

(No Model.)

W. H. HALLOWELL.  
FIRE SUPPORT FOR GRATES.

No. 599,075.

Patented Feb. 15, 1898.

Fig. 1.

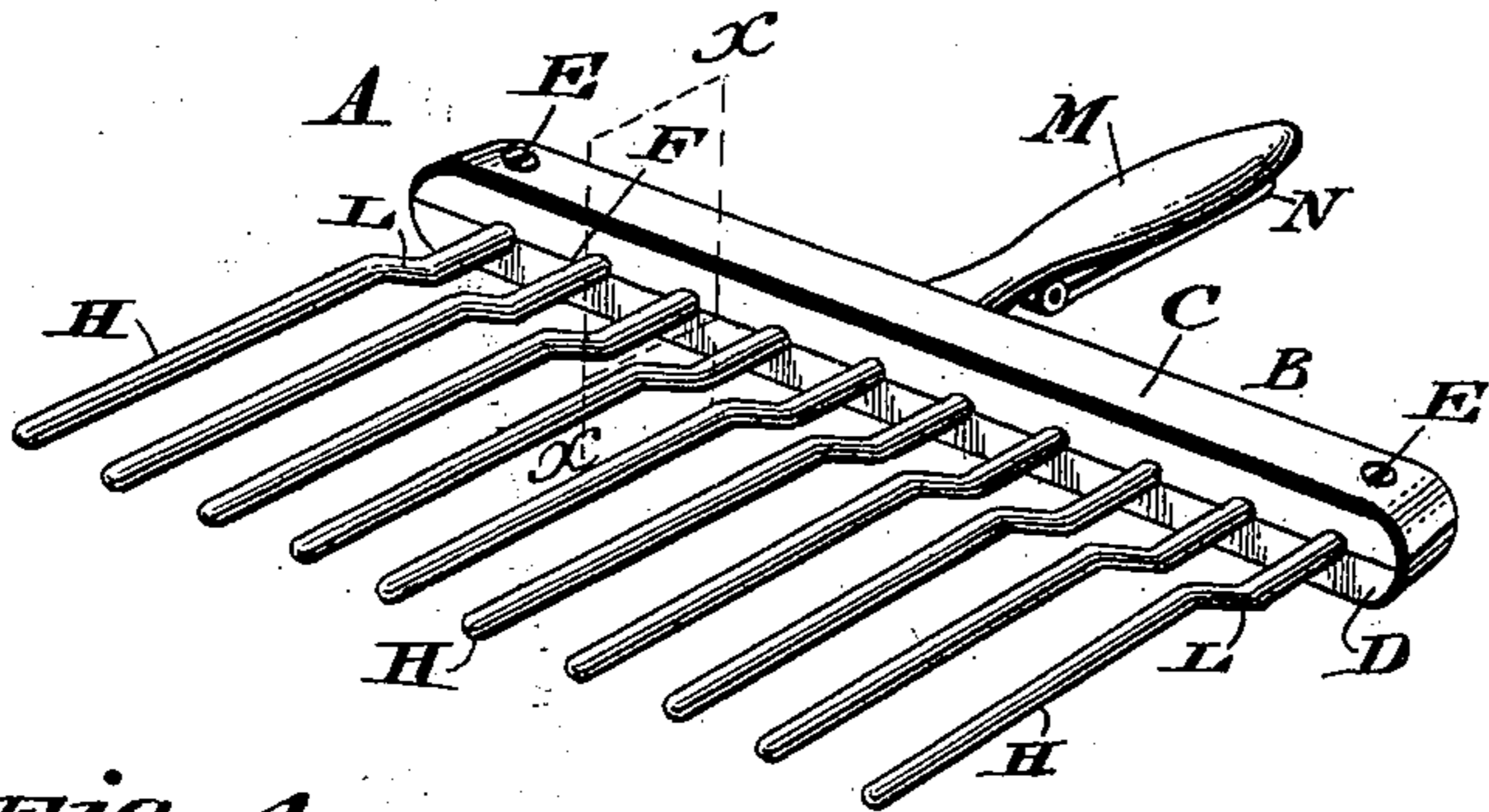


Fig. 4.

