J. W. Helder,

Bench Plane.

No. 106,694. Patented Aug. 23, 1870.

fig. 1.

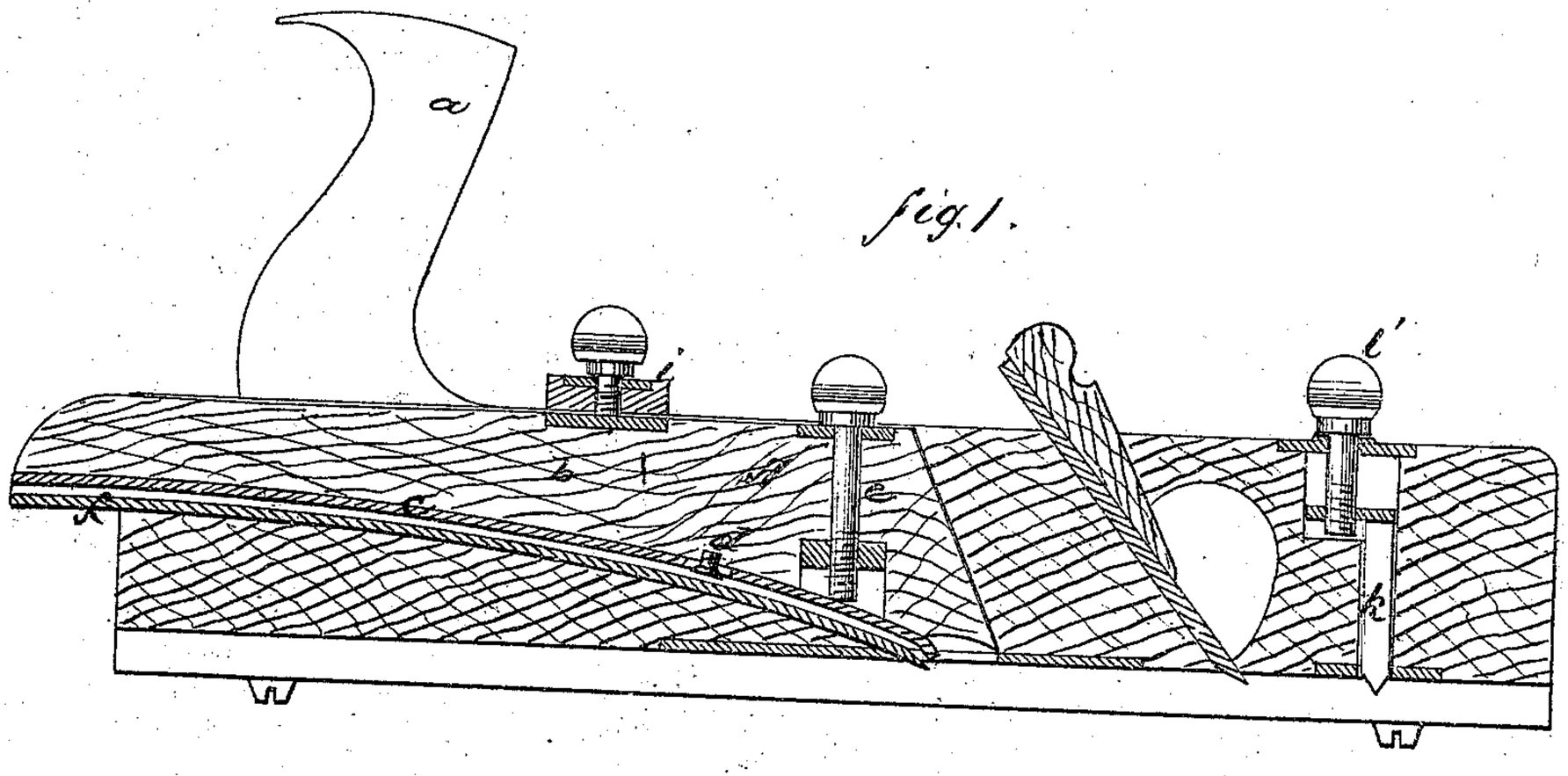
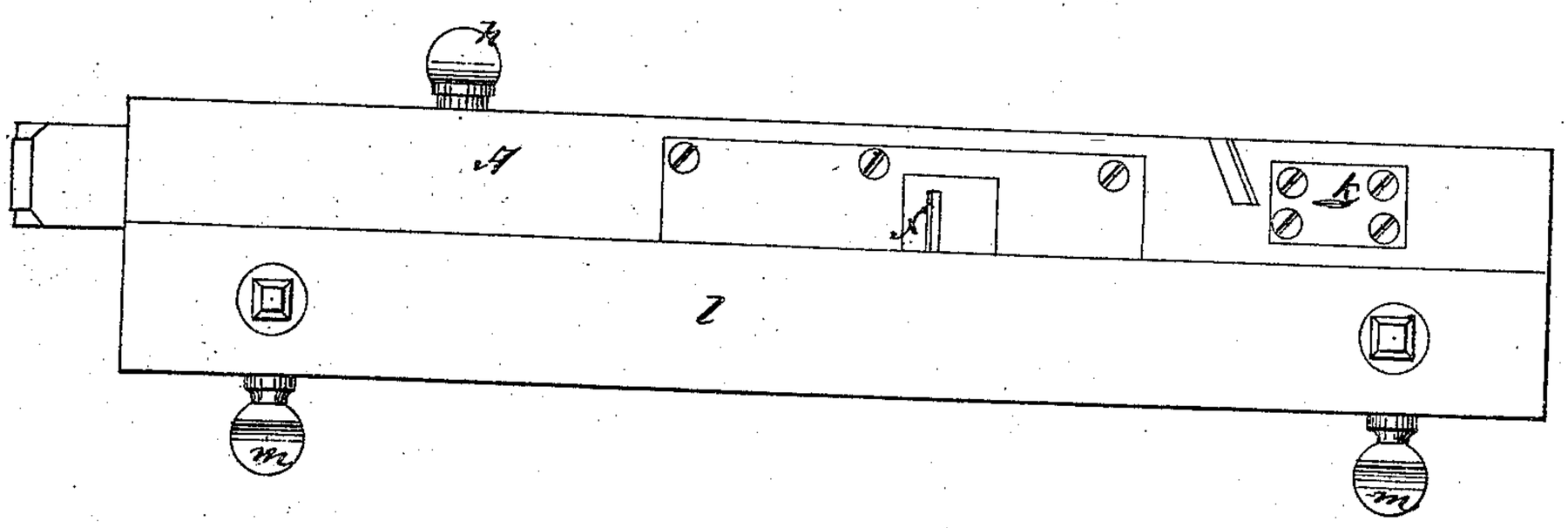


