

(No Model.)

A. B. BRAY.
BRANDING IRON.

No. 464,913.

Patented Dec. 8, 1891.

Fig. 1.

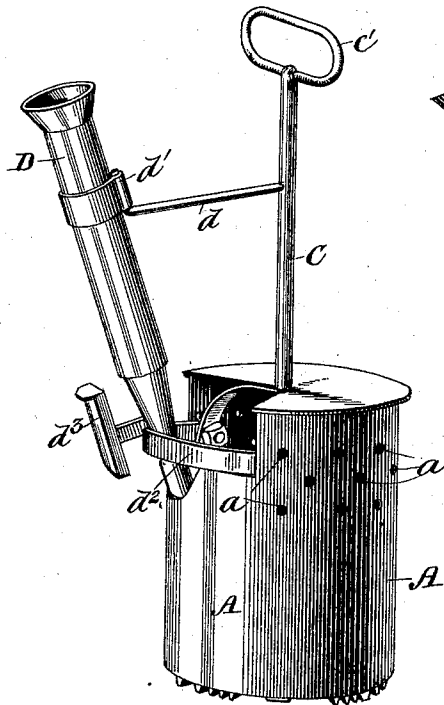


Fig. 2.

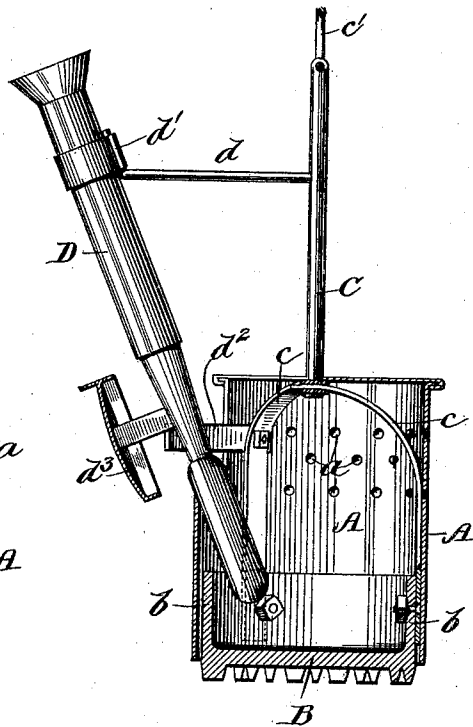
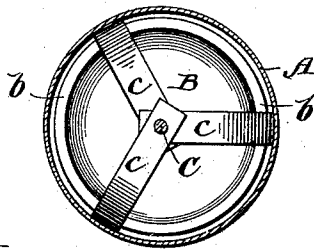


Fig. 3.



Witnesses:
Francis Bennett
Oplgar S. Taft

Inventor:
Austin B. Bray

UNITED STATES PATENT OFFICE.

AUSTIN B. BRAY, OF GLOUCESTER, MASSACHUSETTS.

BRANDING-IRON.

SPECIFICATION forming part of Letters Patent No. 464,913, dated December 8, 1891.

Application filed May 29, 1891. Serial No. 394,582. (No model.)

To all whom it may concern:

Be it known that I, AUSTIN B. BRAY, a citizen of the United States, residing in Gloucester, county of Essex, and State of Massachusetts, have invented a Portable Branding-Iron, of which the following is a specification.

The object of my invention is to provide a portable branding-iron that can be used for the purpose of branding any kind of a wooden box, cask, or barrel, and any of the uses to which a branding-iron can and may be applied.

In the accompanying drawings, Figure 1 is a perspective view of the invention. Fig. 2 is a vertical section and partial elevation of Fig. 1, and Fig. 3 is a top view of the back of the branding-plate and the branching legs.

My invention relates to improvements in portable branding-irons which are heated by a naphtha or other fluid reservoir torch and in which the branding-plate is always heated to a uniform degree of temperature when in use.

My object is to improve the construction and operation of heating a portable branding-iron; and my invention consists of a portable branding-iron continuously heated by the flame of an automatic naphtha or other fluid reservoir torch and in the several other novel features of construction and operation hereinafter described, and set forth in the claims hereto annexed.