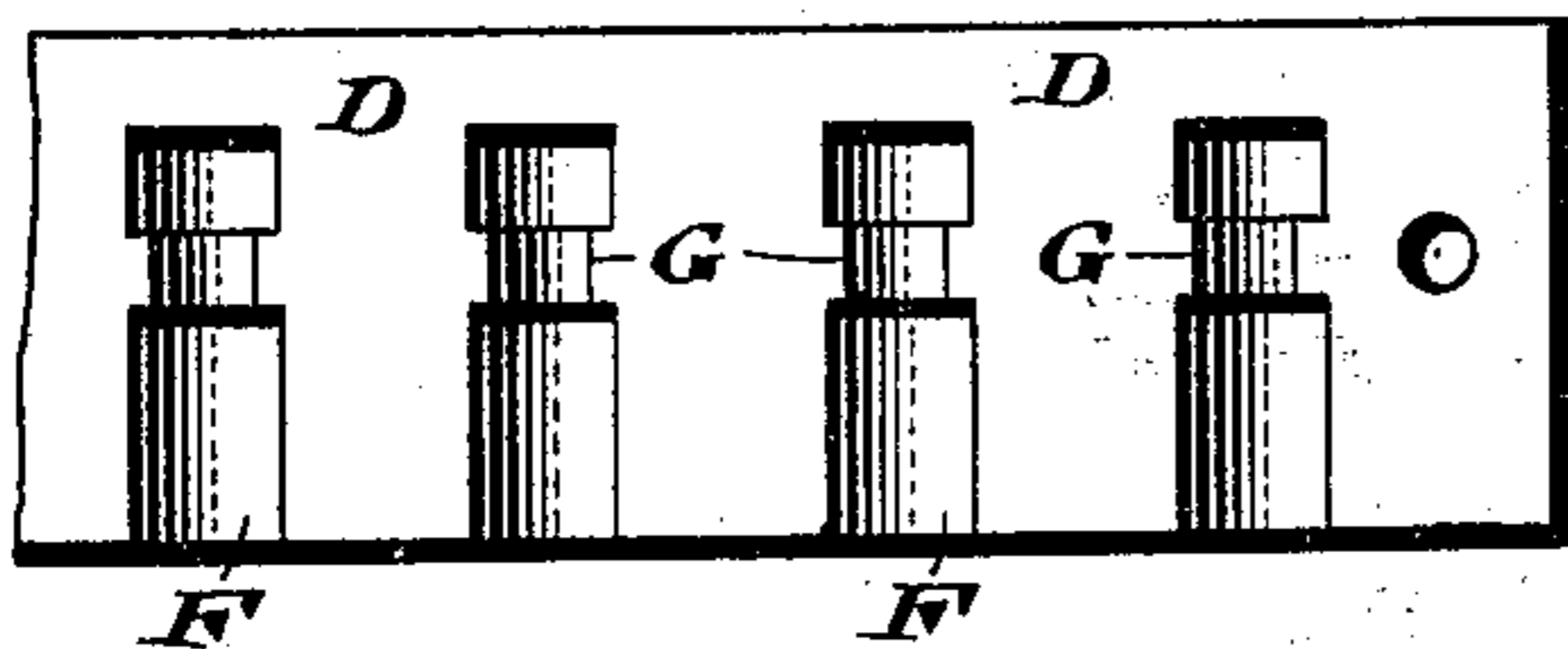


Fig. 3.

