No. 785,588. PATENTED MAR. 21, 1905.

H. W. BRENT & C. H. SESSIONS.

BRANDING IRON.

APPLICATION FILED MAY 10, 1904.

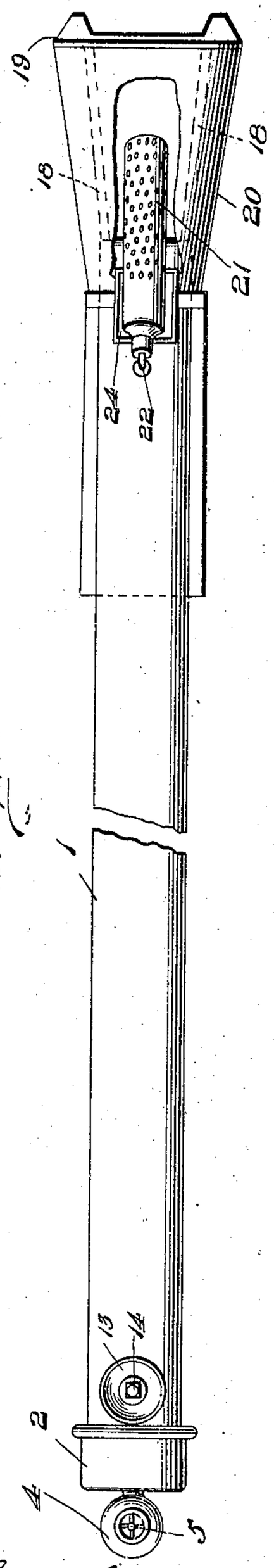

Fig. 1.

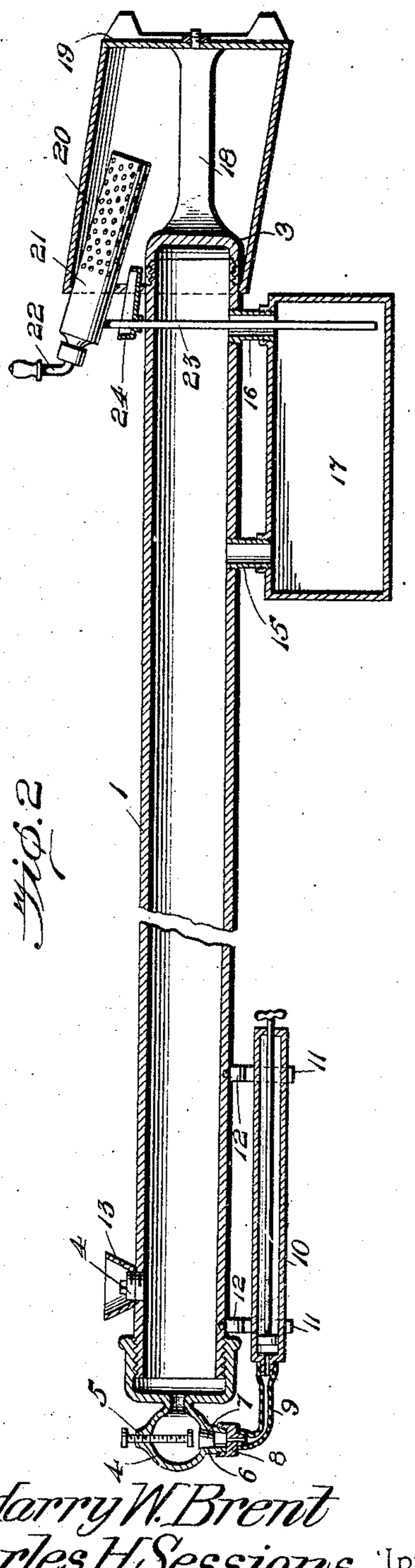

Fig. 2.

Witnesses
E. F. Stewart
W. H. Clarke.

Harry W. Brent
Charles H. Sessions Inventors
by Crowell & Co
Attorneys

No. 785,588. Patented March 21, 1905.

UNITED STATES PATENT OFFICE.

HARRY W. BRENT AND CHARLES H. SESSIONS, OF TOPEKA, KANSAS.

BRANDING-IRON.

SPECIFICATION forming part of Letters Patent No. 785,588, dated March 21, 1905.

Application filed May 10, 1904. Serial No. 207,261.

To all whom it may concern:

Be it known that we, HARRY W. BRENT and CHARLES H. SESSIONS, citizens of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented a new and useful Branding-Iron, of which the following is a specification.

This invention relates to self-heating branding-irons.

The objects of the invention are to improve, simplify, and cheapen the construction of such devices.

With these objects in view the invention resides in a branding-iron comprising a tube, end caps thereon, an air-pump removably attached to the tube and communicating with one of the end caps, a hood and branding-plate carried by the other end cap, a supplemental reservoir attached to the tube, and a burner connected with the reservoir and located inside the hood.

The invention also resides in the particular arrangement and combination of parts and in the details of construction hereinafter described with reference to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is a plan view of the improved branding-iron. Fig. 2 is a vertical section thereof.