fig. 2.



Witnesses;

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JOHN W. HELDER, OF SHANNON, ILLINOIS, ASSIGNOR TO HIMSELF AND LUTHER TRESCOTT, OF SAME PLACE.

Letters Patent No. 106,694, *dated August* 23, 1870.

IMPROVEMENT IN MACHINE FOR CUTTING BLIND-SLATS.

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, JOHN W. HELDER, of Shannon, in the county of Carroll and State of Illinois, have invented a new and improved Machine for Cutting Slats for Window-Blinds; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which

Figure 1 is a sectional elevation, and

Figure 2 is a plan view of the under side of the machine.

This invention has for its object to cut from a piece of wood of any dimensions a splint or slat of the proper width and thickness, such slat passing off through the stock in the same way that shavings are conducted away in an ordinary plane.

In the drawing—

A is the stock.

a, the handle by which it is shoved.

b, a block, placed in a recess in the stock, said block being combined with a spring plate, *c*, sunk in a groove in its lower side, attached to the block by a set-screw, *d*, passing through a slot in the spring, and regulated at its front or lower end by a set-screw, *e*, passing downward through the block.

f is the knife that cuts off the splint, which knife lies on the bottom of the recess in the block *b*, its sharp end projecting below the bottom of the block, and a space being left between the knife and spring-plate *c* for the slat to pass through, the distance between the cutting-edge of the knife and the lower end of the spring-plate being regulated by means of a set-screw, *h*, passing through the side of the stock A and bearing against the knife, this arrangement enabling the operator to make the thickness of the splint according to his pleasure.

i is a plate, jointed to the top of the stock, and combined with a set-screw passing vertically through the plate *i*, by which the block *b* is held down when the plate *i* is turned over it, the block *b* being removable when the plate *i* is turned away from above it.

k is a knife, placed vertically in the stock A, forward of the knife *f*, and governed by a set-screw, *l*, by which the knife *k* may be made to project below the bottom of the stock A more or less, according to the thickness of the splint, the function of the knife *k* being to cut the board to the width of the slat.

l is a plate, attached to the bottom of the stock A, and rendered movable by means of set-screws *m m*, so as to regulate the width of the slat.

In cutting out slats the bottom of the stock is placed on the top of the board, the edge of the board being next to the edge of the plate *c*. The stock is shoved forward, the gauge *k* makes a seam in the board, and the knife *f* takes up the slat, which passes off between the knife *k* and spring plate *c*, the latter serving to prevent the slat from splitting as it passes out.

Having thus described my invention,

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

The splint-plane herein described, consisting of the stock A, block *b*, clamp *i*, plate *c*, cutter *f*, adjusting-screw *e*, adjustable guide-plate *l*, and gauge *k*, as and for the purpose specified.

JOHN W. HELDER.

Witnesses:

MATTHEW RIDDLE,

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