In the accompanying drawings, A represents an outer cylindrical jacket of metal open at its bottom and partially open at its side and top and provided with perforations *a* to assure perfect combustion, which forms a combustion chamber or reservoir. This reservoir is provided at its lower open end with a branding-plate B, of slightly less circumference than the lower edge of the said reservoir, the branding-plate being provided on its back at its outer periphery with a rearwardly-extending attaching-flange *b*, to which are secured by bolts or rivets the downwardly-extending legs *c* of the handle C, which hold the branding-plate in position, and is provided on its face with suitable branding-letters. The lower ends of the legs *c* preferably extend down into the space formed between the inner lower edge of the outer inclosing jacket A and the periphery of the branding stamp or plate, while their upper ends are suitably secured to the handle C at the center of the top of the

combustion-chamber A. The handle C extends upwardly above the top of the combustion-chamber a considerable distance and terminates in a hand-grasp *c'*. At a suitable distance above the top of the combustion-chamber and below the hand-grasp a laterally-extending arm *d*, having an angularly-bent outer end, is secured to the handle for engaging with a band or loop *d'* on the upper part of the torch D, as shown. A brace or support *d''* extends laterally through the side opening in the combustion-chamber A from the ends of two of the legs *c*, the support being held to the legs by a bolt and nut or otherwise suitably secured and adapted to hold the lower or fire end of the torch. The torch D may be of any approved style of reservoir-torch adapted to hold and burn naphtha or any other suitable burning fluid or oil, the essential requirement of the torch being that it be provided with a reservoir for containing the fluid and means for regulating the supply of oil or fluid to the burning end of the torch. A suitable torch for this purpose would be that shown in Letters Patent No. 382,558, granted May 8, 1888; but any other suitable construction might be adopted and subserve the same purpose. The torch is provided near its lower end with a handle *d'''* to be used in removing the torch from the combustion-chamber, and which also subserves as a support to the torch, as it is adapted to rest on the edge of the support or brace *d''*. By filling the reservoir of the torch with naphtha fluid or with any suitable oil and inserting the lower end of the torch into the combustion-chamber close to the back of the branding plate or stamp and applying a light to the lower end of the torch a continuous and powerful heat is obtained and the branding-plate kept constantly heated to a high degree for branding boxes, barrels, and the like, and by the formation of a space between the branding-plate and the inclosing jacket and the perforations at the upper part of the combustion-chamber a very perfect combustion is secured. It will also be observed that by forming the torch with a reservoir for oil or naphtha fluid, which is attached to and can be transported with the branding-iron, a portable hand branding-iron is produced which can be carried from place to place with great convenience

to the articles to be stamped, instead of bringing the articles to be branded to the branding-iron, as is the case with many large devices used for this purpose.

5 What I claim, and desire to secure by Letters Patent, is—

1. In a portable hand branding-iron, the combination of the outer inclosing perforated jacket forming a combustion-chamber which
10 is open at its bottom and partially open at its top, a branding-stamp of less diameter than the lower end of the outer inclosing jacket, and a torch, all arranged and operating substantially as and for the purpose described.

15 2. In a portable hand branding-iron, the combination of the outer inclosing perforated jacket forming a combustion-chamber which is open at its bottom and partially open at its top, a branding-plate arranged at and of
20 less diameter than the lower end of the outer inclosing jacket and provided with attaching-flanges, supporting-legs attached at their lower ends to said plate and at their upper

ends to or near the lower end of the handle, and a reservoir-torch, substantially as described.

3. In a portable hand branding-iron, the combination of the outer inclosing perforated jacket forming a combustion-chamber which is open at its bottom and partially open at its top, a branding-plate arranged at and of less diameter than the lower end of the outer inclosing jacket and provided with attaching-flanges, supporting-legs attached at their lower ends to said flanges and at their upper ends to the handle of the iron, a reservoir-torch, a brace or support extending laterally from the inclosing jacket for holding the lower end of the torch, and a handle provided with a laterally-extending arm for supporting the upper end of the torch, substantially as described.

AUSTIN B. BRAY.

Witnesses:

FRANCIS BENNETT,
D. S. PRESSON.