(No Model.)

P. PESCHONG.

FIRE KINDLER.

No. 517,060. Patented Mar. 27, 1894.

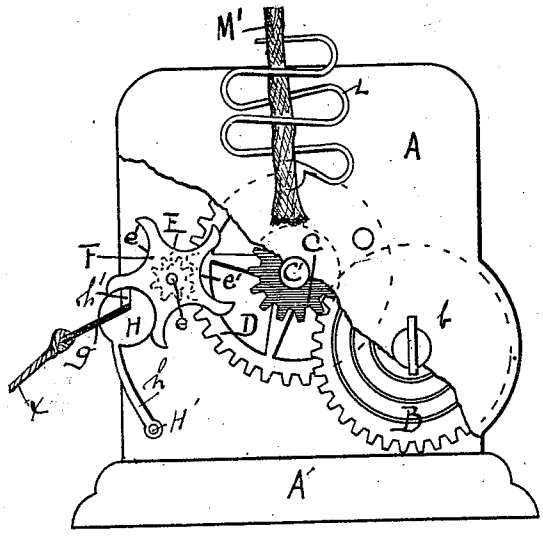

Fig. 1.

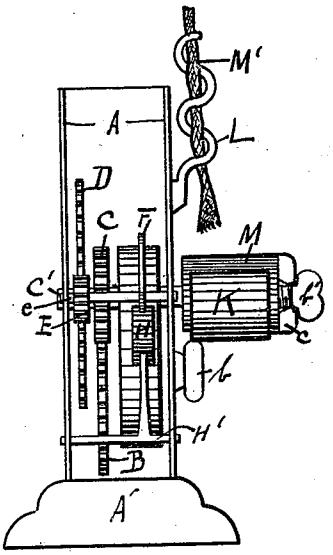

Fig. 2.

Fig. 5.

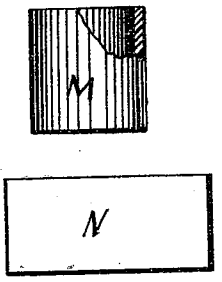

Fig. 4.

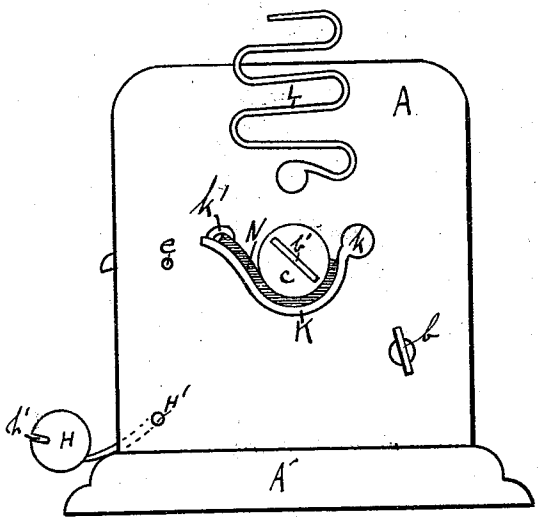

Fig. 3.

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FIRE-KINDLER.

SPECIFICATION forming part of Letters Patent No. 517,060, dated March 27, 1894.

Application filed March 20, 1893. Serial No. 467,516. (No model.)

To all whom it may concern:

Be it known that I, PETER PESCHONG, of Alton, in the county of Sioux and State of Iowa, have invented certain useful Improvements in Fire-Kindlers; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention has relation to a new and novel mechanical fire kindler, the object being to provide a device that shall be simple of construction, positive in its operation, and readily adjustable.

In the accompanying drawings, Figure 1 shows a front view with parts broken away. Fig. 2 is an end elevation thereof. Fig. 3 is a front view of the kindler complete, while Figs. 4 and 5 show the tubular and flat igniting devices used in my apparatus.

A, A, represents a suitable housing, preferably having a weighted base A′, within which is mounted a simple train of gearing, comprising the spring driver B and the toothed wheels C, D, and E. The shaft of the main driving gear projects upon one side and is provided with the thumb piece *b*, by means of which the gearing is wound up. The gears C and D are mounted upon the shaft C′ projecting beyond the housing in front, which has its end threaded to hold the retaining nut *b′* as shown in Fig. 2. The gears C and B mesh, while the gear D engages the small gear E.

Mounted upon the shaft *e*, is an irregular latch plate F, having a number of semi-circular seatings *e′* within which the latching disk H is adapted to seat as shown in Fig. 1. The disk H is secured by means of the pivoted arm *h*, to the shaft H′, and is further provided with an incision *h′* within which the link *g*, is adapted to be held as shown. The spring driving gear B is at the working and the disk H at the free end, of my train of gearing.

The shaft C′ is provided with the disk *c*.

Secured to the face plate of the housing, is a curved spring K secured by means of its shank *k* and provided at its free end with the flange or lip *k′*. This spring K is adapted to work upward and against the shaft C′. In front the housing is further provided with the flexible fuse support L of wire, by means of which the fuse is held.

I use in combination with my fire starter an igniting tube M, composed of a paper body or stock, saturated with paraffine and covered with a mixture of chlorate of potash, sulphite of antimony and gum water. This ignition tube is held upon the shaft C′, and is secured between the disk *c* and the nut *b′*. An abrading sheet N of paper stock, covered with phosphorus and gum water, is used to ignite the tube M. A fuse M′ is held above the tube M, of a suitable length and led to the grate, or the fire pot of the stove.

The operation of my device is as follows: The fire kindler, which is of a size convenient to be readily handled, is wound up by means of the thumb piece *b* of the spring gear B and wound up to a proper tension, when the gearing is locked, by means of the disk H which is placed within one of the seatings of the latch plate F, which prevents the gearing unwinding. The spring K is next pressed downward so that the ignition tube can be placed, when finally the abraiding sheet N is placed upon the spring and held by means of the lip *k′*, as shown in Fig. 3. A starting strand *x* has been previously attached to the disk H, and connected to the hammer of an ordinary alarm clock, which has been set to ring at a certain hour. The kindler has been placed within or below the grate, and as the alarm starts at the appointed time, it drags the disk from its seating within the plate F releasing the train of gearing which in revolving grinds the tube M upon the sheet N, which promptly becomes inflamed and ignites the fuse and this in turn communicating with the kindling starts the fire.

The device is noticeable because of its extreme simplicity, and

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

1. In a fire starter the combination of the housing A, a train of gearing comprising the meshes marked B, C, D, E, and latch plate F, the latch arm *h*, an enlarged hub upon the

central shaft C, provided with the disk *c*, and nut *b'*, the spring plate K working against said hub and provided with the retaining lip *k'*, the inflammable tube M, and abrading sheet N, all substantially as and for the purpose set forth.

2. The combination with a suitable housing of a spring actuated projecting main driving shaft provided with a suitable pinion, of a train of gearing meshing with said pinion, a latch plate actuated and forming a part of said train of gearing, a pivoted latch disk adapted to be removably held within said latch plate to stop or start said train of gearing, a spring secured to said housing adapted to work against said projecting main driving shaft and detachably hold an abrading sheet covered with a suitable inflammable substance, an igniting tube secured to said projecting shaft and covered with an inflammable substance adapted to work against said abrading sheet in combination with a suitable holder, adapted to support a fuse, all arranged to operate substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

PETER PESCHONG.

Witnesses:
S. T. PARSONS,
F. A. PARSONS.