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SCRAPER WITH RESILIENT SHIELD AND HAND REST

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FIG. 1

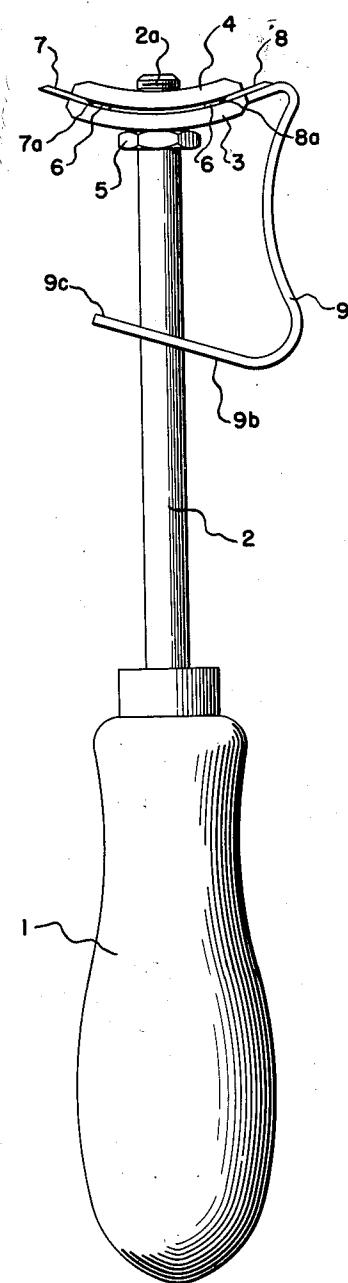


FIG. 2

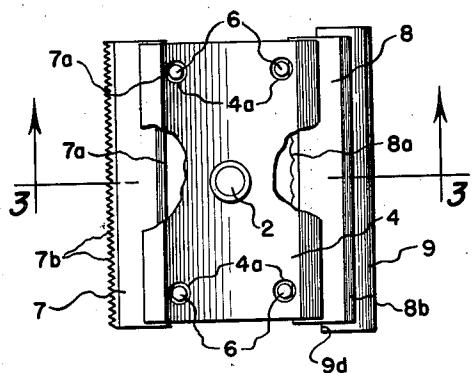
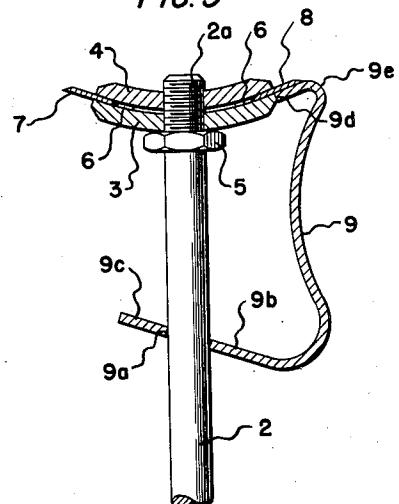


FIG. 3



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SCRAPER WITH RESILIENT SHIELD
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My invention relates to a scraper and the objects of my invention are:

First, to provide a scraper of this class which is particularly useful in removing paint or the like from the outer surfaces of buildings when refinishing same;

Second, to provide a scraper of this class having a novel hand rest and blade guard engageable with a plurality of different blades whereby efficient scraping pressure may be exerted in connection with the blades particularly adapted for the surface being scraped;

Third, to provide a scraper of this class having very simple and efficient clamping plates for the scraper blades thereof;

Fourth, to provide a scraper of this class having indexing pins for positively aligning the clamping plates and which also support the inner edges of the scraper plates providing a very simple positive structure for accurately setting up the scraper blades in connection therewith;

Fifth, to provide a scraper of this class which is very strong and capable in proportion to its size and weight; and

Sixth, to provide a scraper of this class which is very simple and economical of construction, efficient in operation and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawing and to the characters of reference thereon forming a part of this application in which:

Fig. 1 is a side elevational view of my scraper; Fig. 2 is an end view thereof and Fig. 3 is a fragmentary longitudinal sectional view thereof taken from the line 3—3 of Fig. 2 showing parts and portions in elevation to facilitate the illustration.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

The handle 1, shaft 2, clamp plates 3 and 4, nut 5, pins 6, scraper blades 7 and 8 and the shield and hand rest 9 constitute the principal parts and portions of my scraper.