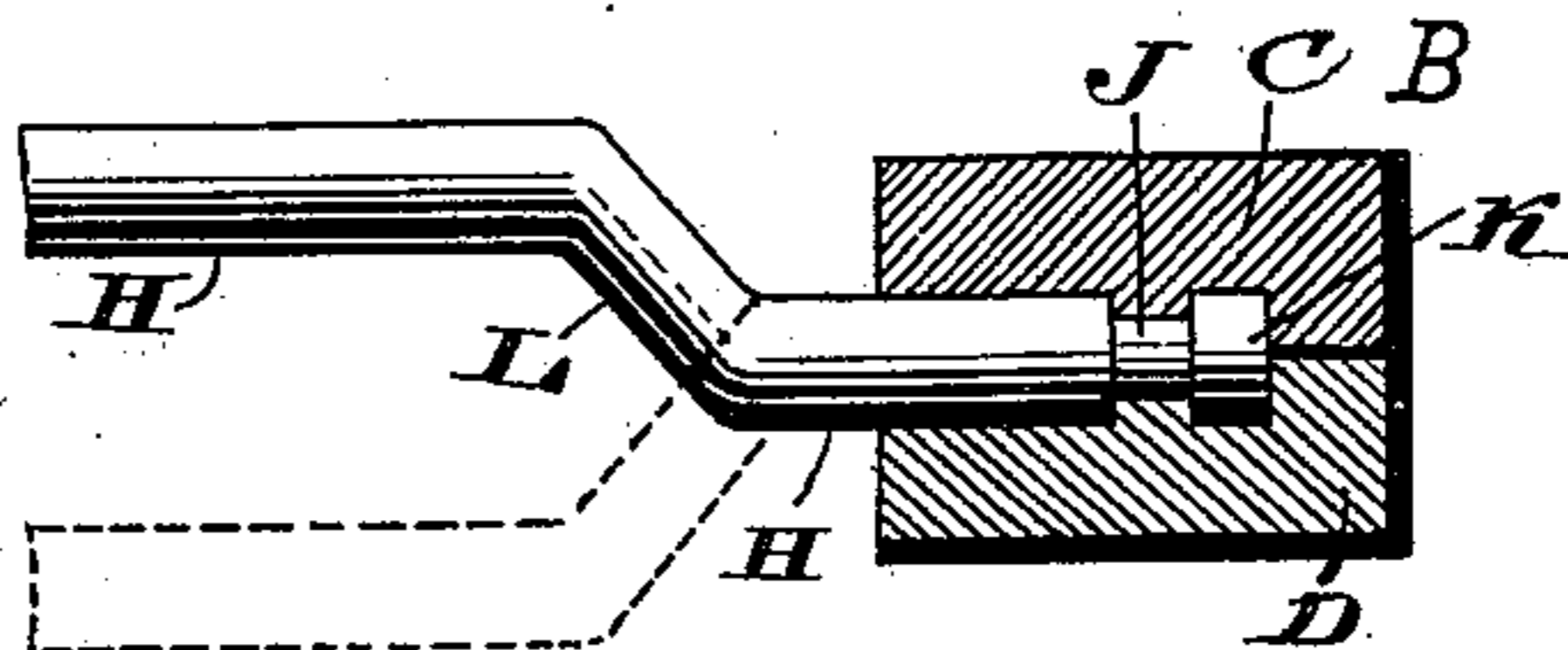
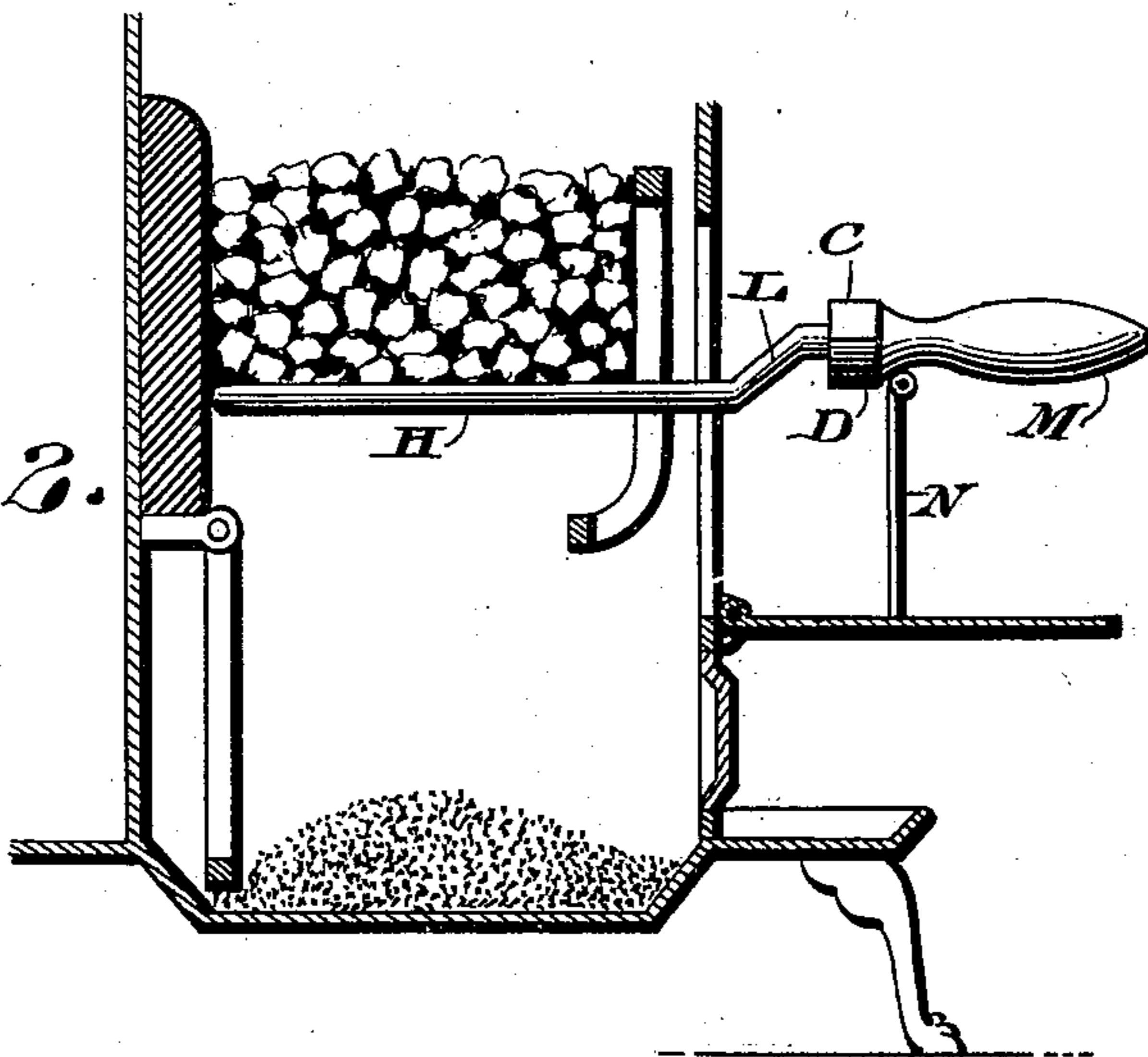


