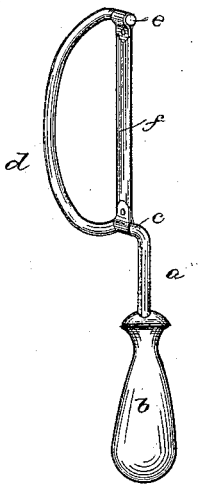
(No Model.)

J. H. FINCH.

DEVICE FOR CLEANING GAS BURNERS.

No. 342,592. Patented May 25, 1886.



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UNITED STATES PATENT OFFICE.

JAMES H. FINCH, OF BOSTON, MASSACHUSETTS.

DEVICE FOR CLEANING GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 342,592, dated May 25, 1886.

Application filed March 6, 1886. Serial No. 194,252. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. FINCH, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Devices for Cleaning Gas-Burners, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawings representing like parts.

This invention has for its object to construct a simple and efficient implement for cleaning the slots of gas-burners; and it consists of a blade set or mounted in a suitable frame, to thereby rigidly hold the same, the frame being so shaped as to both permit the blade to have ready access to the tip of the burner being cleaned and to serve as a limiting stop or guard, to prevent the blade being withdrawn from the slot as it is moved to and fro.

The drawing shows in elevation an implement embodying this invention.

The implement consists of a piece of stiff wire bent at right angles to form a shank portion, *a*, to which is preferably applied a hand-piece, *b*, of suitable non-heat-conducting material—such, for instance, as wood. The strip of wire is again bent at right angles near the end of the shank portion *a*, opposite the hand-piece *b*, to leave a short portion of the wire, which forms an offset or shoulder, *c*, the portion thus bent to leave the shoulder being bent to form a curved or semicircular frame, *d*, the extreme end of the said frame *d* being turned down at right angles, as at *e*, similar to the shoulder or offset *c*. The strip of wire being thus bent to form the shank portion and curved frame, as shown and described, the shoulder *c* and end piece, *e*, will lie in substantially a plane with the axis of rotation of the shank portion. The blade *f* consists of a thin flat piece of metal of such length that the opposite ends thereof may pass around the shoulder *c* and the end piece, *e*, the ends of the blade being then riveted or otherwise secured to itself to form a rigid connection. The blade *f*, thus mounted in the frame *d*, forms a continuation of the shank portion *a* and the diameter of the curved frame *d*, and lies at right angles to the plane of the said curved frame. The curved frame *d* thus serves as a rigid support for the blade, and by passing around the burner or tip permits the blade to be easily inserted in the slot thereof, and as the shoulder *c* and end piece, *e*, are of larger diameter than the width of the slot of the tip the blade cannot be withdrawn therefrom when moved to and fro.

It is obvious that the frame *d*, instead of being curved, as described, may be variously shaped, the only necessity being that it support the blade and not inconvenience the working of the implement.

The device is simple and efficient and cannot readily get out of order.

I am aware that a blade having a re-enforced back piece has been employed for this class of work; but as it is frequently necessary to clean the tip while the gas is burning the blade soon becomes heated, and is thus rendered objectionable.

By the device herein described any number of tips may be cleaned while the gas is burning, and although the blade becomes heated to a more or less greater extent the implement may be handled without injury to the operator and with facility.

I claim—

1. As a new article of manufacture, the implement herein described for cleaning gas-burners, which consists of the shank portion *a*, and frame formed from a single piece or strip of wire and bent substantially as described, and the blade *f*, the opposite ends of which are connected with said frame, all substantially as set forth.

2. As a new article of manufacture, the blade *f* and curved supporting-frame *d*, as described, in which said blade is mounted, the shank portion *a*, and the hand-piece, all substantially as and for the purpose set forth.

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

JAMES H. FINCH.

Witnesses:

BERNICE J. NOYES,

F. CUTTER.