the lower strip *b* which act as a stop to prevent the sheet of paper being inserted too far, the said lugs being located at a point between the punch c^1 and the hole *d*, and extending upwardly through notches or recesses, *g*, formed in the outer edges of strip *a*.

Claims—

1. A device of the kind described, comprising a pair of leaf-embracing strips connected together at one end, a spring strip connected with said pair of strips, and provided with a punch, said device being provided with registering cutaway portions at separated points to engage the filing wire

of a loose leaf book, and hold the said device from turning while sheets are being punched therefor.

2. A device of the kind described, comprising a pair of leaf-embracing strips connected together at one end, and a spring strip connected with said pair of strips and provided with a punch, said strips being formed integrally and provided at a distance from their connected edges with registering apertures to receive one part of the filing wire, said strips being provided at their connected edges with an inwardly extending notch to engage another part of the filing wire of a loose leaf book, and hold the device from turning with respect to the filing wire while sheets are being punched therefor.

JAMES ADAMS KEENE.