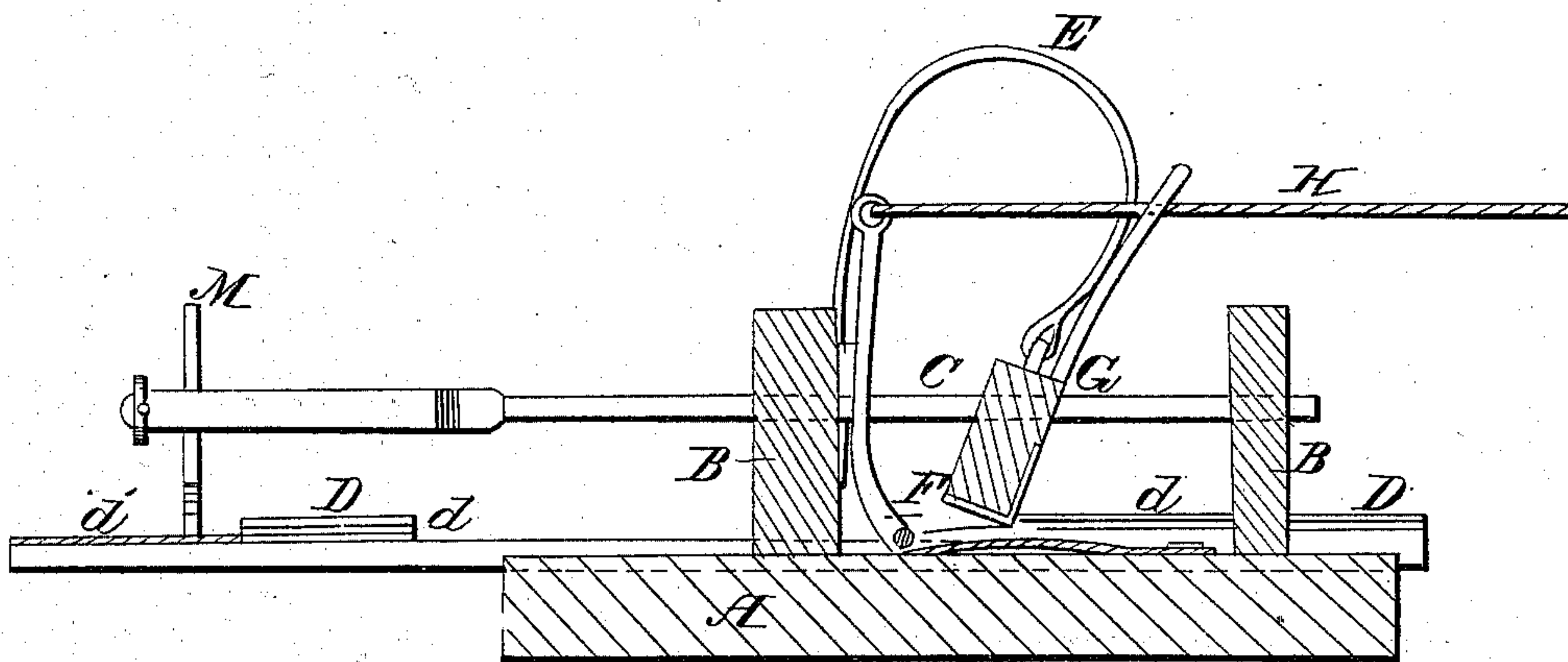


M. E. EZELL.

Fire Kindler.

No. 87,654.

Patented March 9, 1869.



Witnesses

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Letters Patent No. 87,654, dated March 9, 1869.

FIRE-KINDLER

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, M. E. EZELL, of Hatchechubbee, in the county of Russell, and State of Alabama, have invented a new and improved Fire-Kindler; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which my invention is represented by a longitudinal vertical section.

The object of this invention is to provide, for public use, a simple, cheap, and convenient instrument by which a fire can be kindled in the stove, or a lamp or gas-jet lighted at night, without the necessity of any one's rising from bed for the purpose.

By means of the same instrument, the opening of a door or window may be caused to light the fire, lamp, or gas, the apparatus thereby operating as a burglar-alarm.

The general principles of the machine thus operating, may be briefly described, as follows:

First, a metallic arm, or rod, is provided, which holds a match nearly or quite in contact with the torch, lamp-wick, or gas-jet. Another rod, having its extremity roughened, or tipped with sand-paper, slides out, till the roughened part is in contact with the composition on the end of the match. A spring tends to throw the latter rod back quickly, when it has been thus slid out, and thereby immediately to strike the match and kindle the fire or light; and to prevent this result, a latch is provided, which stops the spring from thus straightening itself.

A wire or cord extends from the latch to the bedside, or, when the instrument is used as a burglar-alarm, to the door or window. By gently pulling this wire or string, the latch is lifted or thrown out of the way, and the spring liberated, whereupon the latter instantly strikes the match, and kindles the fire or light.

These parts, in connection with a suitable frame to support them, constitute the whole apparatus.

The device is so cheap as to be within the reach of everybody, and so simple in construction and operation that it can readily be adjusted and used, even by a child, as a fire-kindler or a burglar-alarm, without danger of accident, and with certainty of operation.

In the drawings—

A represents the frame, which may be of wood, metal, or other suitable material, and which is provided with one or more upright standards, B B.

A rod, C, of iron or other incombustible material, extends from the standards B B, out to a considera-

ble distance from the end of the frame, and is provided with a suitable device, at its outer extremity, for receiving and holding a friction-match, M.

Below the rod C, another rod, D, is so adjusted that it is capable of being slid out till the end is in contact with the composition on the end of the match.

The rod D is notched, as seen at *d d*, and its outer end roughened, or covered with sand-paper, as seen at *d*.

A spring, E, properly affixed at one end to the frame A, or standards B B, is so arranged, that when the rod D is slid out, one of the notches *d d* strikes against the spring, or against a piece of wood or other material, G, attached to the free end of the spring, and bends the latter back.

When the spring is thus sufficiently bent, a spring-catch, or latch, F, rises behind its free end, or behind the block G, and operates, to prevent the spring from unbending. When the parts are in this position, the roughened end *d* of the rod is in contact with the match M.

A cord, H, extends from the latch to the bedside, or to the door or window, as above described. By gently pulling this cord, the latch F, is disengaged from the spring E, and the latter forces the rod D violently backward, causing the friction of the part *d* against the match M, to light the latter, and thereby to kindle the fire, or light the lamp or gas-jet that may be in contact therewith.

Of course, when a gas-jet is used, the cord that runs to the latch F, (or an independent cord or string,) must be connected with the stop-cock of the gas-pipe, so that the same pull, or a previous one, shall turn on the gas.

Having thus described my invention,

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

1. The rod C, provided with a match-holding device at its end, in combination with the rod D, provided with a roughened end or surface, substantially as and for the purpose specified.

2. The combination of said two rods, C and D, with a spring, E, a spring-catch, F, and a cord or wire, H, substantially as and for the purpose described.

To the above specifications of new and improved invention, I have signed my name, on this, the 26th day of December, 1868.

M. E. EZELL.

Witnesses:

VICTOR FLAGMANN,
CHAS. A. PETTIT.