

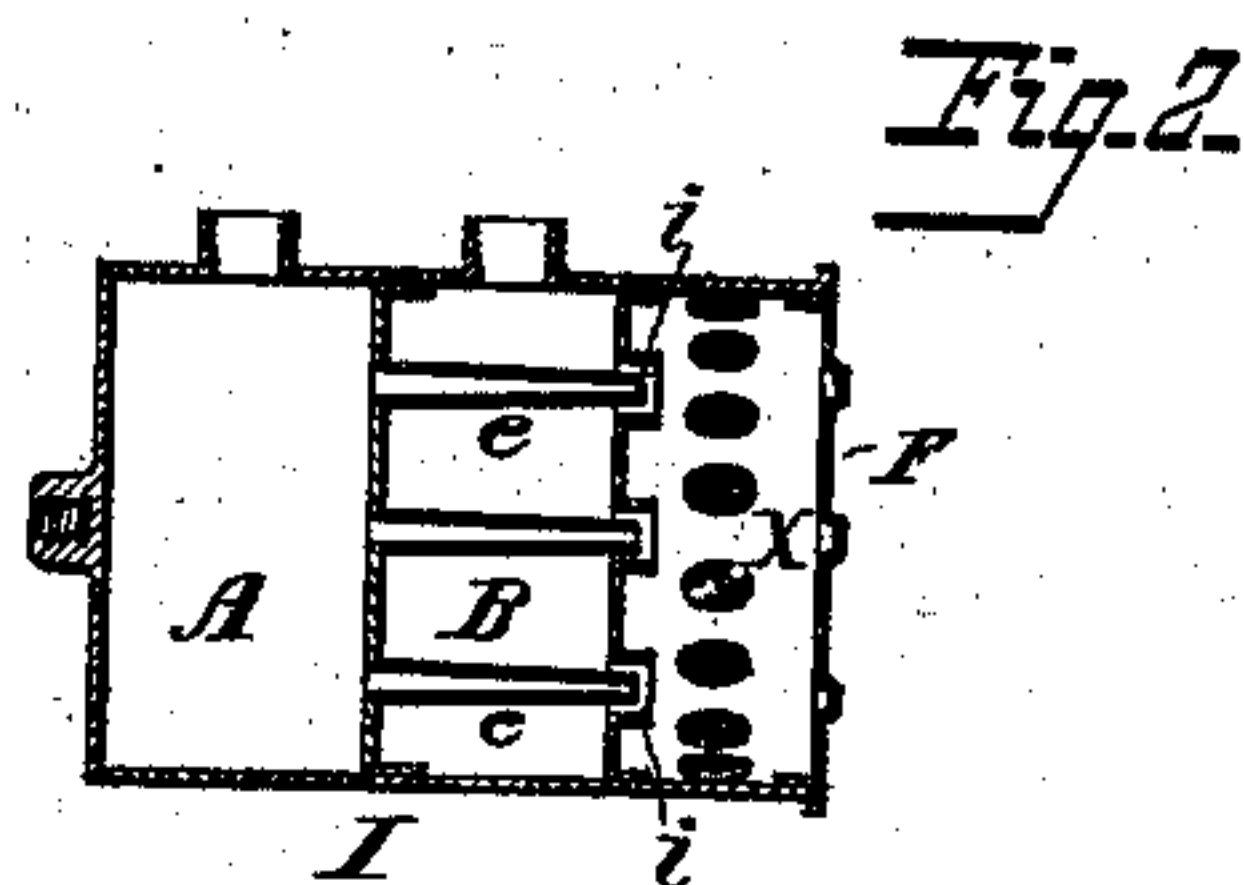
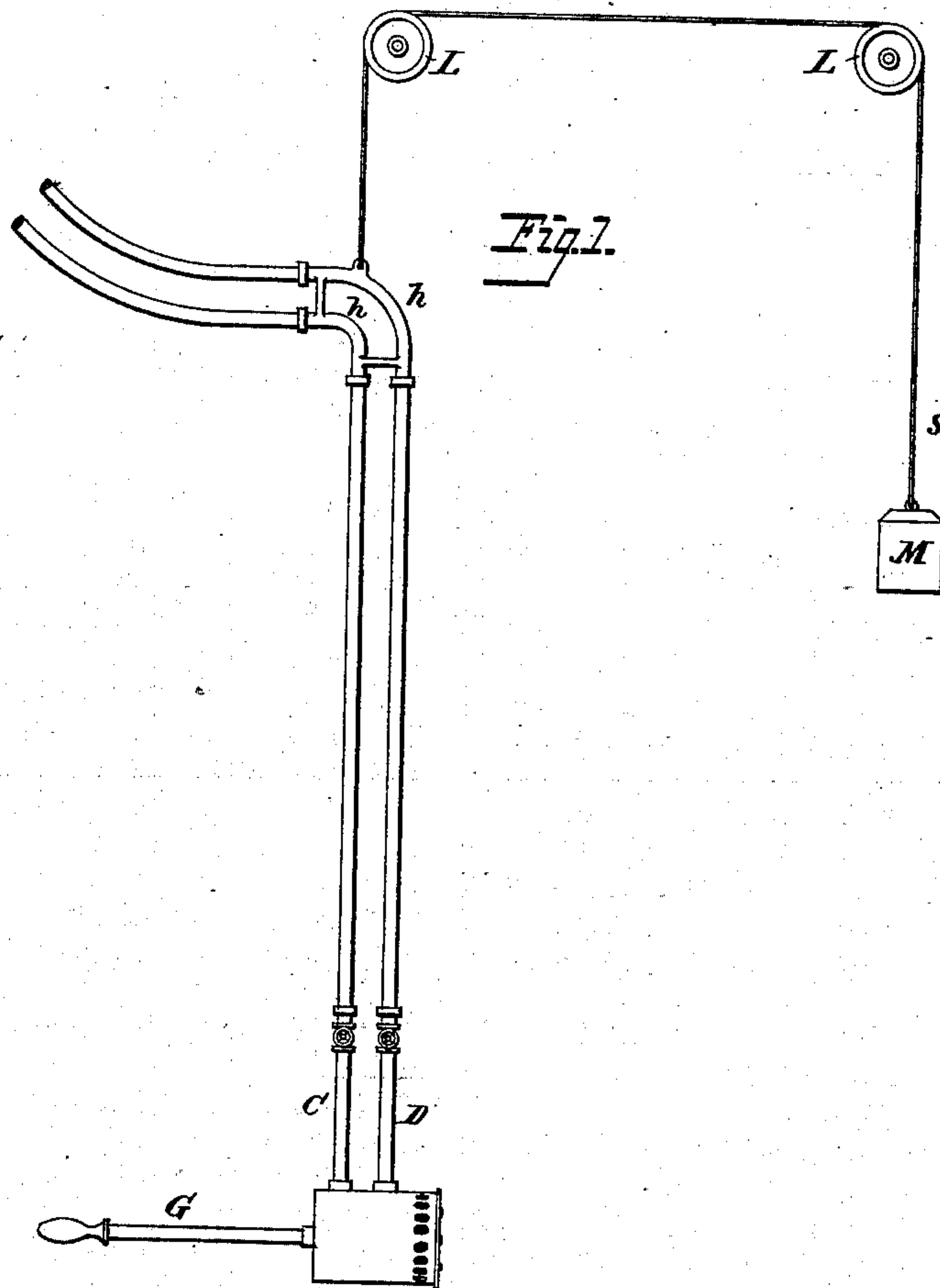
(No Model.)