Like reference-numerals indicate like parts in the different views.

The reference-numeral 1 represents a tube which is screw-threaded at its ends for the reception of screw-caps 2 and 3. The tube 1 is designed to serve as a main reservoir for gasolene or other liquid fuel. Attached to the rear screw-cap 2 is a globular chamber 4, in one side of which is mounted an adjusting-screw 5. Upon the opposite side of the globular chamber 4 is formed a valve-seat 6, provided with an inwardly-opening valve 7. By turning the adjusting-screw 5 one way or the other the extent to which the valve 7 shall open can be regulated. The periphery of the valve-seat 6 is screw-threaded to receive the metallic cap 8 of a rubber or other suitable hose 9, leading from a small air-pump 10, which is removably held in parallel relation with and juxtaposition to the tube 1 by fitting into spring-clips 11, supported on arms 12, screwed into said tube 1. Should the air-pump get out of order, as often happens, or should it be needed for any other purpose, it may be removed quickly from the device by detaching it from the spring-clips 12 and unscrewing its cap 8 from the valve-seat of the globular chamber 4. The air-pump may also be removed from its spring-clips during the pumping operation, if desired.

The removable pump is preferably disposed on the under side of the device in order that it may be out of the way.

In the upper portion of the tube 1, adjacent to the end cap 2, an inlet-perforation is formed. This inlet-perforation is surrounded by a funnel-shaped rim 13 and is closed normally by a screw-plug 14, which is removed when it is desired to fill the tube 1 with gasolene.

On the lower side of the tube 1, adjacent to the end cap 3, are disposed two short pipes 15 and 16, which lead from the reservoir 1 into a supplemental reservoir 17. The pipes 15 and 16 also serve to hold the supplemental reservoir 17 upon the main reservoir or tube 1.

Attached to the end cap 3 of the tube 1 are two outwardly-extending arms 18 18, which support at their outer ends a branding-plate 19, the arms 18 for this purpose extending through suitable perforations in the branding-plate and receiving nuts on their ends. The plate 19 may be easily and quickly removed when it is desired to attach a branding-plate bearing a different mark or brand.

Attached to the end cap 3 is a flared hood 20, which extends out to the branding-plate 19. Fitting into the upper end of the flared hood 20 is a burner 21, which is provided at its rear end with a needle-valve 22, controlling a supply-pipe 23, which leads transversely across the tube 1, through the pipe 16, and terminates in the supplemental reservoir 17. A drip-pan 24 is attached to the pipe 23 below the burner 21 for use in initially heating the burner.

It will be observed that the burner 21 directs its flame against the rear wall of the branding-plate 19, thus effectually heating said plate. The hood 20 serves to shield the flame of the

burner from wind or rain, and so enables the branding-iron to be employed in all kinds of weather.

The arrangement of the supplemental reservoir 17 and the supply-pipe 23 insures that the burner 21 will be constantly supplied with fuel, no matter how or in what position the branding-iron may be held by the operator. Furthermore, this supplemental reservoir permits sufficient fuel to be placed in the device to suffice for an entire day's branding, thus avoiding the necessity of refilling the iron during the hurry of branding cattle.

The device of this invention is strong, durable, and thoroughly efficient in operation. It is also made from few parts, and therefore is unlikely to get out of order, and is easy to reassemble when taken apart for cleaning. Furthermore, it is inexpensive to manufacture.

Having thus described the invention, what we claim is—

1. The combination in a branding-iron, of an elongated reservoir, a supplemental reservoir carried thereby and having a plurality of connections with the main reservoir, arms extending from the main reservoir, a hood carried by said arms, a burner extending within the hood and connected to the supplementary reservoir, and a branding-plate secured to the outer end of said hood.

2. The combination in a branding-iron, of a main reservoir, a branding-plate support, a burner, air-pump-supporting clips secured to the reservoir, and an air-pump detachably mounted in the clips and having a flexible connection with said reservoir.

3. In a self-heating branding-iron, a main reservoir, a pump, a flexible tube placing the pump in communication with the reservoir, pump-supporting means carried by the reservoir and to which the pump may be readily connected, a burner, and a supplemental reservoir connected to the main reservoir and to the burner.

4. A self-heating branding-iron comprising a main reservoir, having a funnel-shaped inlet, screw-caps on the main reservoir, a globular chamber on one of the screw-caps, an adjusting-screw therein, an inwardly-opening valve, an air-pump removably connected to the globular chamber, spring-clips on the main reservoir to hold the air-pump in position, a supplemental reservoir, pipes connecting the main and supplemental reservoir and holding the latter reservoir upon the former, a hood attached to one of the end caps, arms on said end cap within the hood, a branding-plate removably attached to the arms, a burner within the hood, a supply-pipe for the burner, said pipe extending transversely across the main reservoir, through one of the pipes thereon and terminating within the supplemental reservoir, and a drip-pan supported by the supply-pipe beneath the burner.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

HARRY W. BRENT.
CHARLES H. SESSIONS.

Witnesses:
S. H. KELSEY,
C. A. EBRIGHT.