Sept. 29, 1931. E. B. T. LAWRENCE 1,825,077

BURNINTOOL

Filed Oct. 1, 1929

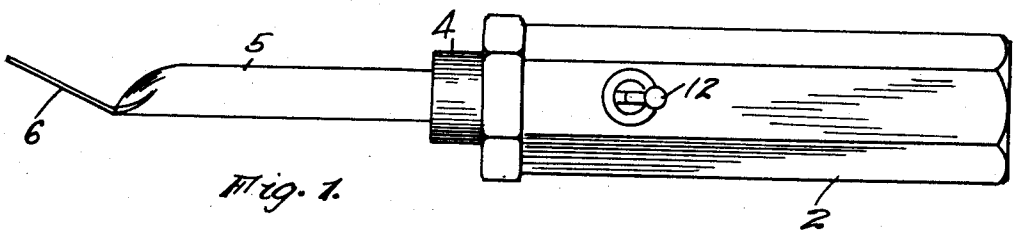


Fig. 1.

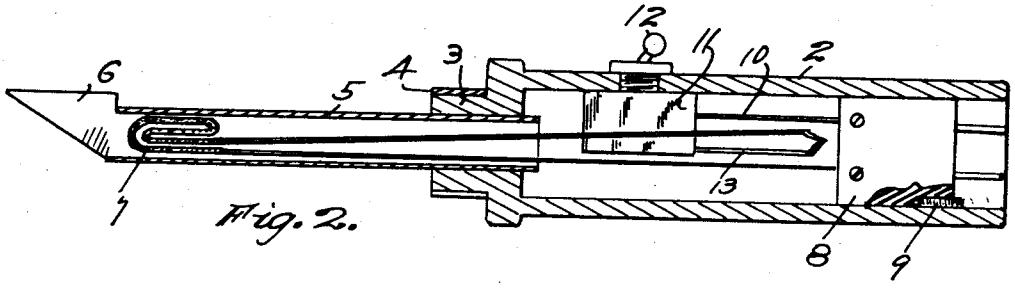


Fig. 2.

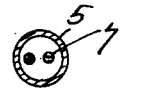


Fig. 4.

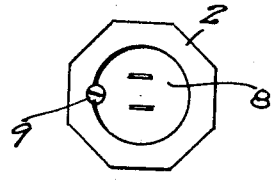


Fig. 3.

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Patented Sept. 29, 1931

1,825,077

UNITED STATES PATENT OFFICE

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BURNINTOOL

Application filed October 1, 1929. Serial No. 396,528.

This invention relates to furniture finisher's tools and more especially to a burnintool.

It is an object of the invention to provide a simple, practicable instrument which is electrically heated in a short space of time to the desired degree of temperature for the melting and application of a furniture wax.

It is a general object of the invention to eliminate the risk of fire by avoiding the use of open or naked flame apparatus of any kind, to save time and labor and to provide an instrument incorporating a control switch whereby the energizing current may be turned on and off at will for the economical use of the instrument.

A further object is to provide a burnintool of low cost and of substantial construction and efficient operation and ready application.

Other objects, advantages and details of construction, combination and mode of operation will be made manifest in the ensuing description of the herewith illustrative embodiment; it being understood that modifications, variations and adaptations may be resorted to within the spirit, scope and principle of the invention as it is more directly claimed hereinafter, and consisting of the disclosure and its substantial equivalent.

Figure 1 is a side elevation of the tool.

Figure 2 is an axial section of the tool.

Figure 3 is an end view of the handle end of the tool.

Figure 4 is a cross-section through the tool shank.

The instrument includes a tubular handle 2 preferably of wood or other non-electric and heated resistive material and for the purpose of preventing the tool rolling is of a non-circular exterior form; being here shown as octagonal. The handle has a reduced inner end 3 surrounded by a ferrule 4 on its hub portion whereby to form reinforcement for the secure holding of the inserted end of a tubular shank 5, which is preferably of copper and whose outer end is flattened to form a single ply tip or blade 6 here shown as of triangular form and inclined obliquely across the axis of the tool.

Within the tubular shank is an insulated heating unit 7, of fine resistance wire in the form of a loop one end of which is electrically connected to a terminal plug 8 whose body is jammed in the handle 2 by a set screw 9 run in between the bore of the handle and the surface of the plug 6.

A conductor 10 leads from the terminal plug 8 to a suitable switch 11 with an operating button 12 arranged exterior to the handle. From the switch extends a relative connection 13 to the resistance unit 7.

When the tool is to be used it is attached to a suitable electric extension cord, not shown, by application of the cord connector to the poles of the fixed plug 8 in the handle 2. The switch button 12 being thrown to a closing position causes the heated unit 7 to be energized with the result that the tubular shank 5 is brought to the required temperature in about one minute and is effective to melt or soften the furniture wax to which molding or effective tip 6 is applied in a manner well known to furniture finishers.

The design and construction and arrangement of the several parts of the tool are such that even though the operator fails to break the electric circuit whether at the switch 11 or at the connected plug 8 there is little or no danger of fire risk because the heating element and the heated tool tip do not become red hot.

What is claimed is:

In a device of the class described, the combination with a handle member and a tubular shank, on the distal end of which is a protected heating coil; of a burnin which consists of a single-layer, flexible blade forming an integral part of said tube and in the form of a right triangle having its longer side parallel to the axis of the tool and in a line beyond the side of the tool; the plane of the blade being oblique to and across the axis of the tool shank.

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