Dec. 6, 1949 S. A. CROSBY 2,490,419

DETACHABLE HANDLE FOR SANDING PADS

Filed Oct. 25, 1946

Fig. 1.

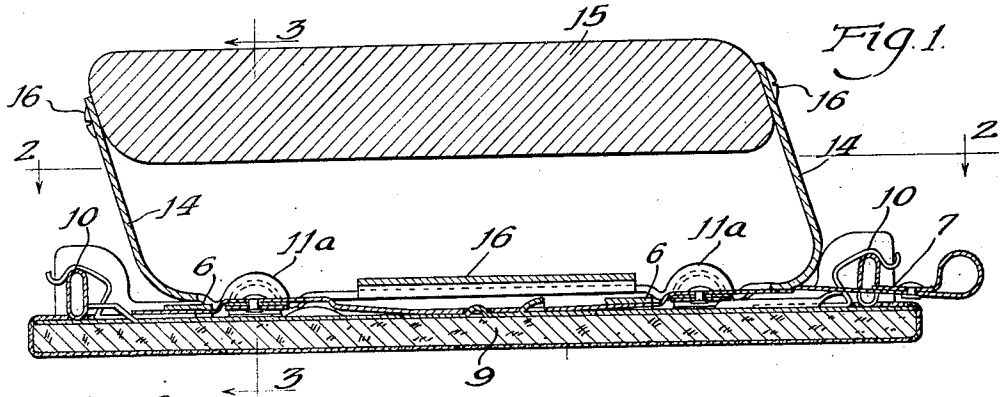


Fig. 2.

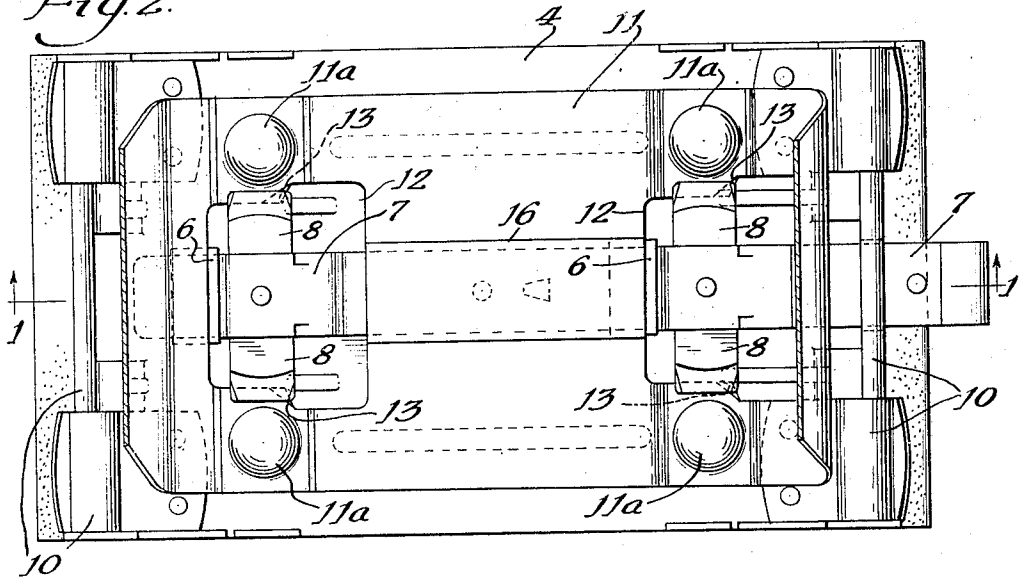
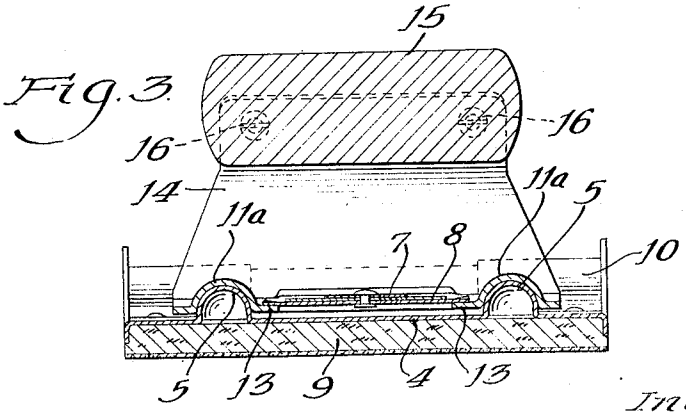


Fig. 3.



