F. BEAUFAIT.

Fire-Kindler for Steam Fire-Engines.

No. 163,723.

Patented May 25, 1875.

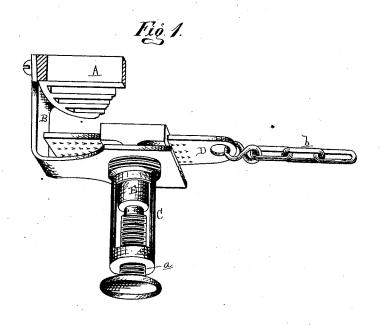
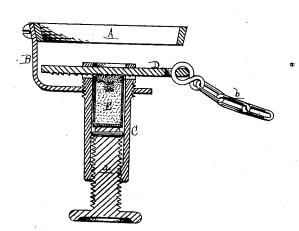


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRANK BEAUFAIT, OF DETROIT, MICHIGAN, ASSIGNOR TO HIMSELF AND JAMES BATTLE, OF SAME PLACE.

IMPROVEMENT IN FIRE-KINDLERS FOR STEAM FIRE-ENGINES.

Specification forming part of Letters Patent No. 163,723, dated May 25, 1875; application filed December 11, 1874.

To all whom it may concern:

Be it known that I, FRANK BEAUFAIT, of Detroit, in the county of Wayne and State of Michigan, have invented an Improved Automatic Fire-Lighter for Steam Fire-Engines, of which the following is a specification:

The object of my invention is to provide an attachment to the boiler of a steam fire-engine under the grate thereof, by means of which the fuel will automatically be kindled in the boiler-furnace of the engine as it moves out of the house.

The invention consists in a port fire-carrier located under the grate, and in combination therewith a serrated plate to be attached to the floor of the engine by a cord or otherwise to ignite the moving port fire-match.

Figure 1 is a perspective view of the device as attached to a boiler of a fire-engine. Fig. 2 is a central longitudinal vertical section of the same.

In the drawing, A represents a portion of the grate under the furnace of the upright boiler of a steam fire-engine, under the fore part of which is secured, by means of a bracket-plate, B, a vertical tube, C, in the shape of a cylinder having a screw, a, tapped in its lower end, while its upper end is a T-head, having a horizontal longitudinal slot through

it, in which is inserted a friction plate, D, serrated on the under side, and which plate is connected at its rear end by a cord or chain, b, to the floor of the engine-house, or to some object behind the engine when it is in the position usually occupied in the house. The cylinder has a slot on one side, through which to introduce a short thick port fire-match, E, after the screw is run down, after which the screw is turned up until the phosphorous tipped upper end is in contact with the frictionplate. When the engine leaves the house to proceed to a fire the match will be ignited by the friction-plate, and a flame from twelve to fifteen inches high will be projected up between the grate-bars into the fuel long enough to ignite it thoroughly, thereby saving valuable time.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with a fire-grate, of the match-tube, the friction-plate, and the screw, the same being adapted to receive and ignite a friction port-fire, as specified.

FRANK BEAUFAIT.

Witnesses:

H. S. SPRAGUE, WM. P. SPAULDING.