The handle 1 is a substantially conventional wooden handle fitted over the extending end of the shaft 2 which is provided with a screw threaded portion 2a at its extending end on which the nut 5 is positioned. This nut 5 is positioned

5 a certain distance from the end portion 2a and provides an abutment for the clamp plate 3 which is slidably positioned over the screw threaded portion 2a of the shaft 2. The clamp plate 4 is screw threaded on the screw threaded portion 2a of the shaft 2 and these plates 3 and 4, as shown in Fig. 1 of the drawing, are arcuate plates indexed together by the pins 6. These pins 6 may be connected to either of the plates 3 or 4 but are preferably connected to the clamp plate 3 and extend into openings 4a in the clamp plate 4. The scraper blades 7 and 8 are interposed between the clamp plates 3 and 4 and the inner edges 7a and 8a of the scraper blades 7 and 8 engage the pins 6, all as shown best in Figs. 1 and 3 of the drawing. When in operating position the scraping blades 7 and 8 are clamped between the clamp plates 3 and 4 by tightening the screw threaded portion of the clamp plate 4 forcing said clamp plate 4 toward said clamp plate 3 which is abutted to the nut 5 whereby the scraper blades 7 and 8 are positively engaged between the clamp plates 3 and 4. The scraper blade 7 is provided 10 with serrated teeth portions 7b and the scraper blade 8 is provided with a smooth straight edge 8b providing a variety of scraper blade edges for operating on various surfaces. The shield and hand rest 9 is resilient and is provided with an opening 9a therein near its normally rear end fitted over the shaft 2 and the angularly disposed portion 9b in which said opening 9a is positioned is so disposed that the shield and hand rest 9 resists movement thereof away from the clamping plates 3 and 4 toward the handle 1. Thus the opening 9a provides a binding bearing on the shaft 2 holding the shield and hand rest 9 adjacent the clamping plates 3 and 4. The extending end of the angularly disposed portion 9b designated 9c provides a manual release portion 15 which may be forced toward the handle 1 for releasing the shield and hand rest 9 from its position in connection with the clamping plate 3 adjacent either of the blades 7 or 8. As shown in Figs. 2 and 3 of the drawing, the shield and hand rest 9 is provided with a straight edge portion 9d adapted to engage the clamping plate 3 at its extending edges and this edge portion 9d is extended slightly beyond each opposite end of the clamping plate 3 and blades 7 and 8, as shown best in Fig. 2 of the drawing. Adjacent the edge 9d is a round corner 9e which is disposed outwardly of the scraping edge of either of the blades 7 and 8 when the shield and hand rest 9 is adjacent thereto providing protection of the

operator when using the hand rest 9 to force one of the blades against the work being scraped.

The operation of my scraper is substantially as follows:

When one of the blades 7 or 8 is being used to scrape paint or the like from a surface on which it is secured, a person bears upon the hand rest 9 with one hand and forces the handle 1 longitudinally of the axis of the shaft 2 engaging the blade opposite the hand rest 9 with the work. The straight edge portion 9d is held securely against the blade 8 as shown in Figure 1 of the drawings by tension maintained in the hand rest 9 between said blade 8 and the binding bearing 9a of the hand rest 9. Thus the resilient character of the hand rest 9 holds the straight edge 9d against the blade 8 and the clamping plate 3 during pressure of a person's hand on the hand rest 9. When it is desired to release the shield and hand rest 9 from its position adjacent either of the blades 7 or 8, the portion 9c of the shield and hand rest 9 is forced backwardly rendering it slidable on the shaft 2 toward the handle 1 which releases the binding bearing at the opening 9a, then the shield and hand rest 9 is rotated substantially 180 degrees into alignment with the other plate and connected with the clamping plate 3 adjacent said other blade in the position as indicated in Figs. 1 and 3 of the drawing. It will be here noted that the hand rest 9 is initially engaged at its end 9c and is compressively forced toward plate 2 until the end 9d engages the blade 7 or 8 and forceful compression of said hand rest is maintained by the binding bearing 9a. Thus, a hand rest and shield is provided adjacent the plates which is readily selectively movable from one blade to the other permitting the operator to employ a variety of scraping edges in accordance with the work encountered. The serrated portions 7b of the scraper blade 7 are arranged to do the rough scraping of heavy paint or the like while the scraper blade 8 is arranged for use in finish scraping after having employed the scraper blade 7. In positioning the blades 7 and 8 intermediate the clamping plates 3 and 4, the pins 6 provide positive indexing thereof so that the inner edges 7a and 8a of the blades 7 and 8 engaging the pins 6 provide stops for the blades 7 and 8 so that they are inserted to the proper position intermediate the clamping plates 3 and 4. The screw threaded relationship of the shaft 2 with the clamping plate 4 provides means for securely tightening the clamping plates 3 and 4 at opposite sides of the scraper blades 7 and 8.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In a scraper of the class described, the combination of a handle, a shaft connected with said handle, clamping plates secured on the extending portion of said shaft opposite to said handle, blade means having a scraping edge secured intermediate said clamping plates, securely held therebetween and extending outwardly thereof, a re-

silient shield and hand rest having a portion angularly disposed relative to said shaft provided with an opening therein through which said shaft is extended, said opening forming a binding bearing, said shield and hand rest having a straight edge spaced from said opening and compressively engaging one of said clamping plates while being held securely against said blade means and extending beyond the scraping edge thereof providing a shield for the operator's hand when bearing adjacent said blade means during forceful application of said blade means to the work.

2. In a scraper of the class described, the combination of a handle, a shaft connected with said handle, clamping plates on the extending portion of said shaft opposite to said handle, blade means having a scraping edge secured intermediate said clamping plates and extending outwardly thereof, a resilient shield and hand rest having a portion angularly disposed relative to said shaft provided with an opening therein through which said shaft is extended, said opening forming a binding bearing, said shield and hand rest having a straight edge spaced from said opening and compressively engaging one of said clamping plates while being held securely against said blade means and extending beyond the scraping edge thereof providing a shield for the operator's hand when bearing adjacent said blade means during forceful application of said blade means to the work.

3. In a scraper of the class described, the combination of a handle, a shaft connected with said handle, clamping plates on the extending portion of said shaft opposite to said handle, blade means having a scraping edge secured intermediate said clamping plates and extending outwardly thereof, a resilient shield and hand rest having a portion angularly disposed relative to said shaft provided with an opening therein through which said shaft is extended, said opening forming a binding bearing, said shield and hand rest having a straight edge spaced from said opening and compressively engaging one of said clamping plates while being held securely against said blade means and extending beyond the scraping edge thereof providing a shield for the operator's hand when bearing adjacent said blade means during forceful application of said blade means to the work, and said shaft being screw-threaded and having an abutment portion near its extending end adjacent to which one of said clamping plates is connected, the other of said clamping plates being screw threaded on the extending end of said shaft.

4. In a scraper of the class described, the combination of a handle, a shaft connected with said handle, clamping plates on the extending portion of said shaft opposite to said handle, blade means having a scraping edge secured intermediate said clamping plates and extending outwardly thereof, a resilient shield and hand rest having a portion angularly disposed relative to said shaft provided with an opening therein through which said shaft is extended, said opening forming a binding bearing, said shield and hand rest having a straight edge spaced from said opening and compressively engaging one of said clamping plates while being held securely against said blade means and extending beyond the scraping edge thereof providing a shield for the operator's hand when bearing adjacent said blade means during forceful application of said blade means to the work, said shaft being screw-threaded and having an abutment portion near its extending end adjacent to which one of said clamping plates is connected, the other of said clamping plates being screw threaded on the extending end of said shaft, and pins in connection with one of said clamping plates near the edges thereof engaging the inner edges of said blade means for supporting the same in certain position intermediate said clamping plates.

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