

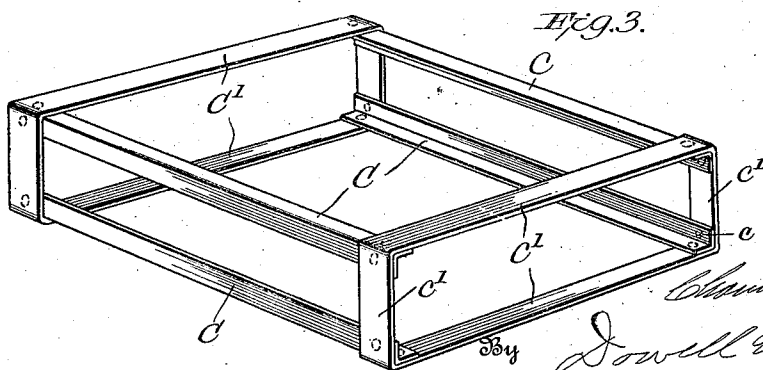
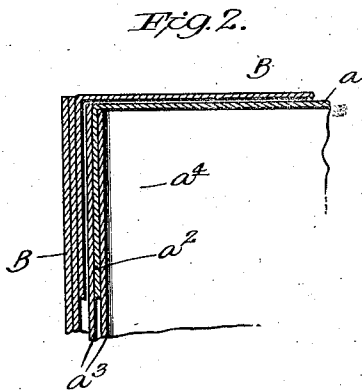
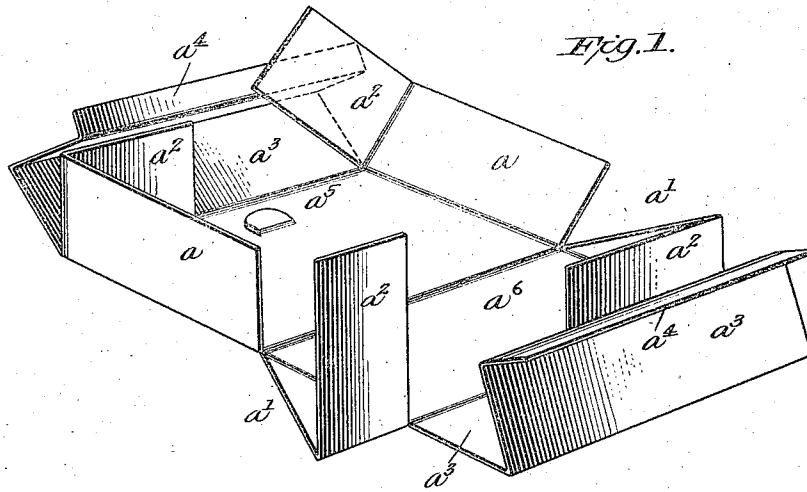
Feb. 15, 1927.

1,618,052

C. M. CANADA
SANDPAPER HOLDER

Filed April 1, 1926

2 Sheets-Sheet 1



Inventor

Chamney H. Canada

Dowell E. Dowell

his Attorney

Feb. 15, 1927.

