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WELDER'S CHIPPING AND CLEANING TOOL

Filed Aug. 1, 1966

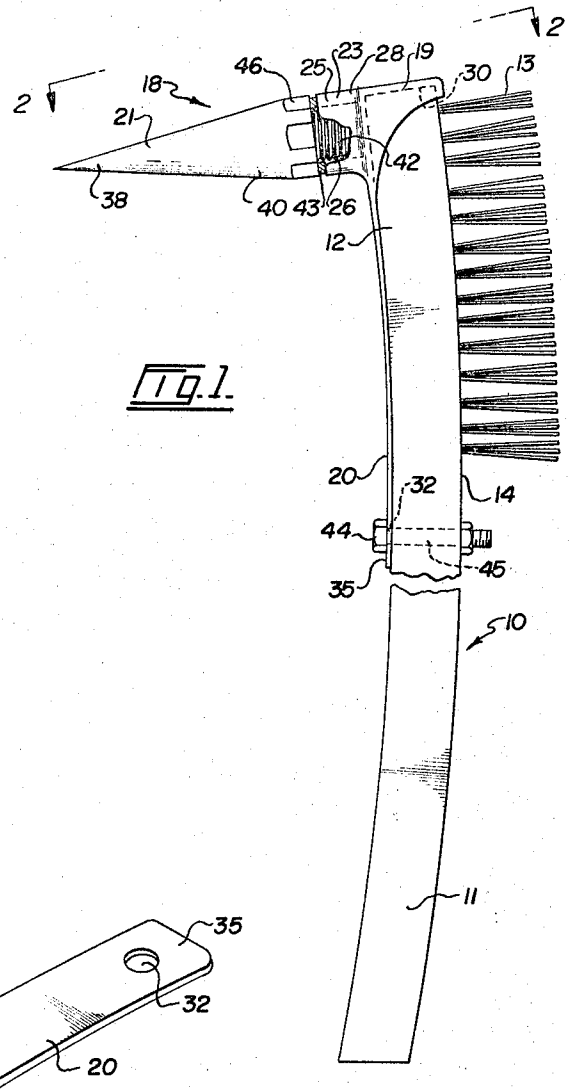

Fig. 1.

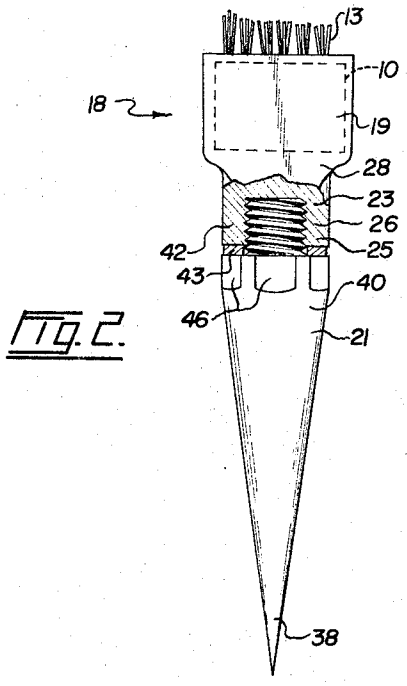

Fig. 2.

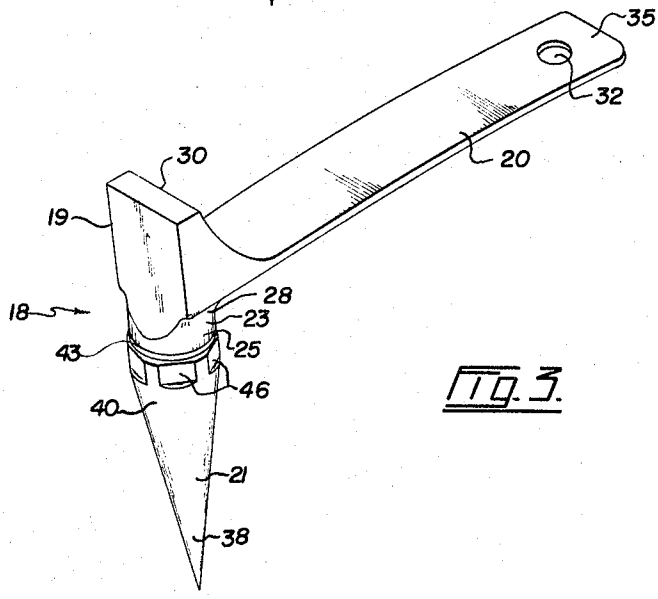

Fig. 3.

