

Dec. 8, 1942.

H. E. ENGESSER

2,304,559

ELECTRIC SCRAPER

Filed Dec. 23, 1940

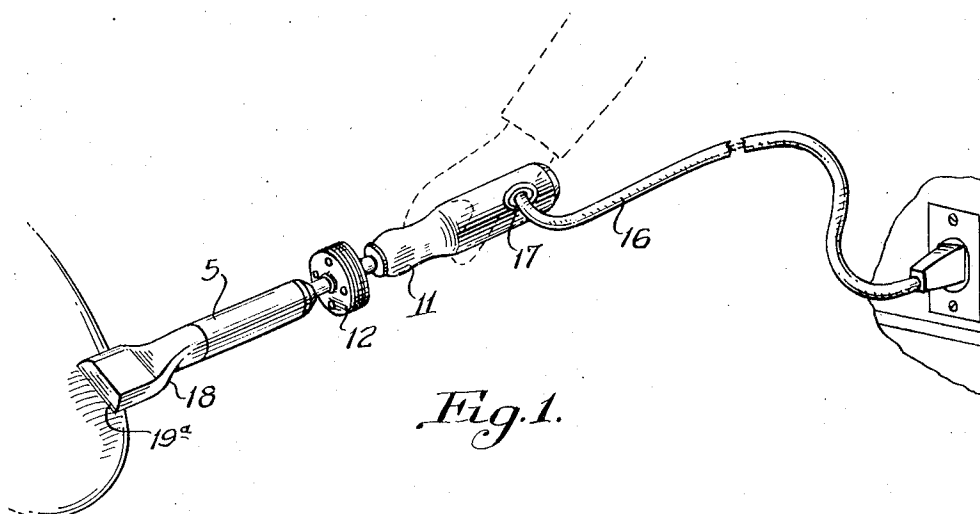


Fig. 1.

Fig. 2.

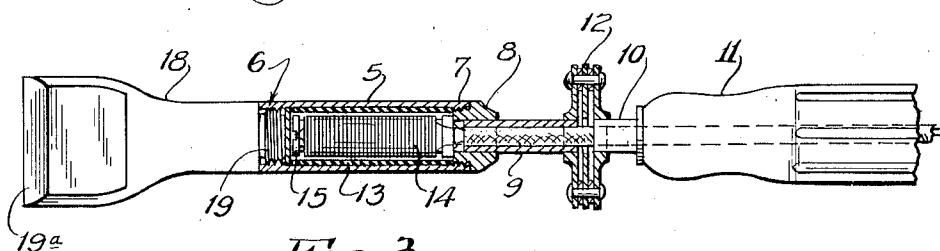


Fig. 3.

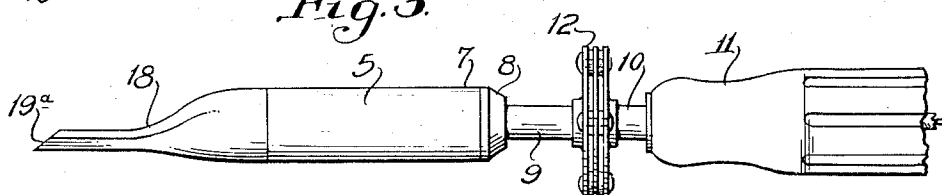
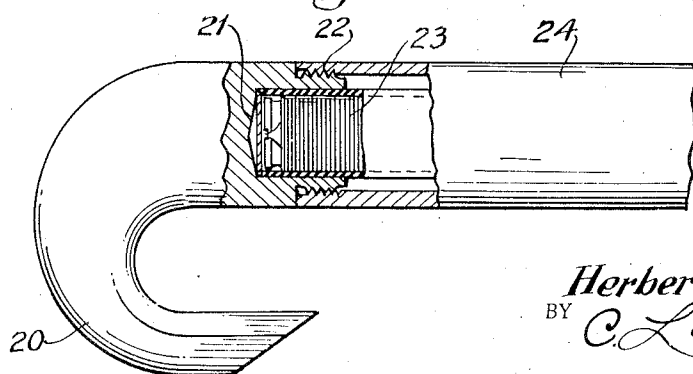


Fig. 4.



INVENTOR.

Herbert E. Engesser
BY *C. Lauren Maltby*
ATTORNEY.

UNITED STATES PATENT OFFICE

2,304,559

ELECTRIC SCRAPER

Herbert E. Engesser, Los Angeles, Calif., assignor
of one-fourth to Joseph Lewis and one-fourth
to C. Lauren Maltby, both of Los Angeles,
Calif.

Application December 23, 1940, Serial No. 371,258

1 Claim. (Cl. 219—21)

This invention relates to tools and more especially to an electric scraper or chisel.

An object of the invention is to provide a simple, practical and inexpensive tool of the character described.

Another object of the invention is to provide a heated tool particularly adapted for scraping and loosening of material such as tar and the like.

A further object of the invention is to provide a tool of the character described having interchangeable bits or points for varied uses.

And an additional object is to provide a tool as described having a heated point in which the heating element extends substantially within the point element.

Other objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing, wherein

Fig. 1 is a perspective view of a tool embodying my invention.

Fig. 2 is a plan view partly in section of the tool shown in Fig. 1.

Fig. 3 is an elevation view of the same, and

Fig. 4 is a fragmentary view partly in section showing a modified form of tool point or bit.

Referring more particularly to the drawing I show a tubular tool shank member 5 having threaded end portions 6 and 7 to the latter of which a threaded bushing 8 is secured, the bushing having a bore in which is secured a tubular shank 9. A shank portion 10 having a handle 11 is secured by a heated dissipating coupling 12 to shank 9. Tubular member 5 is provided with an insulating tube 13 within which is positioned an electric heating coil 14 having a metallic core 15 at the forward end, coil 14 being connected to a power supply cord 16 which extends through shank 9 and 10 and handle 11, the latter being provided with an aperture 17 in a side portion thereof so as to leave the free end of the handle unobstructed for the application of a hammer or

other means of applying pressure at the end. A chisel bit or like tool point is provided with a threaded end portion 19 which is adapted for detachable connection with threaded portion 6 of member 5 in close proximity to core 15 for the most effective transfer of heat therebetween. Bit 18 is shown as having a flat sharpened edge 19, however, the size and the shape of the bit may be curved as at 20 or given any desired shape and, being detachable as described, may be substituted at will by another of selected size and shape.

The bit 20 of Fig. 4 is shown having a tubular recess 21 in the threaded end portion 22 adapted to receive the end portion of a heating element 23 in a shank 24 so as to increase the efficiency and speed of heating the bit.

From the foregoing description it will be apparent that I have provided a novel heated tool having a chisel point or the like for which there is an especial need in certain industries such as the automotive, wherein it is necessary to loosen and scrap material such as tar and the like which must be softened by heat before it can be effectively removed or otherwise worked on.

It will be understood that the foregoing description is illustrative rather than restrictive of the invention and that changes and modifications may be made without departing from the spirit and scope of the subjoined claim.

Having described my invention, what I claim is:

A tool as described comprising a shank having a heating element therein, a handle for said shank having a side aperture for the supply wires of said heating element and a free end adapted to have hand pressure applied thereto, and an edged tool point, detachably secured to said shank and having a reverse bend, said heating element adapted to extend partially into said tool point.

HERBERT E. ENGESSER.