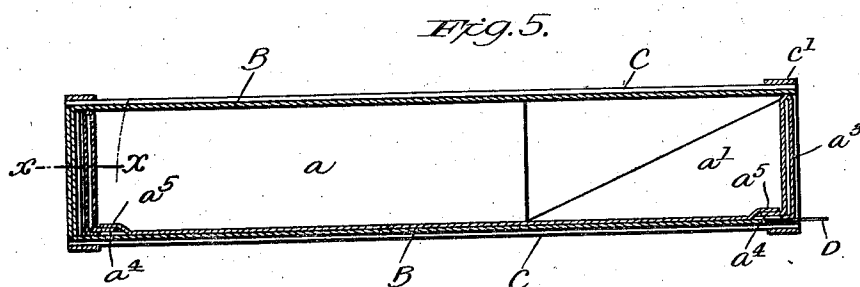
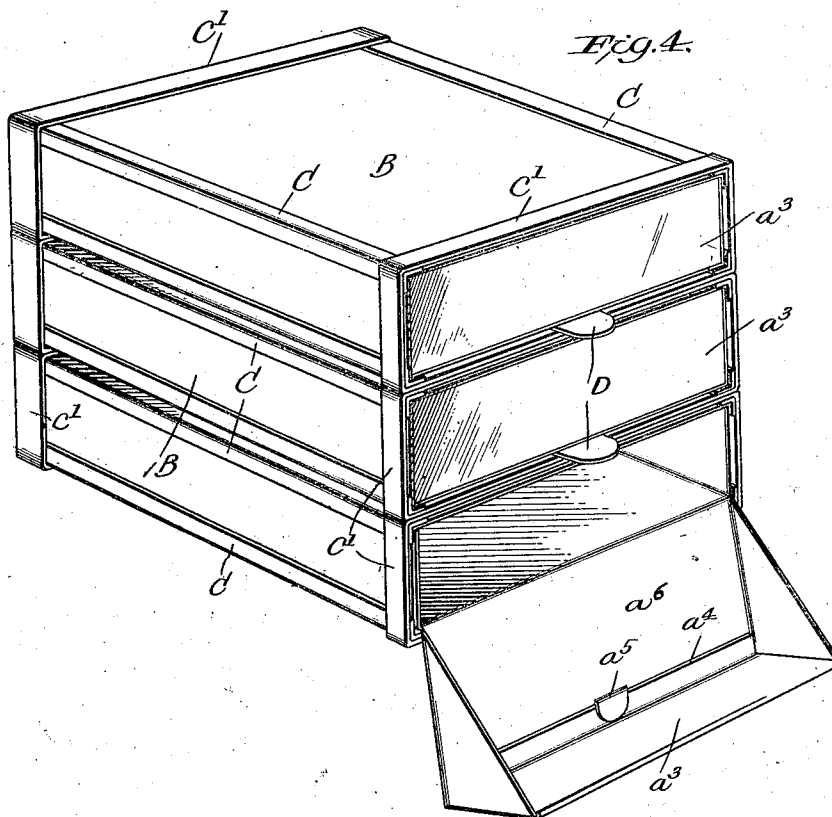
1,618,052

C. M. CANADA

SANDPAPER HOLDER

Filed April 1, 1926

2 Sheets-Sheet 2



Inventor
Chas. M. Canada
By *Edw. L. Brown*
Attorneys

Patented Feb. 15, 1927.

1,618,052

UNITED STATES PATENT OFFICE.

CHAUNCEY M. CANADA, OF WILLIAMSPORT, PENNSYLVANIA, ASSIGNOR TO UNITED STATES SAND PAPER COMPANY, OF WILLIAMSPORT, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

SANDPAPER HOLDER.

Application filed April 1, 1926. Serial No. 99,153.

For convenience in transporting or shipping and storing sand paper it has been a common practice heretofore to put the same in bales of several reams to the bundle, and recently it has been the practice to put the sand paper in boxes made of pasteboard or cardboard and much trouble and inconvenience has been caused by breakage due to piling the boxes one upon another, for storage or transportation.

Certain objects of my invention are to overcome the objections incident to the use of boxes made of pasteboard or other flexible and breakable material as heretofore for packaging sand paper, and to provide a box of the character referred to which will withstand the pressure of any number of boxes piled one upon another, together with simple and efficient means whereby sand paper may be handled in the original packages conveniently arranged in any desired number and held in separated relation in such manner as to permit easy access to their contents and without danger of crushing or breaking a box by pressure of other boxes thereon due to packing and storing or transporting sand paper in pasteboard boxes piled one upon another in large numbers.

Another object is to provide means whereby the individual boxes may be conveniently handled, whether singly or stacked one upon another, when it is desired to remove a sheet or sheets of sand paper therefrom as needed from time to time, or for the purpose of transporting the boxes from place to place for refilling the same.

The invention will first be hereinafter more particularly described, with reference to the accompanying drawings, which are to be taken as a part of this specification, and then pointed out in the claims at the end of the description.

In said drawings, Fig. 1 is a perspective view of a pasteboard box in course of construction, designed and adapted for use in packaging sand paper for transportation or storage, in accordance with my invention;

Fig. 2 is a detail sectional view taken on the line $x-x$ of Fig. 5;

Fig. 3 is a perspective view of a metallic frame structure designed and adapted to embrace and reinforce a pasteboard box of the character referred to to adapt it to withstand the pressure of a number of boxes piled

thereon, without danger of being crushed or broken;

Fig. 4 is a perspective view of a stack of boxes of the character referred to with reinforcing means thereon; the lowermost box in the stack being partly withdrawn from its reinforcing means and having a hinged end-portion thereof lowered for convenience in removing a sheet or sheets of sand paper therefrom; and

Fig. 5 is a longitudinal vertical sectional view through one of the boxes and its reinforcing means.

