

Jan. 13, 1948.

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2,434,244

PAINT AND VARNISH SCRAPER

Filed Jan. 15, 1946

Fig. 1.

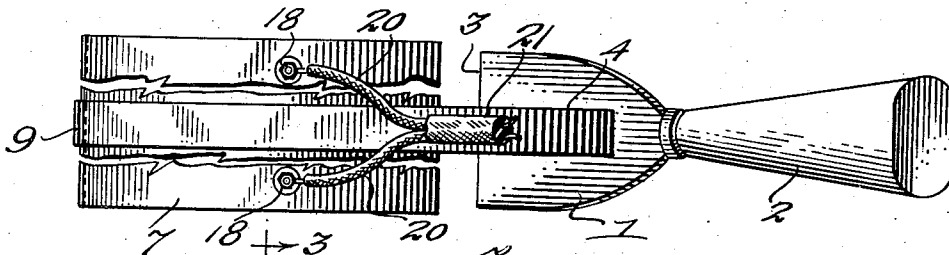


Fig. 2.

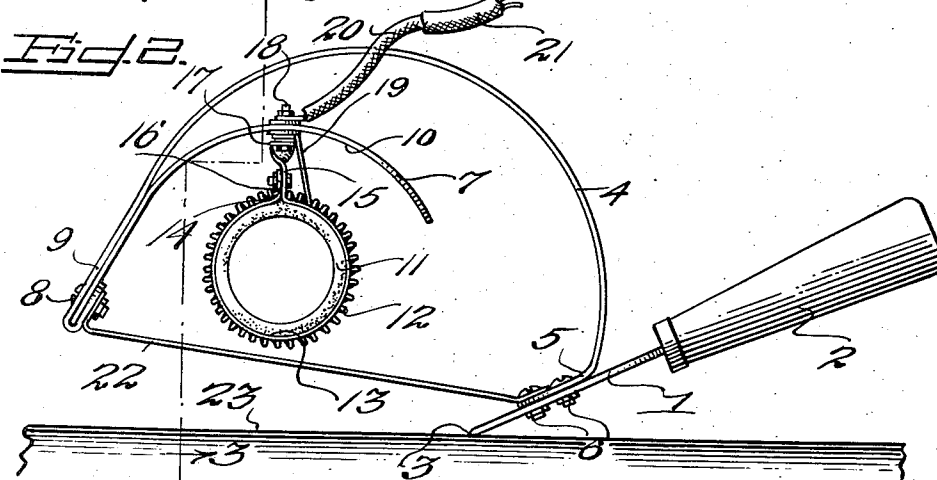
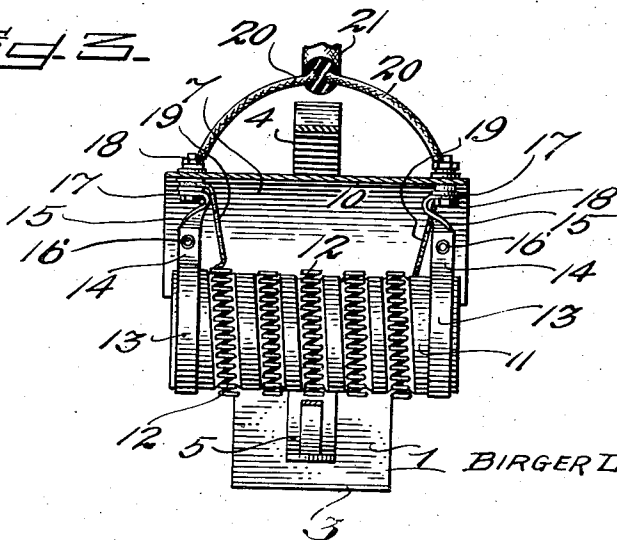


Fig. 3.



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UNITED STATES PATENT OFFICE

2,434,244

PAINT AND VARNISH SCRAPER

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Application January 15, 1946, Serial No. 641,200

1 Claim. (Cl. 219—29)

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This invention relates to new and useful improvements and structural refinements in paint and varnish scrapers, and the principal object of the invention is to provide a device of the character herein described in which an electric heating element is employed to soften the coat of paint or varnish, in order that the same may be more easily and quickly removed by the scraper blade.

A further object of the invention is to provide a scraper in which the heating element is so positioned that it does not interfere with the operation of the scraper blade.

Another object of the invention is to provide a scraper which is safe in operation.

An additional object of the invention is to provide a scraper which is of simple construction and which will not easily become damaged.

With the above more important objects in view, and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the invention partially broken away,

Figure 2 is a side elevation thereof, and

Figure 3 is a cross-sectional view, taken in the plane of the line 3—3 in Figure 2.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a scraper blade 1 provided at the end thereof with a handle 2. Positioned upon the blade 1 adjacent its scraping blade 3 is a support arm 4, the end portion 5 of the latter being secured to the blade by means of the bolts 6.

The arm 4 is of an arcuate configuration, extending upwardly and forwardly with respect to the scraping edge 3. A reflector shield 7 is secured by means of the bolts 8 to the remaining end 9 of the arm 4, this shield assuming the form of an arcuate plate, the under-surface 10 of which is upwardly concaved as will be clearly apparent from the accompanying drawings.

The axis of concavity of the plate 7 lies in advance of and parallel with the scraping edge 3 so that the element 11 which is suspended from the

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plate and hereinafter more particularly described, may pass over the coat of paint or varnish before the latter is removed by the scraper blade.

The electric heating element 11 is of a cylindrical form, consisting of a suitable core on which is wound a length of resistance wire 12. Positioned adjacent each end of the element 11 is an annular clamp 13, provided with a short ear 14 and a relatively longer ear 15. The two ears of the clamp are secured together by means of a bolt 16, whereupon each of the ears 15 projects upwardly to form an angulated bracket 17.

An insulated bolt 18 is employed to secure each of the brackets 17 to the underside of the plate 7, whereby the element 11 is mounted in the concavity of the reflector shield.

The aforementioned bolts 18 also serve as terminals for the ends 19 of the resistance wire 12 and an electric conductor 20 is connected to each of the terminals, whereby the element may receive its source of power. The conductors 20 are encased in a flexible conduit 21 which may be, in turn, attached to the arm 4 or alternatively, may proceed loosely to an outlet receptacle.

In order to reinforce the arm 4 and to minimize the resiliency thereof, a chordal brace 22 extends between the extremities 5 and 9 of the arm, to which it is secured by means of the aforementioned bolts 6 and 8, respectively.

When the invention is placed in operation, the heat radiated by the element 11 will be reflected and concentrated by the shield 7 upon a coat of paint or varnish indicated by the line 23, whereby such paint or varnish will be substantially softened in readiness for easy removal by the scraper blade 1.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is

A paint and varnish scraper comprising, in combination, a scraper blade and a handle thereon, an arcuate support arm secured at one end thereof to said blade adjacent the scraping edge, said arm extending upwardly and forwardly with respect to said edge, an arcuate reflector plate

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under said arm, the under surface of said plate being upwardly concaved with its axis of concavity extending in advance of and in parallel with said edge, one side of said plate being secured to the remaining end of said arm, a cylindrical, electric heating element in the concavity of said plate and parallel therewith, an annular clamp adjacent each end of said element, an upwardly projecting bracket integral with each of said clamps, a pair of insulated terminals, each of said terminals securing one of said brackets to the under surface of said plate, an electric conductor connected to each of said terminals,

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and a chordal brace extending between the ends of said arm.

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REFERENCES CITED

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

UNITED STATES PATENTS

10	Number	Name	Date
	1,762,646	Surls et al.	June 10, 1930