No. 717,787. PATENTED JAN. 6, 1903.

H. G. WHITMORE.

PAPER FILE AND BINDER.

APPLICATION FILED APR. 21, 1902.

NO MODEL.

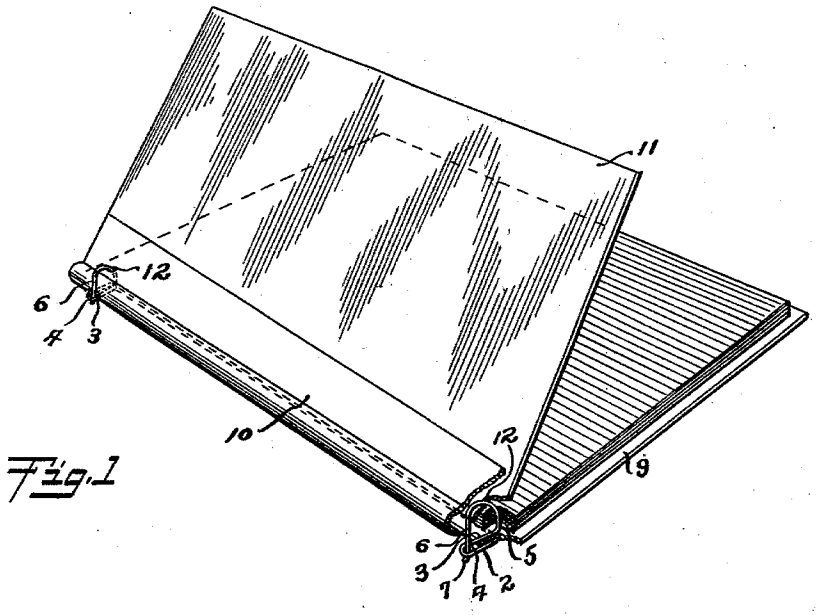


Fig. 1

Fig. 3.

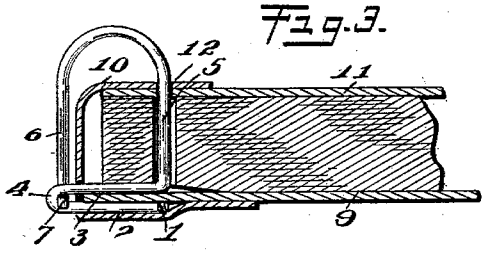


Fig. 2.

WITNESSES:

D. O. Barnell.

R. D. Butler.

Horace G. Whitmore

INVENTOR

BY

Howard J. Corrigill.

his ATTORNEY.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HORACE G. WHITMORE, OF OMAHA, NEBRASKA.

PAPER FILE AND BINDER.

SPECIFICATION forming part of Letters Patent No. 717,787, dated January 6, 1903.

Application filed April 21, 1902. Serial No. 104,069. (No model.)

To all whom it may concern:

Be it known that I, HORACE G. WHITMORE, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Paper Files and Binders; and I 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.

My invention relates to paper files and binders wherein it is desired to file papers of any kind in regular order and have the same accessible and removable at any time, but securely held against accidental displacement.

The invention consists in the novel shaping of a wire which forms the essential part of my file and binder and the manner of placing the same upon the back board of the file proper.

It consists also in certain other novel combinations and arrangements of parts, as will be more fully described hereinafter and as shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved file and binder, portions being broken away to more clearly show the parts. Fig. 2 is a perspective view of the wire used in the binder, and Fig. 3 is a transverse sectional view of a portion of the binder on a plane cutting through the rear edge of the backing and cover and through the binding-strip alongside one of the wire loops.

