July 3, 1923. 1,460,499

F. R. PLUMB

CONTAINER FOR FILES

Filed May 28, 1921

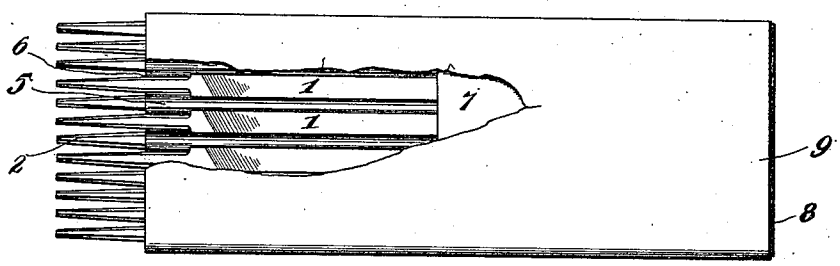


Fig. 1.

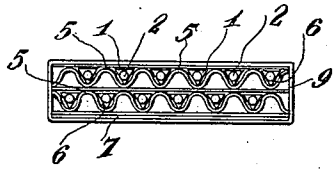


Fig. 2.

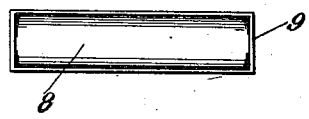


Fig. 3.

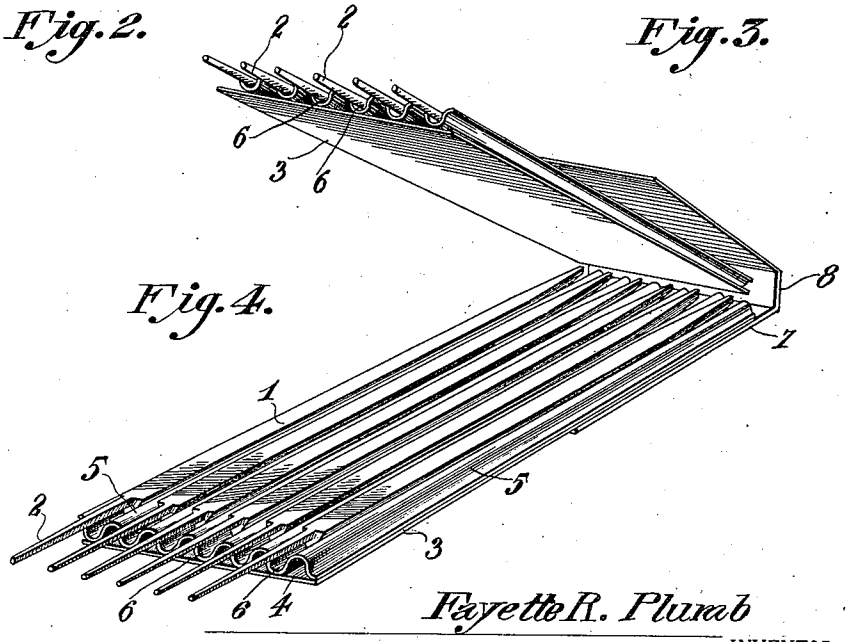


Fig. 4.

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UNITED STATES PATENT OFFICE.

FAYETTE RUMSEY PLUMB, OF PHILADELPHIA, PENNSYLVANIA.

CONTAINER FOR FILES.

Application filed May 28, 1921. Serial No. 473,299.

To all whom it may concern:

Be it known that I, FAYETTE R. PLUMB, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Containers for Files; 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.

This invention relates to a package of files, or similar instruments having sharp or fragile edges, which it is desired to protect from injury by contact with each other when withdrawing one or more instruments from the package. The invention consists in a package of saw files or the like, comprising one dozen files, more or less, arranged in layers, one superposed upon the other, the files of the lower layer resting in the grooves of a grooved plate that has a flat under surface, and the files of the upper layer lying in the grooves of a similar plate the flat under surface of which rests upon the grooved face of the said first named plate; a folder enclosing one end of the package formed of the plates and files, and an open-ended sheath surrounding the whole.

