

No. 878,414.

PATENTED FEB. 4, 1908.

J. P. MÜLLER.
PYROGRAPHIC TOOL.
APPLICATION FILED FEB. 14, 1907.

Fig. 1.

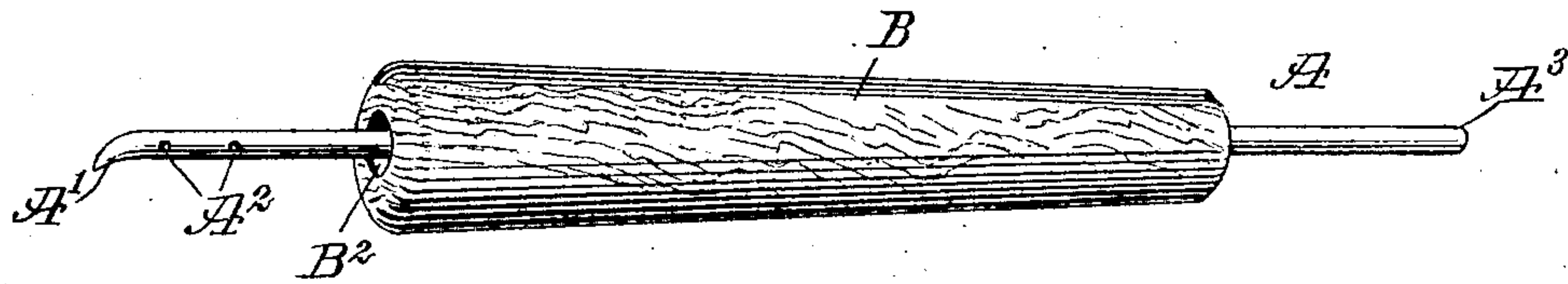


Fig. 2.

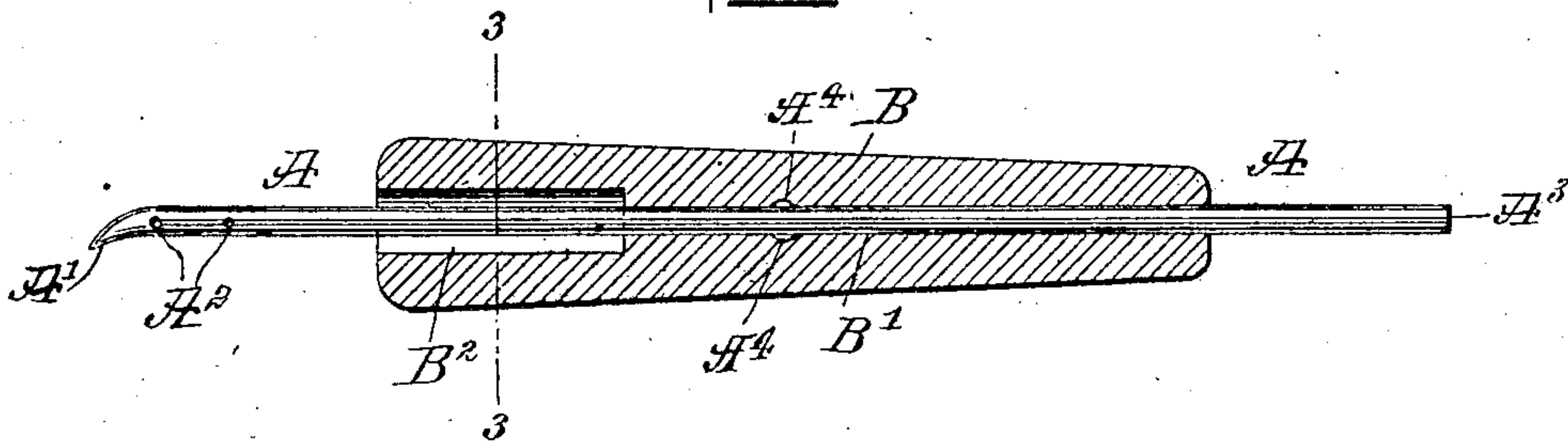
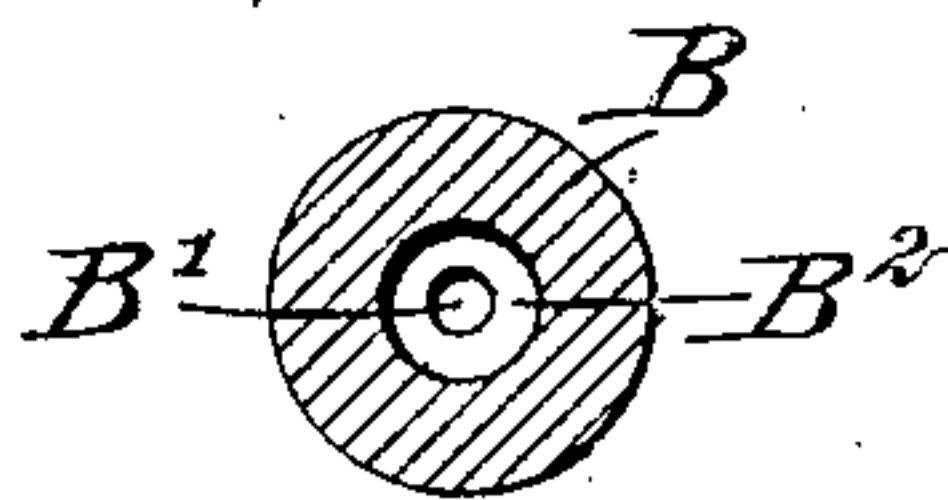