The wire mentioned consists of a straight central portion 1, the ends thereof being bent at substantially right angles thereto and again bent, forming, with the return portions 3, small loops 4. From the ends of the return-bends 3 are upwardly-extending portions 5, which curve over backwardly and have downwardly-extending ends 6, which are slightly bent at their points 7 and hook normally into the loops 4. On long files a hook 8 is formed at the central part of the straight portion 1, as shown in Fig. 2. On shorter files this hook may be omitted, while on files of extra length two or more of said hooks may be formed at suitable intervals along the straight wire portion 1. The use of this wire in forming a file is shown in Figs. 1 and 3. A piece of cardboard or other suitable material 9 of the proper size is inserted in the hook 8 and between the ends 2 of the wire and return-bends 3 thereof, which are so formed that the board will be held between the same with a slight spring tension. A binding-strip 10, preferably of some pliable material, such as soft leather, is then pasted to the backing 9, so that said binding-strip covers the straight portions 1 of the wire, a part of the bent ends 2, and the lower part of the hook 8, thus holding the wire securely to the backing.

It will be noted that the loops 4 extend slightly beyond the rear edge of the backing and that the return-bends 3 and loop formed by the upright portions 5 and 6 are above the backing. The extending edge of the binding-strip 10 has small holes made therein, through which the loops 4 may extend. A cover 11 is pasted to the binding-strip and small holes made therein, through which the ends 6 are passed by unhooking the curved points 7 from the loops 4, as shown at one end of the wire in Fig. 2, then passing said points through said holes 12 of the cover, and again hooking said points in the loops 4.

In using the file thus formed the sheets to be inserted are perforated at points corresponding with the position of the loops formed by the wire portions 5 and 6, the curved points 7 are unhooked from the loops 4, and the cover 11 is turned backward and detached from the upright wire portions 6. The sheets are then slipped onto the loops formed by the wire portions 5 and 6, and the cover 11 is replaced as described.

If desired for use as a temporary binder or file, the cover 11 may be dispensed with, in which case the binding-strip need not extend beyond the rear edge of the backing.

For some purposes the backing 9 may be omitted and the papers placed on the loops formed by the wire portions 5 and 6 in the manner described, in which case the hook may be used to hang up the file, which, in this instance, will consist of the wire member only.

From the foregoing it may be observed that the invention provides a binder, simple and economical of construction, upon which papers may be placed temporarily or perma-

nently and securely held, and while I have simply described the construction of the various parts of the device it will be obvious to those skilled in the art that some of the parts may be changed in construction or dimensions without departing from the spirit or scope of the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A binder or file for sheets of paper, comprising a straight portion, arms bent at substantially right angles formed at the ends of the straight portions, return-bends substantially parallel with said arms, and reaching back to the straight portion, and loops consisting of portions bent upwardly from the inner ends of the return-bends and curved rearwardly and then downwardly, substantially as described.

2. A binder or file for sheets of paper, comprising a straight portion, arms at substantially right angles formed at the ends of the straight portions, return-bends substantially parallel with said arms and reaching back to the straight portion, loops consisting of portions bent upwardly from the inner ends of said return-bends and curved rearwardly then downwardly, and hooks formed in the straight portions with their members substantially parallel with the bent arms and return-bends, substantially as described.

3. A paper file or binder having a suitable backing and a wire member comprising a straight portion, annular arms and return-bends engaging and clamping the edge of said backing, and loops formed integral with the said wire and return-bends, said loops extending above the edge of the backing and comprising a portion bent upwardly, rearwardly and downwardly from the inner end of the return-bend adjacent to the straight portion of the wire, substantially as described.

4. A paper file or binder comprising a suitable backing, a straight wire portion having its ends bent at substantially right angles therewith and returned thereto, loops integral with said wire and lying in a plane perpendicular thereto, and one or more hooks formed on said straight wire portion, substantially as described.

5. A file or binder for sheets of paper, comprising a substantially straight wire portion, arms integral with said straight portion bent at substantially right angles therewith and returned thereto, loops lying in a plane parallel to the said arms, and curved ends on said loops adapted to hook into the said arms, substantially as described.

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

HORACE G. WHITMORE.

Witnesses:
D. O. BARNELL,
JNO. T. BURK.