No. 751,117. PATENTED FEB. 2, 1904.

D. A. SWAGGERTY.

HOLDER FOR ABRADING SHEETS.

APPLICATION FILED APR. 15, 1903.

NO MODEL.

Fig. 1.

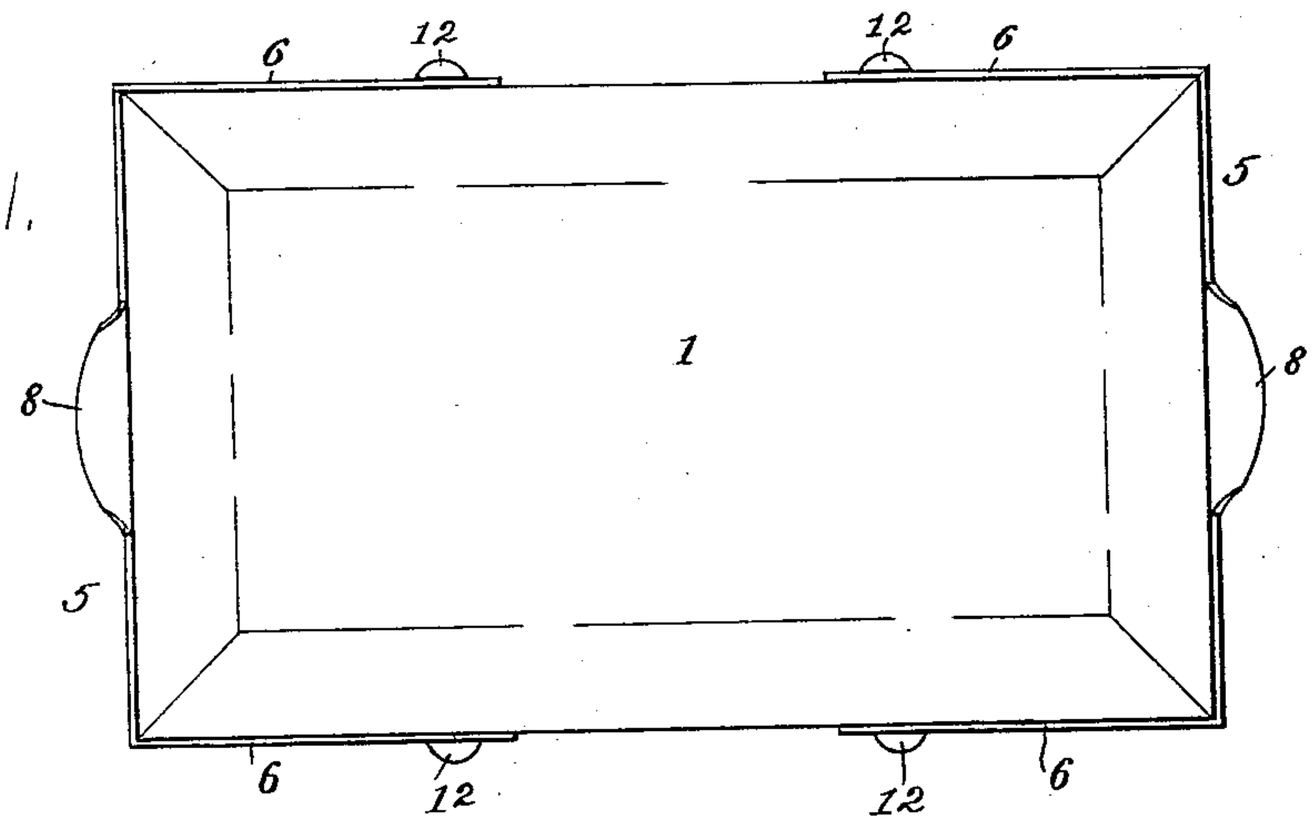

Fig. 2.