Referring to said drawings, in which the same reference letters are used to denote corresponding parts in different views, I have shown in Fig. 1 a piece of pasteboard cut and shaped to form a box having an open top and upturned portions a , a^1 and a^2 , to form the sides and ends, respectively, of the completed box; said end-portions a^2 being turned inwardly and secured together and reinforced by overlapping integral extensions a^3 of the bottom of the box at each end; said extensions being upturned and bent over said end-portion a^2 and then downwardly and having the free end a^4 thereof on the inner side of the box bent substantially at right angles to said downwardly bent portion and secured to the bottom of the box by means of a button-like flap cut out of said bottom and arranged to abut against and overlap said free end-portion a^4 , thus securing the end-portions of the box together. As will be seen the main side portions or sections a of the box are longer than the side portions or sections a^1 , and the upper parts of the latter sections are cut away so that they increase in depth toward the front end-portions a^2 . The bottom of the box is slit or grooved transversely at an intermediate point to form a hinge-like connection so that the front end-portion or extension a^3 thereof may drop down into the position shown in Fig. 4 for removing sand paper therefrom. The box constructed as described is inserted in one end of a container B, also made of pasteboard or the like and having a closed bottom, top, sides and end, but open at one end so that the box with the open top may be inserted therein, and thereupon the assembled parts are inserted within an open frame-work such as shown in Fig. 3 of the drawings, consisting

preferably of thin pieces of sheet metal C of angular form in cross-section secured by spot welding or other means, as at *e*, in the four inner corners of end pieces C¹ of ob-
 5 long rectangular form having horizontal top and bottom portions or bars connected at each end by upright portions *e*¹, either integral therewith or rigidly secured there-
 10 to, as shown, thus forming a crate-like structure within which the pasteboard box may be inserted to provide a reinforcement there-
 for while permitting the box to slide back and forth so that it may be readily with-
 15 drawn and replaced at will. It will be observed that the end pieces or members C¹ of the crate-like structure are in the form of continuous bands extending around the
 angle bars or connecting members C at op-
 20 posite ends thereof and are secured thereto on the outer sides thereof so that an un-
 obstructed slideway is provided by said con-
 necting members to permit the container B
 to fit snugly within the crate-like structure
 25 and adapt it to be easily inserted at either end and withdrawn therefrom without com-
 ing into contact with the end pieces C¹.

As will be seen, any number of pasteboard boxes of the described construction contain-
 30 ing sand paper and reinforced by metallic frame structures of the described form may be piled one upon another, as shown in Fig. 4 of the drawings, without danger of break-
 ing or crushing a box or boxes underneath
 35 the pile or stack during transportation or while in storage for use in removing sheets
 of sand paper therefrom very much in the same manner that books are removed from
 an ordinary sectional book-case, by simply
 40 partially withdrawing a box from its reinforcing means so that the hinged end portion
 thereof may drop down into the position shown in Fig. 4 of the drawings for con-
 45 venience in removing a sheet or sheets of sand paper from the box or re-filling the same.

For the purpose of withdrawing the paste-
 board box having the open top from the con-
 50 tainer in which it is enclosed, a piece of fabric or other flexible material is glued or
 otherwise secured underneath the bottom of the front hinged end-portion of the box to
 provide a flap or handle D, which may be
 55 readily grasped between the thumb and fore-
 finger for pulling the box out of the con-
 tainer.

While I have shown and described as one
 element of my improved sand paper holder
 60 a pasteboard box constructed in a single
 piece and adapted to serve as the sand paper
 holder proper, it will be understood of course
 that other constructions may be used, as the
 thing desired is a box similar to the de-
 65 scribed construction having an open top and
 a hinged front, and adapted for insertion
 in an enclosing case or container open at

one end only; the latter being adapted to
 be inserted in the crate-like reinforcing
 means having longitudinal and transverse
 frame members spanning the container along
 both ends thereof and along its edges *an* 70
 both its upper and its lower sides, so as to
 prevent the container from being crushed
 or injured under pressure of superposed
 boxes in a stack. I also desire it to be un-
 75 derstood that the word "pasteboard" as used
 in the appended claims is intended to include
 other similar light and flexible material
 such as cardboard, for example, from which
 boxes of the character referred to may be
 80 easily constructed at very little expense, and
 which by reason of the character of the ma-
 terial used in their construction require re-
 inforcement to prevent injury thereto when
 the boxes are piled one upon another with
 consequent danger of crushing the material 85
 of which they are made.