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WELDER'S CHIPPING AND CLEANING TOOL

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ABSTRACT OF THE DISCLOSURE

Welder's chipping and cleaning tool having a chipping attachment detachably connectable to a brush handle, the chipping attachment being provided with a socket into which the brush handle fittedly extends.

This invention relates to a tool used by welders for chipping and cleaning a surface after or before a welding operation.

In the manufacture of tools of the above nature, it has generally been the practice to provide a chipping tool having an elongated handle to which a wire brush is detachably secured. Although the tool constructed in this manner is efficient, its service life has been relatively short by reason of the fact that during its chipping operation, the connection between the brush and the handle of the chipper invariably loosens, resulting in excessive wear of the connecting elements.

The present invention provides a tool of this nature wherein the chipping tool is detachably secured to the handle of a brush which has resulted in a tool having a long service life.

Furthermore, this invention provides a tool wherein the point elements of the chipper may be easily and quickly removed from the entire assembly and replaced with a new point element so as to maintain the welder's efficiency at a high level.

The present invention comprises a head portion having a socket formed therein for fittedly receiving one end of a handle of a welder's brush, an elongated connecting piece connected to the head at one end and extending along one side of said handle, means for detachably securing the connecting piece at its other end to the handle so as to maintain the handle in engagement with the head section, and a point section secured to the head section directed in a direction substantially opposite to that of the brush.

In the drawings which illustrate the invention,

FIGURE 1 is a side view of the invention,

FIGURE 2 is an end view of the invention in the direction 2—2 of FIGURE 1,

FIGURE 3 is an isometric view of the chipper shown in a condition detached from the handle of the welding brush.

Referring to the drawings, the numeral **10** designates a welder's brush having an elongated handle **11** normally formed of wood and having a square or rectangular cross section. This handle may be either straight or gently curved and, adjacent one end **12** thereof, wire bristles **13** extend from one side surface **14** of the handle.

The numeral **18** designates a chipping attachment formed having a head portion **19**, a laterally projecting connecting piece **20**, and a point element **21** detachably secured to said head portion. This head portion and connecting piece are preferably formed of cast steel as one integral unit. The head portion is relatively massive having a shaft or shank portion **23** of cylindrical configuration, one end **25** of which is drawn flat and provided with a centrally located internally threaded co-axially extending socket **26**. The head portion **19** at the other end **28** of the shaft portion **23** is of cubical shape having a laterally extending rectangularly shaped socket **30** formed therein, said socket being shaped so as to fittedly receive the end **12** of the handle **11**.

The connecting piece **20** is formed as an elongated relatively thick strap extending laterally from said head portion substantially intermediately between the sockets **23** and **30**, said connecting piece having a hole **32** formed at its free end **35**. This connecting piece is arcuately shaped in a longitudinal direction.

The point element **21** is preferably composed of a tough well resisted material, such as magnesium steel, and is of elongated shape having one end **38** formed as a point or preferred as a chisel, and is shaped at its other end **40** to the same configuration and dimension as the end **28** of the shaft section **23**. From this end **40** of the point element **21** projects a centrally located threaded boss **42** for engaging the threaded socket **26**, a lock washer **43** being provided between the head portion **19** and point element **21** so as to prevent inadvertent loosening of the latter under constant use.

The chipping attachment **18** is of course attached to the welder's brush **10** by fitting the end **12** of the latter into the socket **30**, then passing the bolt **44** through the opening hole **32** in the connecting piece **20** and thence through a suitably positioned hole **45** provided in the handle **11** for that purpose.

It will be seen that with the foregoing construction, the chipping attachment **18** may be easily and quickly secured to most conventional welders' brushes, the connection achieved being firm and substantial. Furthermore, in view of the positive connection between the handle **11** of the brush and the head portion **19** of the chipping attachment which permits the relative movement, there will be no tendency for the connection to loosen when the tool is used for chipping purposes.

It is also to be noted that the point element **21** may be easily and quickly replaced when it becomes worn or when it is necessary to change the point element having regard to the nature of the work to be formed, flats **46** being formed at the base of the point element to permit a crescent or like wrench to be employed for this purpose.

What I claim as my invention is:

1. A welder's tool comprising in combination a welder's brush having an elongated handle and having brush bristles extending in one direction from an edge thereof adjacent one end thereof and a chipping attachment comprising, a head section having a first socket formed therein for fittedly receiving said one end of the handle and having a threaded socket formed therein extending in a substantially opposite direction to the bristles of the brush, an elongated connecting piece connected to the head section at one end and extending along one side of said handle, means for detachably securing the connecting piece at its other end to the handle so as to maintain the handle in engagement with the head section, and an elongated point section having a point at one end and threaded at its other end for threaded engagement with said threaded socket.

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