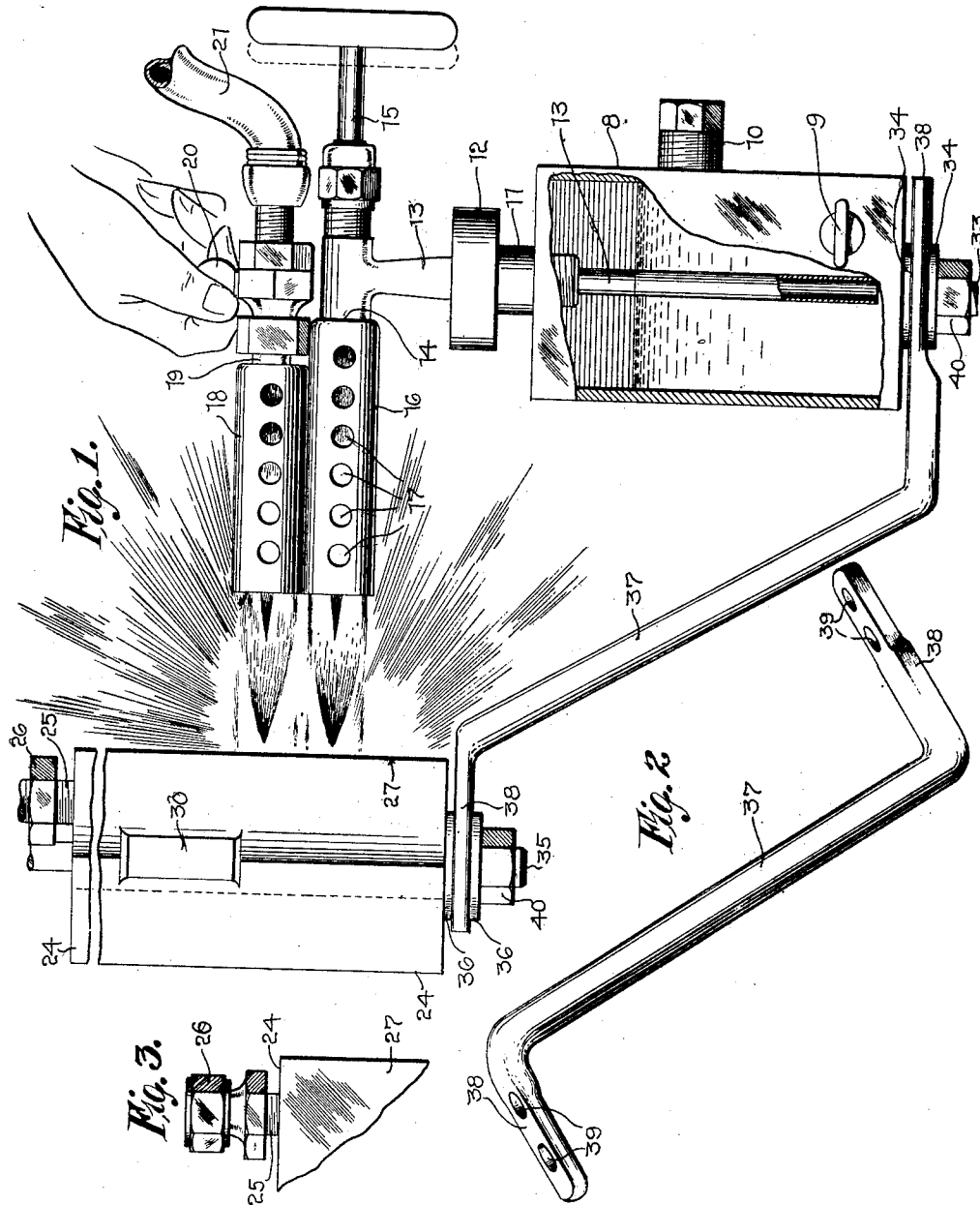


G. E. VOGT.
HEATING TOOL.
APPLICATION FILED MAR. 26, 1912.

1,107,188.

Patented Aug. 11, 1914.



WITNESSES
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GEORGE E. VOGT, OF TALLMADGE, OHIO.

