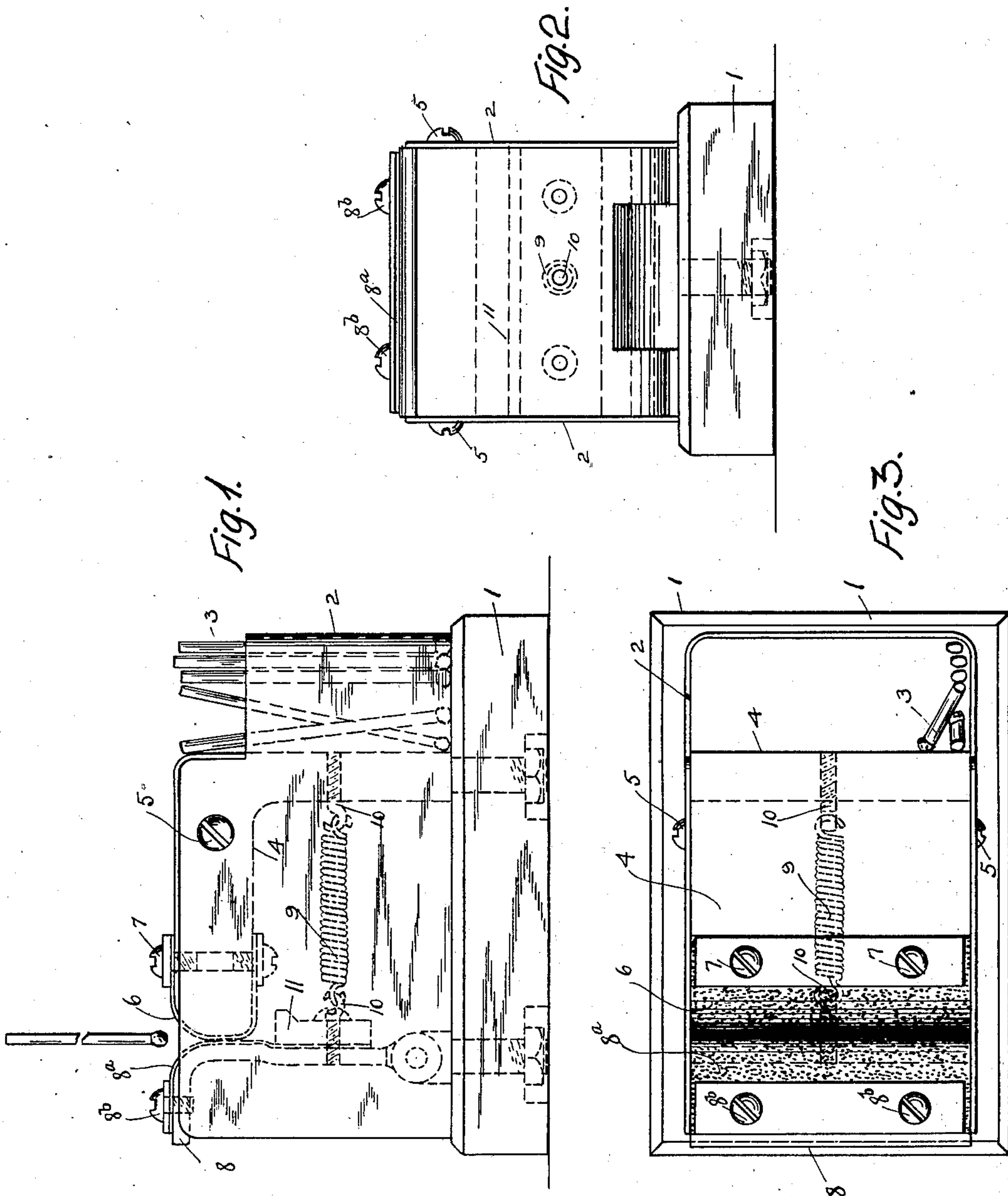


No. 728,989.

PATENTED MAY 26, 1903.

P. C. SCHMIDT.  
MATCH LIGHTER AND BOX.  
APPLICATION FILED JUNE 28, 1902.

NO MODEL.



Witnesses  
B. F. Sparr  
Hartwell P. Heath

Inventor  
Paul Curt Schmidt  
By his Attorney, J. R. Little



# UNITED STATES PATENT OFFICE.

PAUL CURT SCHMIDT, OF ELIZABETH, NEW JERSEY.

## MATCH LIGHTER AND BOX.

SPECIFICATION forming part of Letters Patent No. 728,989, dated May 26, 1903.

