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DOUBLE PURPOSE TOOL

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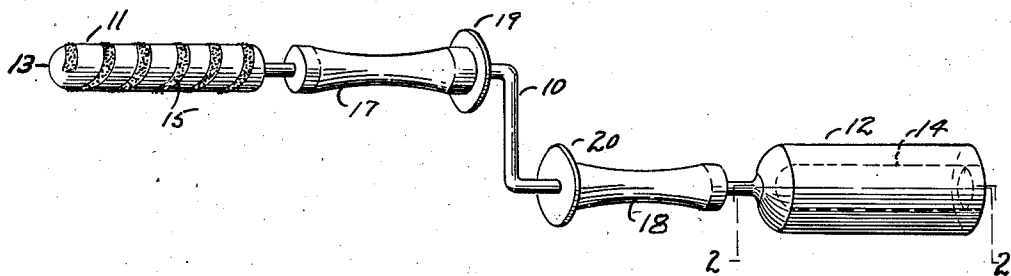


FIG. 1.

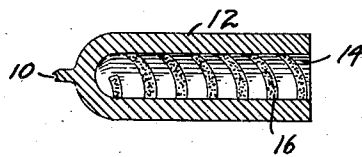


FIG. 2.

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DOUBLE PURPOSE TOOL

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6 Claims. (Cl. 51—206)

This invention relates to a double purpose tool and more particularly to an abrasive tool.

The principal object of the invention is the provision of a double ended abrasive tool particularly adapted for cleaning electric iron cord terminal sockets and electric iron connection plugs.

A further object of the invention is the provision of a double purpose abrasive tool, the abrasive sections of which are so formed as to render the device self-cleaning in operation.

A still further object of the invention is the provision of a double purpose abrasive tool, the handle portions of which are provided with means for readily enabling suitable pressure to be applied to the tool while in use.

A still further object of the invention is the provision of a simple, inexpensive, double purpose, abrasive tool, one end of which is adapted to clean or ream sockets and the other end of which is adapted to clean and polish prongs normally positioned in the said sockets.

The double purpose tool shown and described herein has been designed to facilitate the cleaning of electric iron cord plug sockets and electric iron prongs adapted to register therewith for the purpose of removing corrosion which in use interferes with the electric connection established between the sockets and the prongs and creates undesirable resistance in the electric circuit handicapping the efficient action of the heating element in the electric iron. The invention contemplates the provision of a simple, inexpensively formed tool which may be conveniently used in cleaning and reaming out the sockets in the iron cord plug and by reversing the tool, cleaning and polishing the prongs on the electric iron itself.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective view of the double purpose tool.

Figure 2 is a cross sectional elevation taken on lines 2—2 of Figure 1.

By referring to the drawing and Figure 1 in

particular, it will be seen that a double purpose tool has been designed and comprises a crank shaped body member 10, the opposite ends of which are provided with abrasive members 11 and 12, respectively, the abrasive member 11 being plug shaped and somewhat tapered toward the end section 12 thereof while the abrasive member 12 is of sufficient size to form a socket 14 therein adapted to receive an electric iron connection prong therein. The abrasive members 11 and 12 may obviously be formed wholly of abrasive material in a suitable binder or they may consist of appropriate shapes of any material having an abrasive coating on the outer and inner surfaces of the members 11 and 12, respectively. The abrasive material may be applied so as to completely cover the outer and inner surfaces of the members 11 and 12 or it may be applied in ribbon-like bands, as illustrated, and as indicated by the numerals 15 and 16, respectively. The inclination of the ribbon-like bands in their spiral formation about the members 11 and 12, respectively, is adapted to provide a thread-like action for removing loosened materials when the device is in operation. For example, the member 11 when inserted in a socket in an iron cord plug and revolved by means of the crank shaped body member 10 will form a self-cleaning tool as the ribbon-like abrasive material positioned thereon in a thread-like pattern causes the material removed in the socket to be moved outwardly thereof.

The abrasive member 12 may be formed with the ribbon-like threads of abrasive material therein if desired in a similar cleaning action will take place when the tool is used on one of the connection prongs of an electric iron.

In order that the double purpose tool and particularly the abrasive portion thereof may be revolved to perform an efficient cleaning and polishing operation, handle members 17 and 18, respectively, are provided and are positioned rotatably on the crank shaped body member 10. Each of the handle members 17 and 18 consists of a tubular structure which may be formed with a concave surface and each is provided with a flange on one end thereof, the flanges being indicated by the numerals 19 and 20. The flanges 19 and 20 are preferably formed integrally with the handle members 17 and 18 and are of suitable size to provide structures against which the fingers of the user may rest.

It will thus be seen that an extremely simple and practical double purpose tool has been de-

signed which may be effectively used in keeping an electric iron and its connecting wire cord plug in efficient electrical conduction condition as a few seconds' use of the tool from time to time will quickly and easily remove the corrosion forming on the electric iron connection prongs and/or in electric iron cord plug sockets.

Having thus described my invention, what I claim is:

1. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector.

2. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector, the plug and the socket forming handles of the tool.

3. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector, the abrasive surface of the said plug and socket formed in a spiral thread-like pattern.

4. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector, the plug and the socket forming handles of the tool, the abrasive surface of the said plug and socket formed in a spiral thread-like pattern.

5. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector, tubular handles rotatably positioned on said crank shaped body member adjacent each of said abrasive members.

6. A tool for cleaning two part electrical connectors comprising a crank shaped body member having an abrasive plug on one end adapted to engage a socket of said connector and an abrasive socket on the other end thereof adapted to receive a prong of said connector, the plug and the socket forming handles of the tool, flanged tubular members rotatably positioned on said crank shaped body member adjacent each of said abrasive members so as to form optional secondary handles.

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