

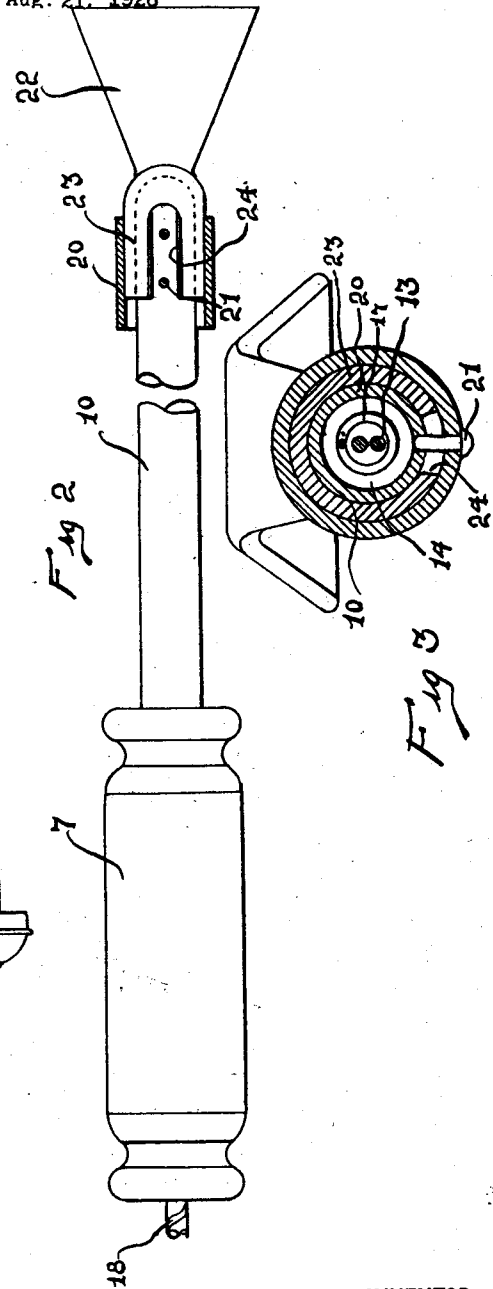
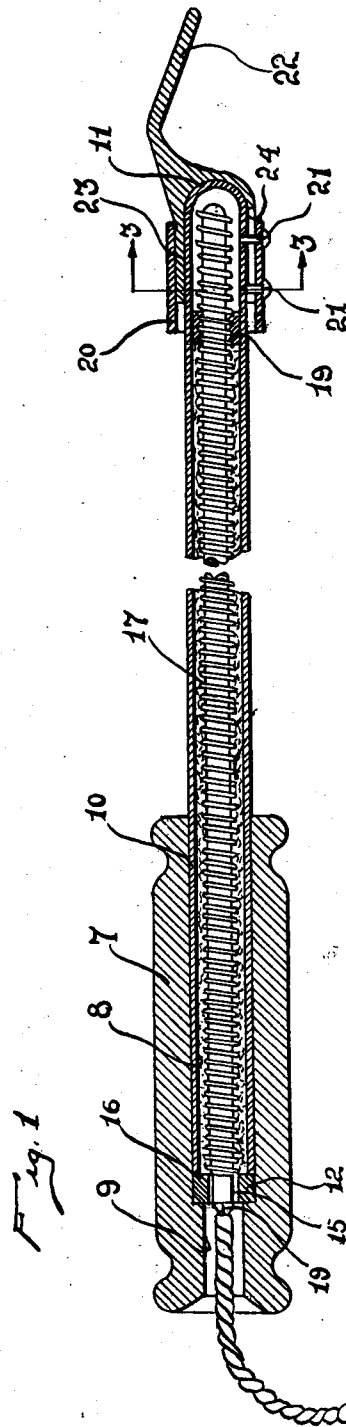
Jan. 17, 1928.

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1,656,256

BURNING IRON

Filed Aug. 21, 1926



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BURNING IRON.

Application filed August 21, 1926. Serial No. 130,724.

My invention relates to a new and useful improvement in a burning iron for repairing varnished surfaces and the like, and has for its object the provision of a burning iron of this class which will be simple in structure, economical of manufacture, and highly efficient in use.

Another object of the invention is the provision of a burning iron in which a uniform temperature may be maintained so that the danger of burning, through having the burning iron at too high a temperature, larger areas on the finished surfaces, is eliminated.