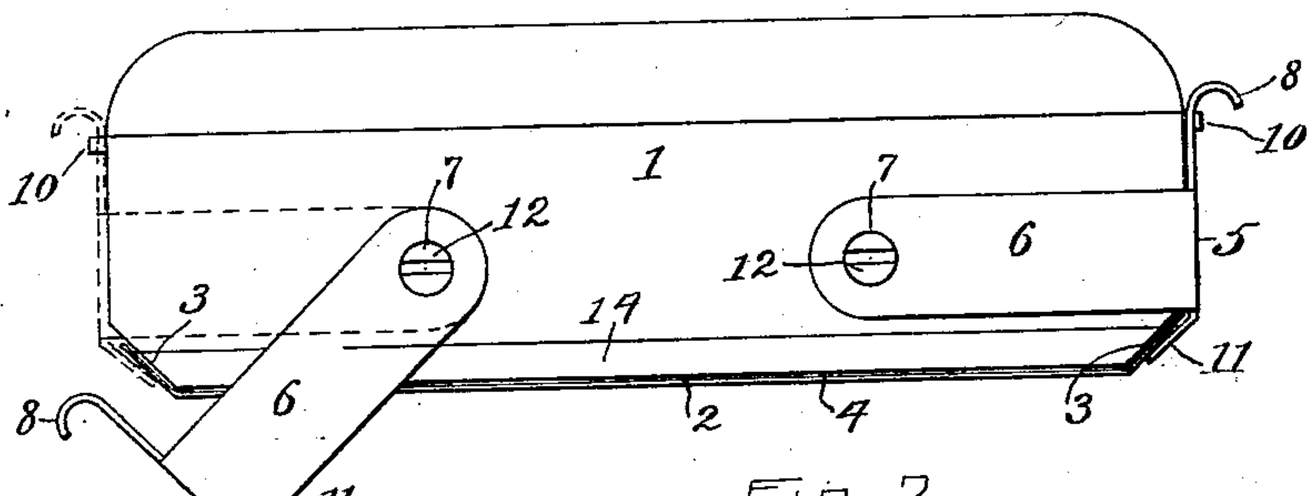

Fig. 4.

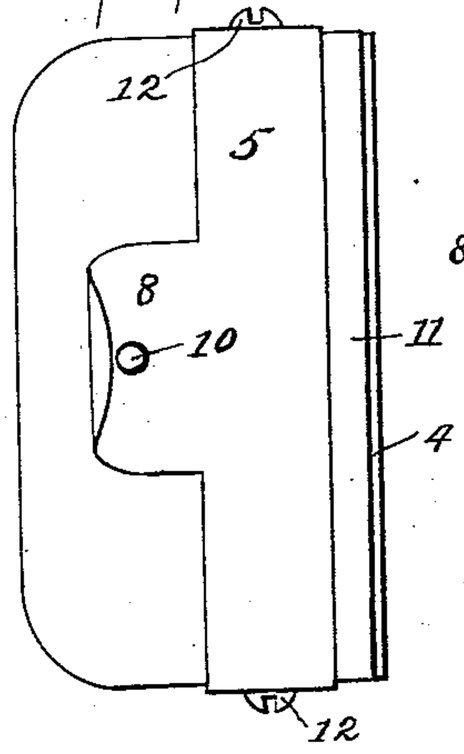

Fig. 3.