HEATING-TOOL.

1,107,188.

Specification of Letters Patent.

Patented Aug. 11, 1914.

Application filed March 26, 1912. Serial No. 686,284.

To all whom it may concern:

Be it known that I, GEORGE E. VOGT, a citizen of the United States, residing at Tallmadge, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Heating-Tools, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to the subject of heating tools adapted for use in connection with repairs to pneumatic tires, or for heating soldering irons and the like, and the principal object of the same is to provide the tool with independent burners, one adapted for use in connection with vaporized fuel and the other adapted for use in connection with natural or other gas, and also to provide a novel connection between the heater and the fuel tank which permits relative movements of the same and also serves as supports therefor.

Preferred and practical embodiments of the invention are shown in the accompanying drawings, wherein:—

Figure 1 is a view in side elevation of the heating tool, partly broken away. Fig. 2 is a detail perspective view of the connecting and supporting bar for the heater and fuel tank. Fig. 3 is a fragmentary view in elevation of the heater.

Referring to the accompanying drawings by numerals, it will be seen that the improved heating tool comprises a fuel tank 8 that has a filling opening in the lower portion of one side that is normally sealed by a plug 9 and a nipple 10 projecting from another portion that is adapted to be engaged by a pump (not shown) to supply air under pressure to said tank. A sleeve 11 projects through the top of tank 8 and carries a drip cup 12. An outlet pipe 13 extends through sleeve 11 and terminates adjacent the bottom of tank 8. The upper end of pipe 13 is integral with or suitably connected to a burner 14 that is equipped with a needle, or other type of controlling valve 15, said burner being inclosed by a commingling tube 16 equipped with a plurality of transverse apertures 17 for the admission of air. A second commingling tube 18 that is substantially the same as tube 16 is carried by said tube 16 in parallel relation thereto and incloses a burner 19 equipped with a con-

trolling valve 20 and which has a flexible tube connection 21 with a source of natural gas or other fuel supply.

It is preferred to use gasolene for the burner 14 and said fuel is vaporized by burning gasolene in the drip cup 12 to heat the said burner and thereby vaporize the fuel. Burners 14 and 19 may be used simultaneously, as suggested in Fig. 1, or singly according to the amount of heat required. And as will be clear, the burner 19 can be used when in a shop or other place supplied with gas, and the burner 14 used when repairs are to be made to the tire of a vehicle that is on the road.

A hollow heater 24 is provided with a filling pipe 25 that is normally sealed by a cap 26. Heater 24 has a flat rear portion 27 against which the flames from the burners 14 and 19 contact.

The tank 8 has a central pendent threaded lug 33 at its bottom upon which a pair of washers 34 are mounted. Heater 24 is similarly equipped with a lug 35 and washers 36. A connecting bar 37 has an inclined body portion and flattened ends 38 which project at an angle to said body and are provided with transverse openings 39 for the reception of the lugs 33 and 35 of the tank 8 and the heater 24. The ends of bar 37 are interposed between the washers of the lugs 33 and 35. Nuts 40 engage the lugs 33 and 35 to retain the bar 37 in engagement therewith. As will be obvious, the bar 37 pivotally connects the tank 8 and heater 24 and the washers and the flat ends of said bar form a broad supporting surface for the same.

This invention has been shown and described as a portable vulcanizer, but it will be clear that the same can be used for heating tools, such as soldering irons.

What I claim as my invention is:—

A device of the class described comprising a receptacle, a sleeve extending from said receptacle, a drip cup at the upper end of said sleeve, an outlet pipe extending through said sleeve and into said receptacle, a commingling tube carried by the outer end of said pipe, means for controlling the passage of fuel thereto, a second commingling tube formed integral with said first mentioned commingling tube and carried thereby upon the upper face thereof, means for supplying

fuel thereto, means for controlling the pas-
sage of fuel therethrough, said commingling
tubes adapted to burn simultaneously for
producing a powerful heat, said second men-
5 tioned commingling tube adapted to burn
natural gas, and said first mentioned com-
mingling tube adapted to burn a liquid fuel.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

GEORGE E. VOGT.

Witnesses:

H. F. CASTLE,
PRUDELL JOY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."