Fig. 2.



WITNESSES

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## FIRE-SUPPORT FOR GRATES.

SPECIFICATION forming part of Letters Patent No. 599,075, dated February 15, 1898.

Application filed July 17, 1897. Serial No. 644,879. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENRY HALLOWELL, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Fire-Supports for Grates, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an improvement in fire-supports for grates, whereby the same may be quickly and easily adjusted to fit varying grate-bars.

It further consists of novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a perspective view of the device embodying my invention. Fig. 2 represents a vertical section of a portion of a stove and side elevation of a fire-support in operative position. Fig. 3 represents a vertical sectional view in the plane  $x x$ , Fig. 1, on an enlarged scale. Fig. 4 represents a plan view of a portion of the device detached.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a fire-support for grates, the same consisting of the cross-bar B, formed of the plates C and D, which are secured together by any suitable means, in the present instance by screws E. The inner faces of each of the plates are provided with the grooves or sockets F, each of which has projecting thereinto the tongues G.

H designates tines, rods, or bars, each of which is provided with a head K, connected thereto by the neck J, and has the bent portion L, forming an offset or deflections, so that the outer ends of the bars are not in line with the heads K.

The tines H are adapted to be placed between the plates C and D and fit into the sockets F, the neck J being engaged by the tongues G, so that when the plates are secured together said tines H will be held in place, but can be turned readily, the said tongues G preventing the removal of the said tines H.

M designates a handle which is suitably secured to said plates and has pivoted thereto a support N.

The operation is as follows: The parts hav-

ing been assembled as seen in Fig. 1, the device is ready for use, and the tines are adapted to pass between the grate-bars above the ashes, the live coal thus being supported upon the tines, it being noted that the fire-supporter is held by the operator. The bottom of the grate may now be opened and the ashes deposited in the bottom of the stove, range, &c., the live coal meanwhile being held in position as seen in Fig. 2, after which the bottom of the grate may be again closed and the fire-supporter removed, when the coal will fall upon the grate and be supported thereon.

When it is found that the grate-bars from use have become out of shape or have warped, so that the distances between the bars vary, the fire-supporter may still be employed by simply turning the tines H, as required, so that the distance therebetween will correspond to that between the grate-bars. The offset L permits quite a throw of the ends of the tines H, so that the same may be adjusted to fit different-sized grates.

When the device is in position, the support N may be lowered and rest upon the door of the grate, as shown, thus assisting in supporting a fire-supporter.

It will of course be evident that in place of the neck J, I may use simply a head on the end of the bars, the use of which will be the same as before.

I desire to make such changes as may come within the scope of my invention, and therefore do not desire to be limited in every instance to the construction herein shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fire-supporter for grates formed of a cross-bar and tines mounted rotatably therein having an offset to permit adjustment of the same.

2. A fire-supporter for grates having a cross-bar and tines rotatably mounted therein and provided with offsets for adjustment of the same.

3. A fire-supporter for grates, formed of a cross-bar, which consists of plates secured together, tines rotatably secured in said plates

and having offsets to permit adjustment of said tines.

4. A fire-supporter for grates, consisting of a sectional cross-bar, tines having offsets and  
5 provided with heads rotatably held in said sectional cross-bar.

5. A fire-supporter for grates, consisting of

a cross-bar with tines, having offsets and rotatable in said cross-bar, a handle for the latter and a support connected with said handle. 10

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Witnesses:

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