In some cases it may be desirable to use
 a sand paper holder or box made of paste-
 board or other similar flexible and breakable
 material, without the hinged front end por-
 90 tion, for insertion in a container of the de-
 scribed construction or for insertion in the
 crate-like reinforcing structure without the
 container or inner box; my invention in its
 broader aspects being designed to include 95
 such arrangements.

Having thus described my invention, what
 I claim as new and desire to secure by Let-
 ters Patent of the United States is:

1. A reinforced sand paper holder com- 100
 prising inner and outer boxes made of
 pasteboard or the like, one slidably inserted
 within the other; the inner box having an
 open top and a hinged end-portion adapted
 105 to drop down when withdrawn from the
 outer box; the duplex box being slidably
 inserted in a crate-like reinforcing structure
 comprising frame members which extend
 across and around the ends of the duplex
 box and other members which extend along 110
 the upper and lower longitudinal edges of
 the duplex box, whereby the assembled boxes
 are kept intact when piled one upon another
 while permitting the inner pasteboard box
 to be partly withdrawn from the outer box 115
 for removing sheets of sand paper there-
 from or for refilling the same without dis-
 turbing the pile; said outer box being
 adapted to be readily withdrawn from said
 reinforcing structure together with the inner 120
 box and the inner box being adapted to be
 withdrawn from the outer box without with-
 drawing the latter from said reinforcing
 structure.

2. A reinforced sand paper holder com- 125
 prising inner and outer boxes of shallow
 form made of pasteboard or other flexible
 and breakable material, the inner box hav-
 ing an open top and a front hinged end-por-
 130 tion adapted to drop down when partly

withdrawn from the outer box; the latter being open at one end only, and a metallic crate-like reinforcing structure within which the duplex box is inserted; said structure having longitudinal and transverse frame members spanning the outer pasteboard box along its ends and along its edges on the upper and lower sides thereof, so as to prevent the pasteboard box from being crushed or injured under pressure of superposed boxes in a stack; said longitudinal frame members being of angular form and secured within the four corners of said transverse frame members; the latter being in the form of continuous bands extending around and secured to the outer sides of said longitudinal members so as to provide an unobstructed slideway for the insertion and removal of said holder.

3. A reinforced sand paper holder comprising a box of shallow form with open top and hinged front end-portion inserted in a box of similar form open at one end only; said boxes being made of pasteboard or other flexible and breakable material and inserted in a metallic crate-like reinforcing structure having longitudinal and transverse frame members spanning the pasteboard box along both of its ends and along both of its longitudinal edges on both the upper and lower sides thereof, so as to prevent the pasteboard box from being crushed or injured under pressure of superposed boxes in a stack; said longitudinal frame members being of angular form and secured within the four corners of said transverse frame members; the latter being in the form of continuous bands extending around and secured to the outer sides of said longitudinal members so as to provide an unobstructed slideway for the insertion and removal of said holder at either end thereof.

4. A reinforced sand paper holder comprising two telescopically connected boxes made of pasteboard or the like; the outer box being open at one end only, and the inner box having an open top and a hinged

end-portion adapted to drop down when withdrawn from the outer box, and a reinforcing crate-like structure embracing the duplex box, the latter being slidably inserted in said structure at one end thereof; said crate-like structure consisting of strips of metal which extend transversely across and around the ends of the duplex box, and other strips which extend along the upper and the lower longitudinal edges of said box; said transverse strips being secured to the ends of said longitudinal strips, whereby the assembled boxes are kept intact when piled one upon another in large numbers while permitting the inner box to be partly withdrawn from the outer box for removing sheets of sand paper therefrom or for refilling the same without disturbing the pile.

5. A reinforced sand paper holder comprising two telescopically connected boxes made of pasteboard or the like; the outer box being open at one end only, and the inner box having an open top and a hinged end-portion adapted to drop down when withdrawn from the outer box, and a reinforcing crate-like structure embracing the duplex box, the latter being slidably inserted in said structure at one end thereof; said crate-like structure consisting of strips of metal which extend transversely across and around the ends of the duplex box, and other strips which extend along the upper and the lower longitudinal edges of said box, said transverse strips being secured to the ends of said longitudinal strips; whereby the assembled boxes are kept intact when piled one upon another in large numbers while permitting the inner box to be partly withdrawn from the outer box for removing sheets of sand paper therefrom or for refilling the same without disturbing the pile; said crate-like structure being adapted to permit the duplex box to be inserted therein at either end thereof.

In testimony whereof I affix my signature.

CHAUNCEY M. CANADA.