In the accompanying drawings in which similar reference characters designate like parts:

Figure 1 is a plan view of a package of files made according to this invention with a portion of the exterior wrapper broken away;

Fig. 2 is a front end view of the parts shown in Fig. 1, looking at the tang ends of the files in the package;

Fig. 3 is a rear end elevation of the package shown in Fig. 1, showing the bight of the folder that closes the rear end of the package and prevents the files from slipping therefrom, and

Fig. 4 is a perspective view of parts of the package separated to more clearly disclose their relation.

In said drawings the numeral 1 designates triangular saw files, each having a tang 2. A plate of corrugated paper board is shown at 3. This paper board plate is of usual and well known construction, comprising a flat sheet 4 and a sinuous sheet 5 secured thereto. The said sinuous sheet 5 provides parallel grooves 6 separated by corresponding ridges and in said grooves 6 the files 1 are laid in order to form one layer of the package, with the tangs 2 overhanging or projecting beyond the said corrugated sheet at one end, the points of the files resting even with the other end. In completing a package, two of said corrugated plates, properly filled with its quota of files, are arranged one on top of the other, corrugated side up, so that the files in one layer will be separated from the files in the other layer by the flat sheet 3 as well as by the sinuous sheet 5, the said flat sheet resting on the ridges of the under plate forming elongated sockets of substantially triangular cross section well adapted to retain three-cornered saw files in place. After assembling two or more of said corrugated plates or strips, each with its quota of files, a strip of strong fabric 7 such as heavy paper, is folded over one end of the superposed plates as indicated in Fig. 4. The looped portion or bight 8 of said folder 7 prevents the points of the files from being displaced longitudinally. A stout envelope or sheath 9, having both ends open, is then telescoped over the package confining the two layers of corrugated board with the contained files so that the files cannot move with respect to each other side-ways or end-ways point foremost, since the said envelope 9 confines the folded strip 7 between it and the two file containing layers; or the envelope may be wrapped about the package and cemented. It is intended that the sheath or envelope 9 shall completely cover the corrugated board longitudinally and the two parallel plies of the folder 8 exposing, however, the looped portion of the folder over the points of the files, and exposing the projecting tangs of the files at the opposite end so that any file may be readily withdrawn endwise from the package without removing the envelope or opening the package, and without the least danger of the delicate edges of the file contacting with the edges of adjacent files and ruining the edges of one or both for fine work.

It is obvious that I may use any suitable plate with plural parallel grooves in one surface in place of the corrugated paper board disclosed. The corrugated paper board however, is extremely well adapted for the purpose, it being yielding, elastic, strong, light and inexpensive.

By packaging files in the manner described, a plurality of packages may be as-

sembled in a carton with their ends exposed. If packages containing files of different lengths are packed in one carton, the longer files may be placed in the bottom and the shorter files may be superposed by degrees. In this manner, assuming that each package contains one dozen files, a gross may be conveniently packed in one carton, adapted to be opened at one end, the tang ends of the files being exposed so that any file may be readily withdrawn from any selected package without the necessity of using any special care to prevent the edge from being injured, and may be similarly replaced, point foremost.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. A package of files or the like, consisting of a plurality of plates each having a face provided with integrally formed parallel grooves and a plane back, said sheets being superposed face to back, files occupying said grooves, a folder enveloping one end of said plates and files, and an open-ended sheath surrounding the whole.

2. A package of files or the like consisting of a plurality of semi-rigid plates, each having an integrally formed face provided with parallel grooves and a plane back, said plates being superposed face to back, files of greater length than said plates occupying said grooves and projecting at one end beyond the corresponding ends of the plates, a folder enveloping the other end of the plates and files, and an open-ended sheath of substantially the length of said grooved plates surrounding the whole.

3. A package of files or the like consisting of a plurality of plates of corrugated paper board having a corrugated face and a plane back, said plates being superposed face to back, files occupying the grooves in the faces of said plates and extending out beyond the ends of said grooves, a folder enveloping one end of said plates and files, and an open-ended sheath surrounding the whole.

4. A package of files or the like comprising a plurality of superposed longitudinally integrally formed semi-rigid corrugated plates arranged face to back and files occupying the face grooves of said plates, the ends of said files extending out beyond the ends of said grooves.

In testimony whereof I affix my signature.

FAYETTE RUMSEY PLUMB.