Another object of the invention is the provision of a burning iron, in the use of which a saving of labor results and more, efficient and satisfactory work is accomplished.

Other objects will appear hereinafter.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

The invention will be best understood by a reference to the accompanying drawings which form a part of this specification, and in which,

Fig. 1 is a central vertical sectional view of the invention.

Fig. 2 is a top plan view of the invention.

Fig. 3 is a sectional view taken on substantially line 3—3 of Fig. 1.

As shown in the drawings the invention comprises a handle 7 extending through which is a bore 8 reduced as at 9. Projected into the bore 8, preferably as a press fit, is a tube 10, which is closed at its end 11. The inner end of the tube 10 engages against an insulating supporting block 12, in which is supported heating element cores 13 and 14, each of which is suitably wound with wires and connected to the terminals 15 and 16, which project through the supporting block 12. The cores 13 and 14 are in turn wound and bound together by wire 17, which is also suitably connected to the terminals 15 and 16. Projected into the reduced bore 9 is a cord 18 provided with a suitable contact block 19 for attachment to a source of electrical energy. A supporting block 19 is mounted in the tube 10 adjacent its closed end for supporting the heating element comprising the cores wound as described.

It will be noted that this heating element extends well toward the closed end 11, so that the tube will be heated toward its closed end, suitable insulation insulating the

heating element from the tube adjacent the handle bearing end of the tube.

Mounted upon the tube 10, adjacent its closed end is a sleeve 20, which is connected to the tube by means of the rivets 21, or other suitable fastening means.

The burning tool may be of various shapes and sizes but in the drawings I have shown a typical burning tool comprising a plate 22 and a tubular shank 23, which is cut away as at 24. This shank is insertable between the tube 10 and the sleeve 20, the fit being a close one and the rear end of the sleeve 20 being somewhat more closely positioned relatively to the tube than is the forward end so that the further insertion of the tubular shank 23 into the sleeve 20 will effect a greater binding. The closed end of the tube 10 will serve to conduct to the shank of the burning tool the necessary heating to keep the blade portion 20 at the proper temperature, so that the efficiency desired is attained and the advantages enumerated provided.

The simplicity of the structure as well as the economical manner in which it may be manufactured are believed apparent.

While I have illustrated and described the preferred form of my invention, I do not wish to limit myself to the precise form of structure shown, but desire to avail myself of such variations and modifications as may come within the scope of the appended claims.

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

1. A burning iron of the class described comprising: a tubular holding member closed at one end; a heating element extended axially of said holding member interiorly thereof; supporting members for retaining said heating element in spaced relation to the inner surface of said holding member; a sleeve mounted on said holding member adjacent its closed end, the inner surface of said sleeve being in spaced relation to the periphery of said holding member; and a tool provided with a tubular shank for receiving said end of said holding member, said shank engaging between said sleeve and said holding member, said sleeve serving to clamp said tool on said holding member.

2. A burning tool of the class described comprising: a handle having a bore formed

therein, said bore being reduced adjacent one end; a supporting plug mounted in the larger portion of said bore adjacent said reduced bore; a heating element supported by
5 said supporting block and extending axially outwardly from said handle; a tubular member inserted in the larger bore of said handle and engaging at one end said supporting block, the opposite end of said tubular member being closed, said tubular member en-
10 casing said heating member; a supporting block mounted in said tubular member adjacent its closed end for supporting said heating member in spaced relation to the
15 inner surface of said tubular member; a sleeve mounted on the closed end of said tubular member in embracing relation thereto, the inner surface of said sleeve being spaced from the periphery of said tubular member;
20 and a detachable work tool provided with a tubular shank, said tubular shank engaging between said sleeve and the periphery of

said tubular member, said sleeve serving to clamp said work tool in position on said tubular member.

25 3. In a burning iron of the class described, a tubular holding member; a sleeve embracing said tubular holding member; means for mounting said sleeve on said holding member, the inner surface of said sleeve being in spaced relation to the periphery of
30 said holding member; a detachable work tool provided with a tubular shank having a longitudinally extending slot formed in said shank, said shank being adapted for
35 the reception of said end of said tubular member and projecting between said sleeve and said tubular member; said mounting means engaging in said slot, said sleeve serving to clamp said tool on said holding means.
40 In testimony whereof I have signed the foregoing.

JAMES H. WILSON.