J. S. SMITHSON.

BRANDING DEVICE.

No. 278,621.

Patented May 29, 1883.



Attest:

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UNITED STATES PATENT OFFICE.

JOSEPH S. SMITHSON, OF CHICAGO, ILLINOIS.

BRANDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 278,621, dated May 29, 1883.

Application filed September 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH S. SMITHSON, a subject of the Queen of Great Britain, now residing in Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Branding Devices, of which the following is a specification.

This invention is an apparatus for conveniently and economically branding the carcasses of hogs or other objects; and it consists of a peculiar branding device and appliances whereby it is suspended, while capable of being moved to apply the branding-plate in the proper manner.

In the drawings, Figure 1 is a side view of the improved branding apparatus, and Fig. 2 is a section of the branding device.

A and B are two compartments of a short cylindrical metal box, I. Pipes C and D supply the compartments A and B with air and gas, respectively, and tubes e from the compartment A extend through flanged openings i at the side of the compartment B and into a mixing-chamber, X, where they are allowed to mix and are burned, thereby heating a thin branding-plate, F, which constitutes the outer side of the chamber X. The plate F may be capable of adjustment to and from the burners. With a small branding-plate one burner-tube may be found to give sufficient heat and distribute it sufficiently, while the plate of a large brand would be more suitably heated by a multitubular burner of the kind shown in the drawings.

G is a handle, by means of which the workman using the brand applies it forcibly against the side of the suspended carcass.

In order that the branding device may have the mobility required to apply the plate squarely upon the suspended carcass, the pipes C and D, supplying the gas and air, are made to subserve the purpose of suspending it flexibly and

adjustably. Thus said pipes are made of flexible tubing, except at the bends h h, and the pipes and branding device are counterbalanced by a weight, M, attached to a cord, s, connected to the bends and passing around pulleys L L. This counter-weight enables the workman using the brand to make an easy and immediate vertical adjustment of the appliance, while the flexible tubing enables him to turn or swing the branding device as desired. Flexible tubing connects the bends with the gas or gasoline reservoir or pipes and with a blower supplying air.

The character of the branding device may be varied and the air-blast may be dispensed with; but the device described is most effective, as the air-blast insures a rapid and intense heating of the plate.

I am aware that a branding device has been counterbalanced by means of a cord and weight, and do not claim this; but my invention is distinguished from such devices by the fact that I utilize the gas-conducting tube as a suspensory, whereas heretofore in all cases the gas-tube has lain upon the floor, where it is liable to injury, to become fouled, and interferes with the passage of cars, loads, &c.

I claim—

A branding apparatus consisting of a branding device in which a plate is heated by a gas-burner, a flexible tube conducting gas to the burner and constituting a flexible suspensory for the device, and a counter-balance connected to said tube, all as set forth.

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

JOS. S. SMITHSON.

Witnesses:

F. G. ENSIGN,
THEODORE REESE.