

(No Model.)

A. HORNIG.
SANDPAPER HOLDER.

No. 554,065.

Patented Feb. 4, 1896.

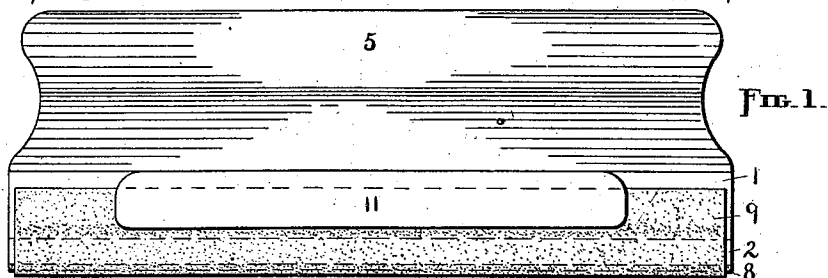


FIG. 1.

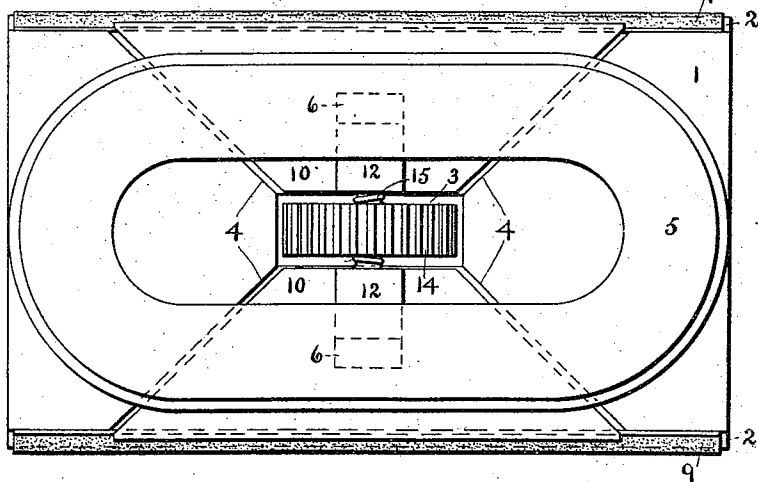


FIG. 2.

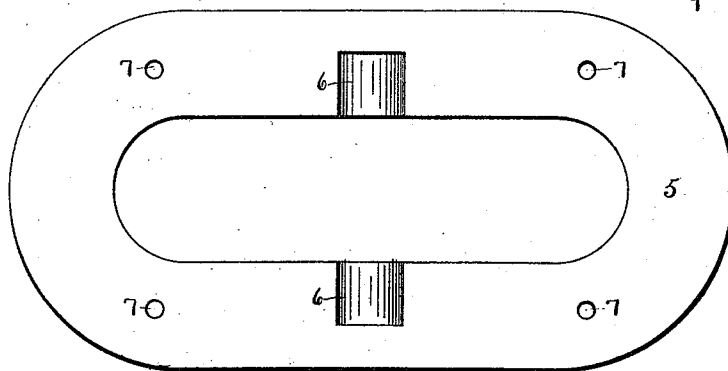


FIG. 3.

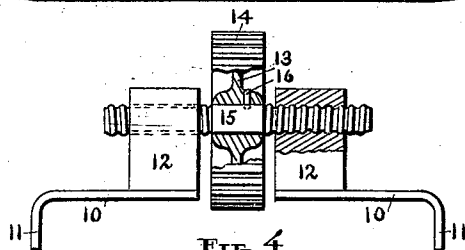


FIG. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALEXANDER HORNIG, OF SANDUSKY, OHIO.

SANDPAPER-HOLDER.

SPECIFICATION forming part of Letters Patent No. 554,065, dated February 4, 1896.

Application filed June 13, 1895. Serial No. 552,620. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER HORNIG, a citizen of the United States, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Sandpaper - Holders, of which the following is a full, clear, and exact description.

My invention consists of a flanged block having a felt-covered bottom, a grip secured to the top of said block, and holding-plates reciprocated by means of a right and left hand screw operated by a wheel or disk within said grip, said plates adapted to tightly press the edges of a piece of sandpaper against the sides of said block or release the same.

The object of my invention is to provide a strong, durable, and convenient holder for sandpaper to which the latter may be quickly attached or detached.

That my invention may be seen and fully understood by others, reference will be had to the following specification and annexed drawings, forming a part thereof, in which—

Figure 1 is a side view of my device; Fig. 2, a top view of said device; Fig. 3, a bottom view of the grip, and Fig. 4 an end view and partial section of the holding-plates and reciprocating mechanism.