Inventor:
Stephen A. Crosby
By:
Chrittton, Schroeder, Merriam & Hofgren
Attorneys

Patented Dec. 6, 1949 2,490,419

UNITED STATES PATENT OFFICE

2,490,419

DETACHABLE HANDLE FOR SANDING PADS

Stephen A. Crosby, Chicago, Ill., assignor to Sterling Tool Products Company, a corporation of Illinois

Application October 25, 1946, Serial No. 705,580

3 Claims. (Cl. 51—187)

1

This invention relates to sanding or polishing devices, and more particularly to an improved handle which may be substituted for a power driving mechanism, when it is necessary to use the pad in corners or places where the overhead clearance is not sufficient to admit the power mechanism.

The primary object of the invention is to provide a light, strong and attractive handle which may be readily attached to a sanding pad.

The invention is illustrated in a preferred embodiment in the accompanying drawings, in which—

Figure 1 is a vertical sectional view, taken as indicated at line 1—1 of Fig. 2; Fig. 2 is a plan sectional view, taken as indicated at line 2—2 of Fig. 1; and Fig. 3 is a transverse sectional view, taken as indicated at line 3—3 of Fig. 1.

The sanding pad is similar to the one shown in my Patent No. 2,395,537, issued February 26, 1946. It has a thin steel backing plate 4 provided with upwardly struck dome-like detents 5, adapted to fit into sockets provided in the detachable handle, as explained below. The backing plate has a pair of keepers 6, to carry a slidable latching member 7 on which outwardly extending flexible fingers 8 are mounted. A suitable pad 9, of cork or felt, is cemented to the bottom of the plate, and tensioning devices 10 are provided at opposite ends of the upper side of the plate, to hold a piece of fabric or sandpaper properly tensioned around the pad.

The detachable handle, which is the subject of the present invention, has a bottom plate 11, provided with cut-out portions 12 to receive the arms 8 of the slide 7. The plate has small nibs 13 projecting into the cut-out portions so that they may be overlapped and gripped by the arms 8 of the slide when it is moved to the left, as viewed in Fig. 2. The plate also has socket portions 11a which are struck upwardly to receive the domes 5 of the sanding pad. The plate 11 has a pair of upwardly and forwardly inclined arms 14, to which a rounded gripping handle 15 may be secured by screws 16. The handle is of a convenient size to be gripped by workmen, and may be made of wood, plastic, or other suitable material.

It will be noted that the arms 14 are connected to the base 11 by a rounded portion which is stronger for a given thickness of material than a sharp corner would be. The arms 14 are inclined forwardly, so that the operator can readily see which is the front end of the handle, and also give the device a streamlined appearance. The central portion of the base plate 11 is offset upwardly, as indicated at 16', to provide clearance for the slide 7 of the pad.

The foregoing detailed description is given for clearance of understanding only, and no unnecessary limitations should be understood therefrom,

2

for some modifications will be obvious to those skilled in the art.

I claim:

1. A detachable handle for a sanding pad provided with slidable securing means, comprising, a U-shaped bracket having a bottom plate of substantial width having adjacent each of its ends cut-out portions to receive the arms of a securing slide on a longer sanding pad, said plate having nibs projecting into said cut-out portions so as to be releasably gripped by the slide and at each end an upwardly extending forwardly inclined arm, said arms being parallel with relation to each other, a wide flat gripping handle having rounded side edges, said handle having parallel inclined ends parallel with said forwardly inclined arms, said plate having on each lateral side of each of said cut-out portions a socket portion adapted to seat over upstanding domes provided on the sanding pad, and means for securing said handle inclined ends to the upper end portions of said inclined arms.

2. A detachable handle as claimed in claim 1, in which said plate is formed at an intermediate portion with an upwardly offset portion forming a longitudinal groove adapted to provide clearance for said slidable securing means.

3. A detachable handle for a sanding pad provided with slidable securing means, comprising, a bottom plate of substantial width having adjacent each of its ends an enlarged opening having straight lateral side portions forming inwardly extending nibs to be releasably gripped by the slidable securing means, an upwardly extending arm at each end of the plate joined thereto at its bottom by a curved portion the balance of each of said arms being straight and forwardly inclined, said arms being parallel with relation to each other, a wide flat gripping handle with rounded edge portions permanently secured to the upper end portions of said inclined arms, whereby the handle is offset forwardly with relation to the plate.

STEPHEN A. CROSBY.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
761,522	Mielenhausen	May 31, 1904
1,319,533	Rice	Oct. 21, 1919
1,485,397	Kreisheld	Mar. 4, 1924

FOREIGN PATENTS

Number	Country	Date
136,968	Great Britain	Dec. 31, 1918
171,647	Great Britain	Nov. 24, 1921