Fig. 3.



WITNESSES

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PYROGRAPHIC TOOL.

No. 878,414.

Specification of Letters Patent.

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Application filed February 14, 1907. Serial No. 357,309.

To all whom it may concern:

Be it known that I, JOHN P. MÜLLER, a citizen of the United States, and a resident of New Rochelle, in the county of Westchester and State of New York, have invented a new and Improved Pyrographical Tool, of which the following is a full, clear, and exact description.

The invention relates to thermocauters, and its object is to provide a new and improved pyrographical tool provided with a handle fitted on the tool to insure the insulation thereof against the heat of the tool and thus protect the operator's hand, at the same time allowing the operating point of the tool to project the desired distance beyond the forward end of the handle, for convenient manipulation of the tool on the part of the operator.

The invention consists of novel features and parts and combinations of the same, which will be more fully described herein-after and then pointed out in the claim.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement; Fig. 2 is a longitudinal sectional elevation of the handle, the tool being shown in section, and Fig. 3 is a transverse section of the handle on the line 3—3 of Fig. 2.

The tubular cauterizing tool A terminates at one end in the usual operating point A', adjacent to which are gas escape apertures A², as plainly illustrated in Figs. 1 and 2. The rear end A³ of the tool A is connected by a flexible tube with a suitable source of gas supply, to supply the forward end of the tool with a burning gas mixture so as to heat the point A' in the usual manner. The pyrographical tool A is provided with a handle B, preferably made of wood or a like material, and formed with lengthwise extending concentric bores B', B², of which the bore B' is the smaller, and the tool A fits snugly onto the wall of this small bore B' and is held therein by friction. The large bore B² which is at the forward end of the handle B extends

rearward a distance less than the length of the small bore, and through it extends centrally the tool A, so as to form with the wall of the bore B² an insulating air space to protect the handle B against the heat radiating from the forward end of the tool A.

By reference to Figs. 1 and 2, it will be seen that the forward end projects the desired distance beyond the forward end of the handle B, to allow the operator to conveniently manipulate the tool, at the same time the operator's hand having hold of the handle B is protected against the heat, as the handle is not liable to be unduly heated owing to the air space surrounding the portion of the tool A within the forward end of the handle B.

By the arrangement described, the handle B may be readily placed in position on the pyrographical tool A without requiring extra fastening and insulating devices. If desired, however, the tool A may be provided with struck up lugs A⁴, which owing to the nature of the material of the handle, as the handle is drawn upon the tool, compress the material, forming grooves, which close up after the passage of the said lugs, so that the handle is securely held on the tool by friction.

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

The combination of a pyrographical tool provided with lugs on its periphery intermediate of its ends, and a wooden handle on the tool and having bores of different diameters, the larger bore being at the inner end of the handle and of less length than the smaller bore, and the smaller bore being of a diameter about the same as that of the tool, whereby the lugs of the tool will compress the material of the handle so as to securely hold the handle on the tool.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN P. MÜLLER.

Witnesses:

THEO. G. HOSTER,
EVERARD B. MARSHALL.