Application filed June 28, 1902. Serial No. 113,566. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL CURT SCHMIDT, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Match Lighters and Boxes, of which the following is a specification.

This invention relates to combined match boxes and lighting devices, and has for its object to provide a device of the class described which will possess points of advantage in convenience, simplicity, inexpensiveness, effectiveness, and general efficiency.

In my device the head of the match to be ignited is brought into positive contact with embracing frictional surfaces without danger of breaking the stick, (as in the ordinary process of scratching against a flat surface,) and ignition is insured in every case, as two sides of the match-head, as well as its point, are acted upon by a yielding frictional medium.

In the drawings, Figure 1 is a side elevation of a combined match box and lighter, showing parts in dotted lines. Fig. 2 is an end elevation of the same. Fig. 3 is a plan view of the same, showing parts in dotted lines.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, 1 illustrates a base, which may be of any suitable material and any desired form, but which is here shown as rectangular. A U-shaped casing 2 is mounted upon the base 1, the side parts of which casing are reduced at one end sufficiently to permit matches 3 when stood on their heads on the bottom of the casing to project above the sides of the casing 2. Forming the inner wall of the match-receptacle is an L-shaped bracket 4, which has one arm secured in the base 1 and is secured to the sides of the casing 2 in any suitable manner, herein shown as by screws 5. The outer end of the bracket 4 is provided with a suitable frictional surface 6, which is here shown as sandpaper, secured upon the ends of the bracket by screws 7.

A hook-shaped member 8 is pivotally mounted upon the base 1 and normally bears against the outer end of the bracket 4 at the outer curved portion of the hook 8. Tensional

means are provided for yieldingly pressing the hook-shaped member 8 against the bracket 4. In the form here shown such tensional means consist of a helical spring 9, the ends of which are secured upon hooks 10, secured, respectively, in the upright arm of the bracket 4 and the opposed surface of the hook-shaped member 8. The hook-shaped member 8 is also provided with an abutment 11, against which the heads of the matches are adapted to strike to prevent their being pushed too far down. The hook-shaped member 8 is provided upon the surface adjacent to the end of the bracket 4 with a frictional surface, which is here shown as sandpaper 8<sup>a</sup>, secured to the hook-shaped member 8 by having one end interposed between the abutment 11 and the hook-shaped member 8 and the other end secured by screws 8<sup>b</sup>.

It is evident that, if the head of a match be placed between the end of the bracket 4 and the hooked member 8 and pressed down and then withdrawn the passage of the head between the opposed frictional surfaces will cause its ignition.

The operation and advantages of my invention will be readily understood and appreciated. The matches 3 are stood upon their heads in the end of the casing 2, of reduced height, and when it is desired to use a match 3 it is only necessary to take it by the stick and press the head between the end of the bracket 4 and the hook-shaped member 8, the frictional surfaces which cover such end causing the ignition of the match as it is withdrawn. This secures positive contact of the head with the frictional surfaces and results in the ignition of the match upon a single insertion and withdrawal.

I do not desire to be understood as limiting myself to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement in the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements.

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

1. A combined match receptacle and igniter,



composed of a compartment for the matches, and an adjacent igniting device consisting of a fixed frictional surface and a yielding frictional member between which the head of the match is manipulated from the exterior, substantially as set forth.

2. A device of the class described, comprising a match-receptacle, one wall of which consists of the long arm of an L-shaped member and a pivoted member tensionally pressed against the end of the short arm of said L-shaped member, the contacting surfaces being covered by a friction-producing medium.

3. A device of the class described, comprising a base, a U-shaped casing mounted along the edges of one side upon said base, an L-shaped bracket having its long arm mounted upon said base at a suitable distance from the end of the casing and its short arm extending in the opposite direction from such end, and a member pivotally mounted on the base and yieldingly pressed against the end

of the bracket, the contacting surfaces being provided with a friction-producing medium.

4. In combination with a match-receptacle, a match-lighting device embodying an L-shaped bracket having its long arm fixed in a support and its short arm extended parallel to such support and provided at the end of its short arm with a friction-surface, a hook-shaped member pivotally mounted upon said base and normally bearing against the end of the short arm of said L-shaped bracket and provided with a friction-surface, and a spring normally drawing said hook-shaped arm against the end of said L-shaped bracket.

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

PAUL CURT SCHMIDT.

Witnesses:

ALBERT C. BENDER,  
LOUIS A. GRAFF.