Similar figures of reference designate like parts in the drawings and specification.

The block 1 is provided on its sides with the offsets or flanges 2 2 and has the central depression 3 in the top. From the angles of the depression 3 to the edges of the block 1 the top of said block is countersunk, as indicated by the lines 4 in Fig. 2. The block 1 is preferably rectangular in shape.

The grip 5 is shaped somewhat like the link of an ordinary chain and is provided on its under side with the recesses 6 6 and the holes 7. The grip 5 is concave around the outside to offer a better surface to grasp with the hand. Said grip 5 extends longitudinally along the center of the top of the block 1 to which it is secured by screws passing through said block and into the holes 7. After the grip 5 is securely attached to the block 1 a strip of felt 8 or other suitable yielding material is glued or otherwise affixed to the bottom of said block for the purpose of providing a soft backing for the sandpaper 9. Both

the block 1 and grip 5 may be made of either wood or metal, or one may be of one material and the other of another.

The holding-plates 10 10 are adapted to operate in the countersunk portion of the block 1 below the grip 5, and said plates are triangular in shape with the exception of their inner points. The outer edge of each of the holding-plates 10 is turned down to form the side 11, and each of said plates is provided at its inner edge with the vertical bearing 12, having a threaded opening extending through the same. The plate-bearings 12 are designed to operate in the grip-recesses 6. The wheel or disk 13 having the serrated or milled periphery 14 is secured to the center of the right and left hand screw 15 by the pin 16 or in any other suitable manner. The threaded portions of the screw 15 engage the threaded openings in the plate-bearings 10, and when said screw is turned by means of the disk 13 said bearings are drawn toward each other or driven apart, according to the direction in which said disk is revolved. The depression 3 in the block 1 accommodates the lower part of the disk 13.

The operation of my invention is as follows: Rotate the disk 13 and the screw 15 in the proper direction to separate the bearings 12 until said bearings come in contact with the ends of the grip-recesses 6; place a strip of sandpaper, cut to the necessary size, upon the felt 8 and turn the edges of said sandpaper up over the flanges 2 on the block 1, between said block and the plate sides 11; now rotate said disk in the opposite direction until the plates 10 are drawn inward and said sides 11 press the edges of the sandpaper tightly against said block. The sides 11 of the plates 10 grasp the sandpaper above the flanges 2 of the block 1, and it will be readily seen that an extremely-strong connection is thereby established between said block and sandpaper. When the sandpaper has been worn out or it is desired to remove the same for any other reason, simply separate the plates 10 through the medium of the bearings 12, screw 15 and disk 14 until the sides 11 are carried a sufficient distance from the block 1 to allow said sandpaper to be released.

Although the general form or shape of the several parts shown and described is believed

to be that best adapted for the work which each of said parts is designed to perform, nevertheless said form or shape may be modified or changed without departing from the nature of my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a sandpaper-holder, the block 1 having the lateral flanges 2 and the central depression 3 in the top, and the link-shaped grip 5 provided with the recesses 6, fast to said block, in combination with holding-plates beneath said grip having downwardly-extending sides and bearings operating in said recesses, and the mechanism for engaging said bearings and reciprocating said plates whereby said sides may be made to hold or release sandpaper turned up between them and said flanges, substantially as and for the purpose set forth.

2. In a sandpaper-holder, a block, a link-shaped grip fast to the top of said block having recesses therein, and holding-plates beneath said grip provided with downwardly-extending sides and bearings operating in said recesses, said bearings having threaded openings therein, in combination with a right and left hand screw engaging said threaded openings and reciprocating said plates, where-

by said sides may be made to engage or release sandpaper turned up between them and said block, and a wheel or disk rigidly secured to the center of said screw, substantially as and for the purpose set forth.

3. The combination, in a sandpaper-holder, of a block flanged on its sides, a strip of soft material secured to the bottom of said block, a link-shaped grip fast to the top of said block having recesses therein, holding-plates beneath said grip provided with downwardly-extending sides and bearings operating in said recesses, said bearings having threaded openings therein, a right and left hand screw engaging said threaded openings and reciprocating said plates whereby said plate sides may be made to engage or release sandpaper turned up between them and said block, and a wheel or disk with serrated or milled periphery rigidly secured to the center of said screw, substantially as and for the purpose set forth.

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

ALEXANDER HORNIG.

Witnesses:

F. A. CUTTER,
L. A. STRATTON.