

J. McSHANE.
Fire-Kindlers.

No. 213,768.

Patented April 1, 1879.

Fig. 1.

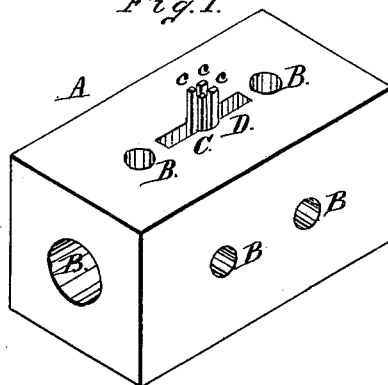


Fig. 2.

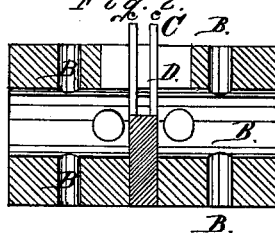
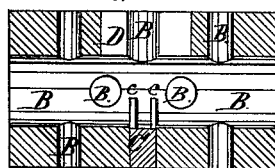


Fig. 3.



Witnesses:

Geo. H. Knight.
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UNITED STATES PATENT OFFICE.

JOHN McSHANE, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN FIRE-KINDLERS.

Specification forming part of Letters Patent No. **213,768**, dated April 1, 1879; application filed October 24, 1878.

To all whom it may concern:

Be it known that I, JOHN McSHANE, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Fire-Kindlers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement consists in an inflammable block with holes extending through it and having a match inserted in it.

My improvement also applies to the form of the match, which consists of two or more points sufficiently separated to cause easy and sure combustion.

In the drawings, Figure 1 is a perspective view. Fig. 2 is a longitudinal section of same. Fig. 3 is a longitudinal section, showing a modification in the position of the match.

I prefer to form my block of a mixture of pulverized coal, sawdust, rosin, and a little petroleum.

The block A may be of any form and size. It has holes B extending through it to allow the free passage of air, so that it will burn readily when covered with other fuel.

C is a match covered with any suitable material for ignition by friction. This match may be made to project from the outside of the

block, as shown in Figs. 1 and 2, or it may be inclosed within the block and its end project into one of the holes or hollow places within the block, as shown in Fig. 3. In the latter case it would be ignited by the introduction of a stick made rough with sand or any other suitable material.

The match, to insure its lighting and to prevent its going out after lighting, is slotted, as shown, so as to have a number (two or more) of projecting ends, *c*, which will mutually assist in combustion of each other.

I prefer to form slots D in the block, to give free access for air to the match.

I claim as my invention—

1. The fire-kindler composed of a brick or block formed of inflammable substances and a match, C, inserted therein, for the purpose set forth.

2. The block A, having perforations B and match C.

3. The block A, with perforations B and match C, having slotted ends *c c*, substantially as described.

JOHN McSHANE.

Witnesses:

SAML. KNIGHT,
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