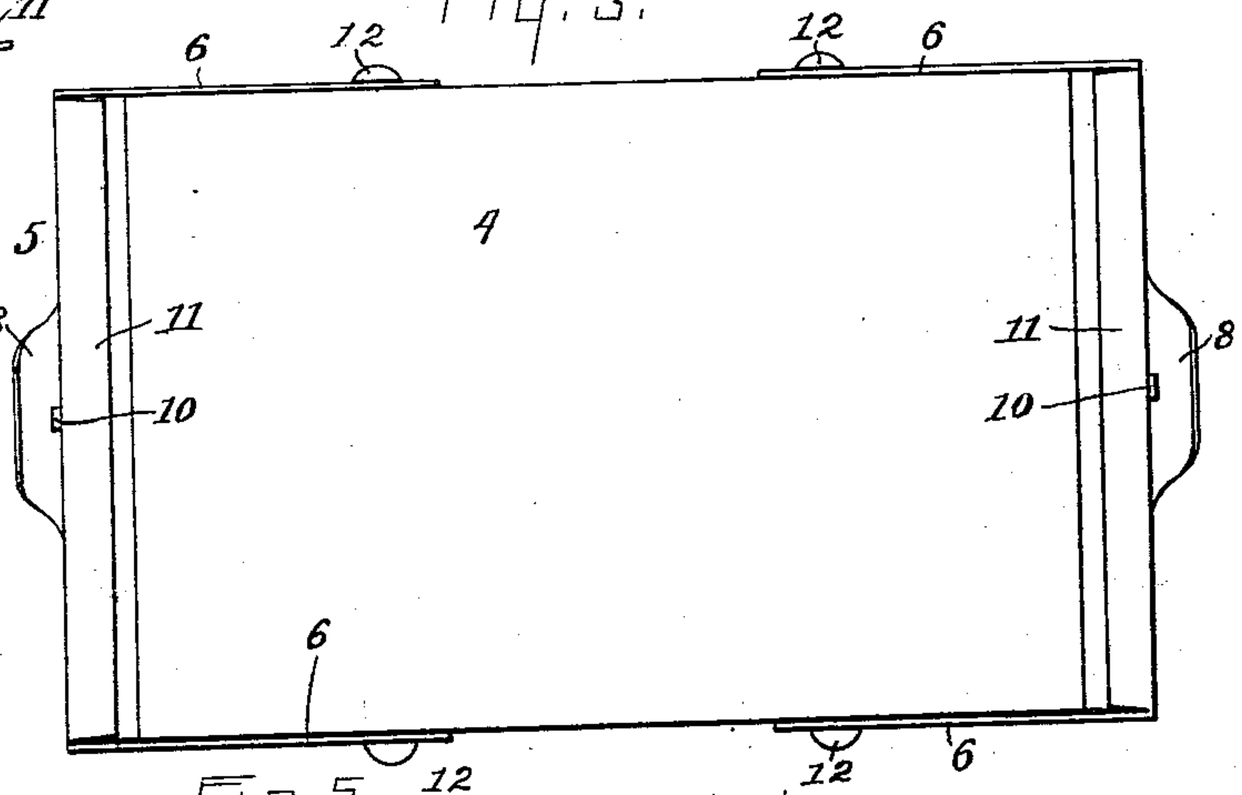

Fig. 5.

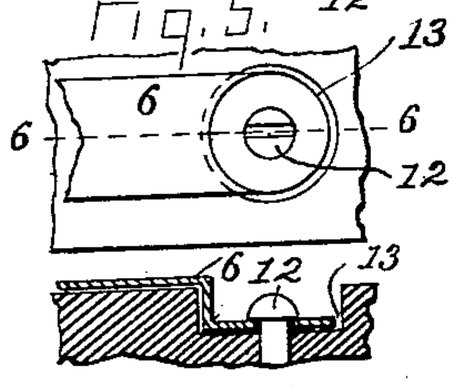

Fig. 6.

Witnesses—

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No. 751,117. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

DOLPHUS A. SWAGGERTY, OF KNOXVILLE, TENNESSEE.

HOLDER FOR ABRADING-SHEETS.

SPECIFICATION forming part of Letters Patent No. 751,117, dated February 2, 1904.

Application filed April 15, 1903. Serial No. 152,717. (No model.)

To all whom it may concern:

Be it known that I, DOLPHUS A. SWAGGERTY, a citizen of the United States, residing at Knoxville, in the county of Knox and State of Tennessee, have invented a new and useful Improvement in Holders for Abrading-Sheets, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates particularly to devices for holding sheets of sandpaper, emery-paper, felt, and similar material manipulated by hand for abrading, polishing, and cleaning surfaces. The device may also be used for holding sheets of absorbent material, such as blotting-paper.

The object of the invention is to produce a simple device which will hold such sheets accurately and effectively and which will be durable.

In the accompanying drawings, Figure 1 is a plan of a holder embodying my improvement. Fig. 2 is a side elevation. Fig. 3 is a bottom view. Fig. 4 is an end view. Figs. 5 and 6 are detail views showing a modified form of attachment for the clamping members.

