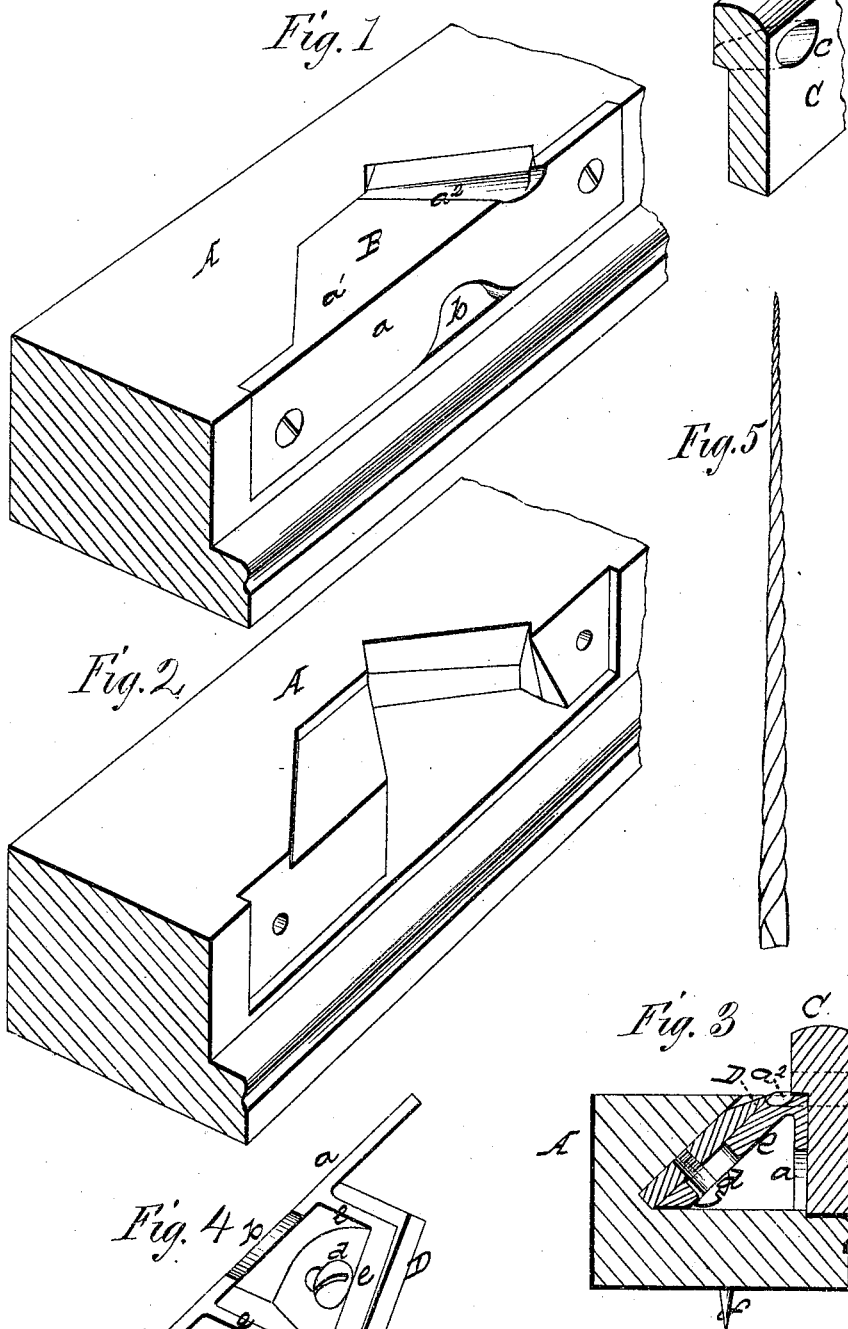


H. W. LILLY.

PLANES FOR CUTTING CIGAR LIGHTERS.

No. 181,582.

Patented Aug. 29, 1876.



Witnesses.
James Martin for
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UNITED STATES PATENT OFFICE.

HARRISON W. LILLY, OF PITTSBURGH, PENNSYLVANIA.

IMPROVEMENT IN PLANES FOR CUTTING CIGAR-LIGHTERS.

Specification forming part of Letters Patent No. **181,582**, dated August 29, 1876; application filed March 15, 1876.

To all whom it may concern:

Be it known that I, H. W. LILLY, of Pitts-
burgh, in the county of Luzerne and State of
Pennsylvania, have invented certain new and
useful Improvements in Planes for Cutting
Cigar-Lighters; and I do hereby declare that
the following is a full, clear, and exact descrip-
tion thereof, which will enable others skilled in
the art to which it appertains to make and use
the same, reference being had to the accom-
panying drawings, and to the letters of refer-
ence marked thereon, which form a part of this
specification, and in which—

Figure 1 is perspective views of the plane
and its detached guard, partly broken away.
Fig. 2 is a similar view of the stock, with the
iron and its metallic bed detached therefrom.
Fig. 3 is a transverse section of plane through
the iron and its guttered metallic bed. Fig.
4 is an inverted view of the metallic guttered
bed and iron; and Fig. 5 is the product or
shaving of my plane adapted for a cigar-light-
er, &c.

Corresponding parts in the several figures
are designated by like letters.

This invention relates to a certain improve-
ment in planes by which a curled tapering
shaving is made, suitable as a cigar-lighter,
&c.; and it consists of the combination, with
the iron, of a guttered metallic bed, adapted
for attachment to the stock and the iron to it,
substantially as hereinafter more fully set
forth.

In the annexed drawing, A refers to the
stock, its upper surface being the sole. Let
into the stock A is the metallic bed B of the
iron, having its vertical longitudinal portion
a screwed or otherwise secured to the stock,
and provided with an opening, b, to permit
of access to the adjusting-screw d of the iron
in regulating its cutting-surface. The hori-
zontal surface a' of the bed B is flush with

the sole of the stock A, and provided with a
diagonal gutter, a², alongside of the cutting-
surface of the iron, for the delivery, through
the orifice c in the guard C of the plane or
stock, of the curled tapering shaving formed
by the iron. The gutter a² is of a correspond-
ing shape with the shaving cut by the iron,
widening toward the orifice c in the guard C.
Upon the lower side of the bed or plate B is
a frame, e, tapering toward the converging
end of the iron, and also inclined upon its
upper surface, forming the bed proper, upon
which the iron is adjusted, as shown in Figs.
3 and 4. D is the iron. The stock A is pro-
vided with pointed projections f f, with which
to fasten it in place while the shaving or
lighter is being made, the strip or piece of
wood from which it is cut being passed over
the iron by the attendant. Through this con-
struction of bed the use of wedges and abut-
ments is dispensed with, and the tool simpli-
fied and cheapened.

Having thus described my invention, what
I claim, and desire to secure by Letters Pat-
ent, is—

1. The iron D, in combination with the bed
or plate B a', having the iron-bed proper e
and gutter a², substantially as and for the pur-
pose set forth.

2. The iron D and bed B e, having the gut-
ter a², in combination with the stock A and
guard C, having the orifice c, all constructed
to operate as shown and described.

In testimony that I claim the foregoing as
my own I hereunto affix my signature in pres-
ence of witnesses.

HARRISON W. LILLY.

Witnesses:

G. S. FERRIS,
GEORGE S. FERRIS,
JOSEPH HILEMAN.