Referring to said drawings, 1 is the body of the holder. This is preferably of suitable dimensions for convenient holding by the hand. The bottom or lower face 2 of said holder is in the form of a parallelogram and has the beveled or otherwise offset portion 3 at each end, said offset portion of the bottom being high enough above the main portion of the bottom to permit the clamping-lip, hereinafter described, to be above the main portion of the bottom and to bear upward against the sheet of abrading material. The sheet 4 extends over said bottom. A clamping member 5 is applied across each end of the holder. Each such member has an arm 6, extending along each lateral face of the holder and hinged to the holder at 7 on an axis parallel to the ends and the bottom of the holder. Said clamping member has at its middle an upward extension or hasp 8, lying near or against the end of the holder and having an aperture 9, into which extends a short stud 10, which stands perpendicular to the end face of the body 1. Along its lower edge said clamping member has an oblique tongue or lip 11, extending beneath the adjacent beveled or offset portion 3 of the bottom 2 and presenting a straight edge against said offset portion. Said hasp 8 is so located as to engage on the stud 10 only when the clamping member has been moved upward far enough to cause the free edge of said lip 11 to bear with the desired force against the sheet 4. Said lip should be made short enough to cause it to rest entirely above the main or horizontal portion of the face 2 when the clamping member has been locked in its normal position in order that said lip may not rub or scrape the surface upon which the implement is to be used. It will be observed that the lip may be above the horizontal portion of said bottom 2 and yet engage the sheet 4 very closely to said horizontal portion, so that said sheet is very firmly and accurately clamped, while at the same time a minimum portion of the sheet is so held that it cannot be used upon the surface which is to be polished or otherwise treated. It will also be observed that said lip 11 binds the sheet 4 with practically no slipping or scraping of the clamping member over the sheet and that the lip 11 is adapted to yield or spring downward. This facilitates the effective grasping of all sheets even though they vary in thickness.

Either clamping member may be conveniently locked by holding the implement with the bottom toward the operator and the clamping member upward and pressing upon the clamping member with one or two thumbs, bearing on the lower portion of said member until the hasp has slipped over the stud 10. For releasing the clamping member the implement should be held with the back toward the operator and the clamping member directed upward and one or two thumbs pressed against the hasp, so as to push the latter away from the body 1.

In Figs. 1 to 4, inclusive, the ends of the arms 6 rest upon the lateral faces of the body 4, and screws 12 extend through the arms 6 to form the hinge, the heads of said screws remaining outside the surface of the body 1.

In Figs. 5 and 6 a countersink 13 is formed in each lateral face of the body 1 in line with the hinge, and the arm 6 is bent inward, so as to rest in said countersink. By this means

the screws are prevented from projecting outward beyond the surface of the body 1.

The lower portion of the body 1 may be made of leather, india-rubber, felt, or other suitable yielding material adapted to serve as a cushion for the sheet of abrading material.

I claim as my invention—

1. In a holder for abrading-sheets, the combination with a body having at each end a locking device and having a bottom, 2, comprising offset end portions, 3, of clamping members each formed for engaging one of said locking devices, and each having a lip to bear against one of said offset portions, 3.

2. In a holder for abrading-sheets, the combination with a body, 1, having a bottom, 2, comprising offset portions, 3, of hinged clamping members each having a lip for bearing upon the adjacent offset portion, 3, of the bottom, 2, and a latch mechanism for securing one of said members and another latch mechanism for securing the other of said members.

3. In a holder for abrading-sheets, the combination with a body, 1, having a bottom, 2, comprising offset portions, 3, of hinged clamping members each having a lip for bearing upon the adjacent offset portion, 3, and a hasp, and means for engaging said hasp.

4. In a holder for abrading-sheets, the combination with a body, 1, having a bottom, 2, comprising offset end portions, 3, of clamping members each having a lip extending along one of said offset portions, and two arms having their ends pivotally secured to said body, and means at each end of said body for holding the adjacent clamping member with said lip bearing upon said offset portion.

5. In a holder for abrading-sheets, the combination with a body having the countersinks, 13, a bottom, 2, with offset end portions, 3, of clamping members having lips adapted to bear against said offset portions, arms extending into said countersinks, and screws securing said arms pivotally in said countersinks.

In testimony whereof I have signed my name, in presence of two witnesses, this 13th day of April, 1903.

DOLPHUS A. SWAGGERTY.

Witnesses:
CYRUS KEHR,
E. GRAINGER.